



*You Choose, We Do It*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
**St. Joseph's Group of Institutions**  
OMR, Chennai - 119



## **IQAC REPORTS**

**ACADEMIC YEAR: 2022-2023**




*You Choose, We Do It*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 (An Autonomous Institution)  
**St. Joseph's Group of Institutions**  
**Jeppiaar Educational Trust**  
 OMR, Chennai - 119.



**JUNE 2022**

**Department of Electrical and Electronics Engineering**

S.No	Events	Remarks
1.	 <p style="text-align: center;"><b>PIC: IEEE event poster</b></p>	<p>IEEE Women In Engineering AG under St. Joseph's College of Engineering Student Branch Chapter organized "MYSTERIOUS PLAY- A Riddle Competition" for School, Diploma and College students on 28th June 2022. The objective of the event is basically riddles can support one's problem solving, logic and critical thinking skills. The event was coordinated by Ms. Kaviya P and Ms. Ramya R . Around 45 students participated in this contest. Merit E-Certificates were provided to the Winners and Participation E- Certificates were provided to all the participants .</p>



2.



PIC: IEEE event poster

IEEE Women In Engineering AG under St. Joseph's College of Engineering Student Branch Chapter organized "DOODLE ART-An Art Competition" on behalf of international day against drug abuse and illicit trafficking for School, Diploma and College students on 28th June 2022. The participants made their art on drug abuse and illicit trafficking and uploaded their creations in the submission link . The event was coordinated by Ms. Ramya R and Ms. Kaviya P. Around 40 students participated in this competition. Merit E-Certificates were provided to the Winners and Participation E- Certificates were provided to all the participants .

3.



PIC: IEEE event screen shot

The IEEE Power Electronics Society of St. Joseph's College of Engineering has organized a "Distinguished Lecture Program" with Dr. Tobias Geyer who is an excellent speaker and has been working for 20 years in power conversion control with a particular focus on model predictive control and modulation. He received the Ph.D. in control theory and the Habilitation degree in power electronics from ETH Zurich. The event started with our SBC Counsellor Mr. R. Sreekanth giving a brief intro about PELS day and our PELS society Activities. Dr. Tobias then took over the session. The various types of Model Predictive drives, their Advantages over classical drives and Their applications were clearly explained by our speaker with a wonderful Presentation and Other simulations. After the explanation the speaker patiently answered all the participants' questions. Then as a Token of our Appreciation an E-memento was presented to the speaker. Then our PELS Chairperson Mr. Elanchezhian R J, Explained about the benefits and advantages of PELS Membership and he shared the coupon code for availing complimentary membership for the First time PELS membership. Finally the event ended with a memorable Photo session to capture this wonderful moment. The Session was really informative and Participants got to learn some new concepts in power electronics.

4.



PIC: IEEE event screen shot

The IEEE Power Electronics Society of St. Joseph's College of Engineering has organized the "PELS DAY OFFICIAL MEET" to gather PELS and SB members to discuss about the importance of PELS Day. The event started with discussion of future events to be done in IEEE PELS SJCE SB and also we invited all our SB members to discuss about how to promote our IEEE Pels SB branch, steps to be done to promote our SB PELS Branch society. And brief discussion about the plans and events to be conducted on PELS Day 2022. All our SB members have been involved in planning and execution for this PELS Day celebration. The event ended up with the group picture of IEEE SJCE SB members to celebrate Pels Day.

5.



PIC: IEEE event photo

The IEEE Power Electronics Society of St. Joseph's College of Engineering has organized the "PELS DAY PHOTO SESSION" to Celebrate the PELS DAY 2022. The session went on for two hours with creative photo poses. Main objective is to celebrate the PELS day hence goodies were shared, Banner of 6ftx4ft and Boards were made to show our pride of PELS SB. Brief intro about PELS and PELS photo contest was given to our SB Members. All our SB members have been involved in planning and execution for this PELS Day celebration. Our Members arrange themselves to Form the Word PELS.

6.

**St. JOSEPH'S COLLEGE OF ENGINEERING**
  
 (An Autonomous Institution)
   
**St. Joseph's Group of Institutions**
  
 Jeppiaar Educational Trust
   
 OMR, Chennai - 119.

**COUNSELLING CODE:1317**
  
 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Organises
   
**Photography**
  
 exclusively for 10<sup>th</sup>, 11<sup>th</sup>
  
 & 12<sup>th</sup> and Diploma
   
 students

**Date: 06-06-2022 to 11-06-2022**
  
**Themes**
  
 06-06-2022 Air Pollution
   
 07-06-2022 Water Pollution
   
 08-06-2022 Noise Pollution
   
 09-06-2022 Plastic Pollution
   
 10-06-2022 Soil Contamination
   
 11-06-2022 Light Pollution

- Take a snap shot on given themes and upload it in the given google form on each day
- All the participants will receive the E-certificate

Google Form Link : <https://tinyurl.com/43wef2pr>

**Chief Patron**
  
**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.
   
 Chairman, St. Joseph's Group of Institutions

**Patrons**
  
 Mrs. B. Jessie Priya M.Com., Managing Director, St. Joseph's Group of Institutions
   
**Dr. Vaddi Seshagiri Rao** M.E., M.B.A., Ph.D.
   
 Principal, St. Joseph's College of Engineering

**CONVENORS**
  
**Dr. Jayarama Pradeep** M.E., Ph.D.
   
 Professor & Head, Staff Affairs
   
**Dr. T.V. Narmadha** M.E., Ph.D.
   
 Professor & Head, Lab Affairs

**Staff Coordinator**
  
**Dr. M.Venmathi** M.E., Ph.D.
   
 Associate Professor

For Admissions: Visit: [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in)
  
 Contact: 9940104881 / 9940104882

PIC: school event poster

Our Department of EEE organized a Photography context on different types of pollution exclusively for the students of class X, XI, XII and diploma students from 6<sup>th</sup> June 2022 to 11<sup>th</sup> June 2022. The contest facilitated active participation of students from various schools of the state. Around 10 students from 6 different schools participated in this event. E-Certificates are distributed to the participants.

7.


**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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 28  
 Since 1994








Counselling Code : 1317

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Organises

# SUDOKU

**BOTH WORD AND NUMERICAL**

AVOID THE CROWD AND DO YOUR OWN THINKING INDEPENDENTLY

EVENT DATE : 13/06/2022 - 18/06/2022

		9	7	3		5	2	6
		5			2		8	
6		8					4	7
					9		6	2
		4		6	3			8
8	9		5					
2	6					1		8
		7		1		6		
9	5	1		6	4	2		

Exclusively for 11<sup>th</sup>,  
12<sup>th</sup> and Diploma  
students



Day 1 - Numerical Sudoku  
 Day 2 - Word Sudoku  
 Day 3 - Technology Crossword  
 Day 4 - Science Crossword  
 Day 5 - Nature Crossword  
 Day 6 - Jobs Crossword

Registration Link : <https://forms.gle/Zw8lYhzyuQUSDzRA>

**Chief Patron**  
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 Chairman, St. Joseph's Group of Institutions

**Patrons**

Mrs. B. Jessie Priya M.Com.  
Managing Director, St. Joseph's Group of Institutions

Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering

**Convenors**  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - Lab Affairs

Mr. B. Shashi Sekar M.Sc.  
Executive Director, St. Joseph's Group of Institutions

Dr. B. Parvathavarthini M.Sc., M.E., M.B.A., Ph.D.  
Dean, St. Joseph's College of Engineering

**Staff Coordinator**  
Dr. V. Krishnakumar M.Tech., Ph.D.  
Associate Professor

For Admissions: Visit: [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) Contact: 9940104881 / 9940104882

Our department organized a Sudoku event specially for school and polytechnic students on “both numerical and word” from 13.06.2022 to 18.06.2022. The event was really very challenging and useful to the students. Every day the event link has been posted in the registered E-mail/ Mobile number, test link remain open for 2 hours. E-certificates are distributed to those submitted the quick response with correct solution.

**PIC: school event poster**



8.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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Counselling Code :1317

Department of Electrical and Electronics Engineering presents

# CONNEXION

2022  
30<sup>th</sup> May  
to  
03<sup>rd</sup> June

MONDAY (30/05/2022) - Chemstrion  
TUESDAY (31/05/2022) - Physicion  
WEDNESDAY (01/06/2022) - Mathacion  
THURSDAY (02/06/2022) - Histrion  
FRIDAY (03/06/2022) - Biocion

Link to Connexion:  
<https://forms.gle/yx3zKq5nRgC7c9i6>

Exclusively for 10th, 11th and 12th students

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar Executive Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.A., Ph.D. Principal, St. Joseph's College of Engineering  
Dr. B. Parvathavarthini M.B.A., M.E., Ph.D. (Chartered Accountant), St. Joseph's College of Engineering

**Convenor**  
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Student Affairs  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs

**Staff Coordinator**  
Dr. N.Chidambaranaj M.E., Ph.D. Associate Professor

\*For Admissions, visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: (01) 99401 0488 / (01) 99401 0482.

PIC: school event poster

Our department organized a connexion event specially for school and polytechnic students on “chemistrion, physicion, mathacion, histrion and biocion” from 30.05.2022 to 03.06.2022. The event was really very challenging and useful to the students. Every day the event link has been posted in the registered E-mail/ Mobile number, test link remain open for 2 hours. E-certificates are distributed to those submitted the quick response with correct solution.

9.

Project Contest Innovations LLP,  
Spreading Innovations

IDEA EVENT 07 INDIA'S SCIENTIFIC SYMPOSIUM FESTIVAL (VIRTUAL)

INCUBATION PARTNERS SATHYABAMA Technology Incubator Director (Sathyabama)

**Certificate of Achievement**

This is to certify that **Dr. JAYARAMA PRADEEP, PROFESSOR** of ST.JOSEPH'S COLLEGE OF ENGINEERING is awarded as “Best Mentor” for mentoring the innovative project idea entitled **SMART ENERGY METER AND LOAD MONITORING OF INDIVIDUAL LOADS** during “SciFesta Volume 2 - Scientific Symposium” Organized by Project Contest Innovations LLP, on 12.06.2022.

Gautham Palanisamy Manager, Sathyabama TBI

Rajasekar Madhavan Founder & CEO, Project Contest Innovations LLP.

ECOSYSTEM PARTNERS: Techstars, Startup Weekend Greater Chennai, TrueLine Academic & Research Centre, Startup Garage, Wipro, Skills60, Digital Partner: Deemee

SCIV2ID27

www.projectcontest.com

PIC: Best mentor certificate

Our department head and professor Dr.Jayarama Pradeep awarded as “best mentor” for mentoring the innovative project idea entitled smart energy meter and load monitoring of individual loads during “scifesta volume 2 – scientific symposium” organized by project contest innovations LLP, on 12.06.2022.

**Fault Detection and Identification Strategy Based on Luenberger Observer for Bidirectional Interleaved Switched—Capacitor DC—DC Converter Interfaced Microgrids**B. S. Nalina<sup>1</sup> · V. Kamaraj<sup>1</sup> · M. Ramesh Babu<sup>2</sup>Received: 20 July 2021 / Revised: 28 February 2022 / Accepted: 17 March 2022  
© The Author(s) under exclusive licence to The Korean Institute of Electrical Engineers 2022**Abstract**

Faults in power electronic converters interfaced to renewable energy systems are caused due to malfunction of system components, short circuits in converters, commutation failures. These faults affect the performance of the system. Therefore, to improve the performance of the system, these faults have to be detected and identified. In this paper, fault detection and identification strategy are designed, analyzed both mathematically and experimentally based on the design of Luenberger observer. Two different types of filters are incorporated in the system which includes Fault Detection (FD) filter and Fault Identification (FI) filters. The design structures of both the filters are based on the design of Luenberger observer. Initially, the fault detection filters are activated to detect the availability of fault. Once the fault is identified, a set of fault identification filters are initialized to identify the type of fault. Each type of fault is determined by each filter in the set of fault identification filters. In this paper inductor fault, capacitor fault and switch fault are analyzed. The proposed strategy is verified on an Interleaved Bidirectional Switched Capacitor DC—DC converter interfaced to a solar powered Microgrid using theoretical and simulation results. Finally, a prototype is fabricated to validate the performance of the system.

**Keywords** Fault detection · Fault identification · Luenberger observer · Solar powered microgrid · Bidirectional interleaved switched capacitor DC—DC converter

**1 Introduction**

The performance and reliability of the system is very important which may be reduced by the component faults in the converter. The most common faults in power switches are Open Circuit fault (OC), Short Circuit fault (SC) and gating faults which is caused by incorrect gate voltage, driver failure, etc. [1]. The system operation is also affected by these types of faults in the converter [2]. Therefore, these faults should be quickly detected,

and the location of fault should be identified exactly [3]. Therefore, it is mandatory to design a process for Fault Detection and Identification. (FDI) strategy. There are two different types of FDI strategies (i) model-based and (ii) model free.

The model-based fault diagnosis technique [4, 5] was developed in 1970's. This technique has been used in many number of industrial applications and control systems which proved to be efficient. This technique involves mathematical knowledge and is dependent on the residuals and state equations and state observers [6, 7, 8, 9]. Though it is used in different applications, all the model-based fault diagnosis systems are same as it uses a process model. Various algorithms are implemented for the processing of data based on the process model which are observed and noted during the operation. There is always a relationship between the model-based fault diagnosis technique and the control theory. There are different types of model-based fault diagnosis strategies, out of which observer-based technique has received more attention among researchers [10]. This technique has been formed based on the advance control theory for observer design, suitable algorithms for processing of data that makes the system efficient. Model

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Published online: 23 May 2022

**PIC: paper screenshot**

Dr.M.RameshBabu published paper titled “Fault Detection and Identification Strategy Based on Luenberger Observer for Bidirectional Interleaved Switched – Capacitor DC-DC converter Interfaced Microgrids” in Journal of Electrical Engineering & Technology.

<https://doi.org/10.1007/s42835-022-01075-6>

Chapter 7

**Biomedical and Electronic Tune-Ups of 2C4NA Nanocrystalline Sample**J. Maalmarugan, A. Egbert Selwin Rose, P. Anbarasan, R. Poorani, N. Aarthi, H. Ganesan, K. Senthil Kannan  
✉ G. Flora

Book Editor(s):Kaushik Pal

First published: 15 June 2022 | <https://doi.org/10.1002/9781119858041.ch7>**Summary**

2-chloro-4-nitroaniline (2C4NA) crystalline sample is grown by a solution growth method; it is milled to nanoform of 46 nm. The computational effect of the molecular arrangement of 2C4NA is shown with the ORTEP diagram and unit cell, and the nanotubular form, dipeptide linkage, super cell lattice are portrayed in a wellmanner for 2C4NA crystals. The interactions for the finger print effect of 2C4NA are well portrayed. The 2C4NA have superior extent for anti-diabetic as a result of the aniline existence and have augments in inhibition as the value of the concentration enhances and the IC-50 value as 37.9 for macro and in nanoform, it is 30.3. Also, the AD-nm variations have good efficiency, whereas the dimension of the test decreases from 266 to 46 nm. The 2C4NA crystals are used in filter applications also as the data are represented and concluded with the inferences and reported with the utilities for electronic and pharma utilities and good FL data in nanoscaling and is used in anti-cancer and anti-inflammatory proviso and intrinbiology too.



Nanovaccinology as Targeted Therapeutics

**Keywords**

2 C 4 NA FL bio-use electronic theoretical

**Publication History**

Published Online: 15 June 2022

Published Print: 01 July 2022

**ISBN Information**

Online ISBN: 9781119858041

Print ISBN: 9781119857341

Dr.P. Anbarasan, published book chapter titled “Biomedical and Electronic Tune-ups of 2C4NA Nanocrystalline Sample” in the book Nanovaccinology as Targeted Therapeutics, Scrivener Publishing, Wiley, June 2022,

<https://doi.org/10.1002/9781119858041.ch7>

**PIC: paper screenshot**



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ENERGY SOURCES, PART A: RECOVERY, UTILIZATION, AND ENVIRONMENTAL EFFECTS  
2022, VOL. 44, NO. 2, 5455–5472  
<https://doi.org/10.1080/15567036.2022.2089299>



Check for updates

### An adaptive harmonic abatement in three-phase multilevel inverter topology with reduced switches using metaheuristic approaches for renewable energy applications

Anbarasan Palani , Krishnakumar Vengadkrishnan , Suresh Muthusamy , and Hitesh Panchal

<sup>a</sup>Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering, Chennai, India; <sup>b</sup>Department of Electronics and Communication Engineering, Kongu Engineering College (Autonomous), Perundurai, Erode, India; <sup>c</sup>Department of Mechanical Engineering, Government Engineering College, Patan, India

#### ABSTRACT

Renewable energy sources like solar, wind, and fuel cell are the medium sources of energy to produce high output power. The power electronics conversion in the renewable energy system is the significant drawback of poor-quality output due to its harmonic content and switching losses due to its increasing number of switching components. This article proposes a novel three-phase Multilevel Inverter (MLI) topology based on a series-parallel switched multilevel dc-link inverter configuration with a reduced number of switches that minimize the lower-order harmonics 3<sup>rd</sup>, 5<sup>th</sup>, and 7<sup>th</sup> using Selective Harmonic Elimination (SHE) based on the Particle Swarm Optimization (PSO) algorithm. The configuration also engages the Artificial Neural Network (ANN) to provide optimum switching angles for varying input voltages over a period, as in the case of renewable energy applications. The output of the MLI and its harmonic profile are examined in the MATLAB/Simulink platform. The hardware results are proven with the Xilinx-based FPGA Nexys-4 board that generates discrete pulses to the switches.

#### ARTICLE HISTORY

Received 18 January 2022  
Revised 7 June 2022  
Accepted 8 June 2022

#### KEYWORDS

Multilevel inverter;  
harmonics; selective  
harmonic elimination;  
Particle Swarm Optimization;  
artificial neural network

*PIC: paper screenshot*

**Criteria 1**

Dr.P.Anbarasan and Dr.V.Krishnakumar published paper titled “An adaptive harmonic abatement in three-phase multilevel inverter topology with reduced switches using metaheuristic approaches for renewable energy applications ” ENERGY SOURCES, PART A: RECOVERY, UTILIZATION, AND ENVIRONMENTAL EFFECTS 2022, VOL. 44, NO. 2, 5455–5472 <https://doi.org/10.1080/15567036.2022.2089299>

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International Journal of Electronics



ISSN: (Print) (Online) Journal homepage: <https://www.tandfonline.com/loi/tetn20>

### Investigation on Voltage Boosting Technique in Four Phase SR Motor Drive with Front End Converter

Indira Damarla & Venmathi Mahendran

To cite this article: Indira Damarla & Venmathi Mahendran (2022): Investigation on Voltage Boosting Technique in Four Phase SR Motor Drive with Front End Converter, International Journal of Electronics, DOI: 10.1080/00207217.2022.2068202

To link to this article: <https://doi.org/10.1080/00207217.2022.2068202>

*PIC: paper screenshot*

**Criteria 1**

Dr.Venmathi Mahendran, published paper titled “Investigation on Voltage Boosting Technique in Four Phase SR Motor Drive with Front End Converter” in International Journal of Electronics.

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एन एस आई सी  
N S I C

राष्ट्रीय लघु उद्योग निगम-तकनीकी सेवा केन्द्र  
THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.  
TECHNICAL SERVICES CENTRE

(भारत सरकार का उद्यम / A Government of India Enterprises)  
ई सी.ई.एल.एन.एस. रोड, कुशागुडा, हैदराबाद - 500062, तेलंगाना, भारत  
E.C.I.L.X Road, Kushaiguda, Hyderabad - 500062, Telangana, India.

क्रमांक / S.No. 189278

**E - CERTIFICATE** दिनांक / Date: 05/07/2022

प्रमाणित किया जाता है कि श्री / सुश्री / This is to certify that Mr. / Ms. R Elanthirayan  
सुपुत्र / सुपुत्री श्री / Son/Daughter of Mr. M T Ramalingam  
ने सफलतापूर्वक पाठ्यक्रम प्रशिक्षण पूरा किया है / has successfully completed training in the course of  
PV SYSTEM AND DESIGN  
दिनांक से / from 16/06/2022 तक / to 30/06/2022 and secured A2  
और निष्पादन मूल्यांकन के दौरान श्रेणी प्राप्त किया / grade during performance evaluation.  
उपरोक्त समयवधि के दौरान प्रशिक्षार्थी का व्यवहार अच्छा पाया गया।  
During the above period, the trainee's conduct was found Good.

प्रशिक्षण प्रमुख  
Head of Training

केन्द्र प्रमुख  
Head of Centre

PIC: Training certificate

Placement Details for month June 2022

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**Placement Record for the 2018-2022 Batch students as on 01/07/2022**

Total No of students placed = 141 UG &amp; 5 PG Students

Total No of Offers = 241 Offers

Total No of Eligible Students (UG) = 155

Total No of Eligible Students (PG) = 06

**Placement Record for the 2019-2023 Batch students as on 01/07/2022**

Total No of students placed = 26 UG Students

Total No of Offers = 26 Offers


Total No of Eligible Students (UG) = 160

Total No of Eligible Students (PG) = 06

Name of the Students	Company Placed	Total No of Offers
ABISHLAL N S	SOLITON	1
VIGNESH A	SOLITON	1
TINOJ D	ZOHO	1
ANANYA P	Mobiveil	1
ABINA S	Mobiveil	1
NIDHISH S	Mobiveil	1
ABINAYAA SRI T	AVASOFT	1
AJITH V	AVASOFT	1
AKSHAYA KRISHNEN	AVASOFT	1
BERTINA	AVASOFT	1
GODSON S V NOBLE	AVASOFT	1
KIRUTHIKA P	AVASOFT	1
LIFNY JOSE	AVASOFT	1
MARIA SHIRLEY	AVASOFT	1

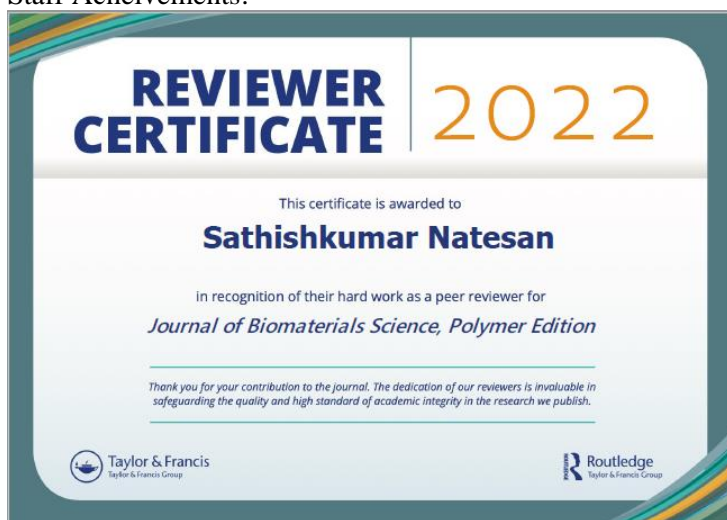
		JOHN L M		
		MOHAMMED AASHIK	AVASOFT	1
		NAITHRA B	AVASOFT	1
		PRAVESH CHRISTO GERARDE	AVASOFT	1
		RAJ IMMANUEL J	AVASOFT	1
		RANJITH	AVASOFT	1
		RISHAB S K	AVASOFT	1
		SHARAN MANIVANNAN	AVASOFT	1
		SRIVERSAN S	AVASOFT	1
		SWETHA B	AVASOFT	1
		THIRUVEL	AVASOFT	1
		AMARNATH J C	AVASOFT	1
		JEDIDIAH B	HCL	1

**DEPARTMENT OF MECHANICAL ENGINEERING**

SI No	Name of the Activity	Remarks		
1	 <p>Student Achievements:  <b>Team VELOC-E-RAPTOR</b> from third year mechanical secured <b>3<sup>rd</sup> Position in maneuverability and overall 8<sup>th</sup> position overall southern section.</b> The event was organized in Bannari Amman Institute Of Technology, Sathyamangalam by SAE INDIA, southern section.</p>	S.no	Register no	Name
		1.	312319114047	Ganesan. S
		2.	312319114060	Harshith Raj .I.K
		3.	312319114061	Hemanand .E. A
		4.	312319114083	Labib Mohammed Irshaad
		5.	312319114089	Manav Ajai
		6.	312319114100	Navin Sales Michael. J
		7.	312319114106	Pranav Narayanan
		<b>FACULTY MENTORS</b>		
		Mr. T. Balasubramanian., M.E., (Ph.D) & Mr. K.M. B. Karthikeyan., M.E., (Ph.D), Assistant Professors		



2 Staff Achievements:





1. Mr.N.Sathish kumar received **“Excellent Reviewer”** Recognition from **“Journal of Biomaterials Science, Polymer Edition”** .



**Department of Electronics and Instrumentation Engineering**

Sl. No.	Title	Detail					
1	<b>Webinar/ FDP Attended By Faculty</b>	S.No	Faculty Name	Date	Webinar /Fdp attended/ workshop	Conducting agency	No. of days
		1.	Dr. R. Sivakumar	27 - 29 June, 2022	Machine Learning concepts for modeling and control of nonlinear systems	Manipal Institute of Technology	3
2.	<b>PUBLICA TION/paten t/funded project/awar ds</b>	S.No	Faculty Name	Publication	Type	Date	
		1	Meena S	2022 6th International Conference on Intelligent Computing and Control Systems (ICICCS)	IEEE Conference	08.July.2022	

**Department of Information Technology**

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution															
1	 <p align="center">Certificate received through online FDP</p>	<p align="center"><b>Online FDP Attended by Faculty</b></p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Title of the topic</th> <th>Name of the Staff</th> <th>Conducted By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Java Full Stack Top Up</td> <td>Kripa Sekaran</td> <td>Wipro</td> <td>13-06-22 to 24-06-22 (10 days)</td> </tr> <tr> <td>2.</td> <td>One Week FDP on Augmented &amp; Virtual Reality with Data Science</td> <td>Dr. D Logeshwari Dr. P. Thilagavathi</td> <td>Department of EXTC and CSE, P.R.Pote Patil College of Engineering and Management in association with PANTECH E Learning, Chennai</td> <td>6-06-2022 to 11-06-2022 (5 days)</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	Java Full Stack Top Up	Kripa Sekaran	Wipro	13-06-22 to 24-06-22 (10 days)	2.	One Week FDP on Augmented & Virtual Reality with Data Science	Dr. D Logeshwari Dr. P. Thilagavathi	Department of EXTC and CSE, P.R.Pote Patil College of Engineering and Management in association with PANTECH E Learning, Chennai	6-06-2022 to 11-06-2022 (5 days)
S.No	Title of the topic	Name of the Staff	Conducted By	Date													
1.	Java Full Stack Top Up	Kripa Sekaran	Wipro	13-06-22 to 24-06-22 (10 days)													
2.	One Week FDP on Augmented & Virtual Reality with Data Science	Dr. D Logeshwari Dr. P. Thilagavathi	Department of EXTC and CSE, P.R.Pote Patil College of Engineering and Management in association with PANTECH E Learning, Chennai	6-06-2022 to 11-06-2022 (5 days)													
2	 <p align="center"><b>V. Muthulakshmi</b> published paper in <b>Annexure I (Impact Factor: 1.027)</b></p>	<p><b>V. Muthulakshmi, R. Radhika and G. Kalpana, “Radial Restricted Boltzmann Machines with Functional Neural Network for Classification of the Fake and Real News Analysis”, International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, Publisher: World Scientific Publishing, Print ISSN: 0218-4885, E ISSN: 1793-6411, <a href="https://doi.org/10.1142/S0218488522400025">https://doi.org/10.1142/S0218488522400025</a>, Vol. 30, No. Supp01, 2022. (Impact Factor: 1.027, Annexure I, SCI Expanded)</b></p> <p><b>Abstract:</b> News methods are the main source of news for people around the world. However, there was a surprising rise in social media spread in later periods due to the significant increase in technology and updates. Fake news is as old as the news industry - misinformation, hoax, propaganda and satire have been around for a long time. So fake news is untrue and false information without proper evidence. Auto-detection technology is being built and studied on artificial intelligence and deep learning to address fake news’s rise and spread. This method’s efforts have been made to automate the process of fake news detection. This existing machine learning method has less classification accuracy, and multiple combination Machine learning methods have not consumed memory usage; it provides a higher false rate. Overcome this problem by introducing a deep learning method, namely Radial Restricted Boltzmann Machines with Functional Neural Network (R2BM-FNN), to reduce memory usage from a large set of training data. Initially, to apply the Count Victories distribution for data preprocessing to remove the stop words and unrelated text from data sets. In this proposed method neural network to train the neurons with the help of stochastic gradient descent. This proposed GRU-RLU method results in classification accuracy, precision, sensitivity, specificity, and execution time to evaluate system performance.</p>															

## Department of Science

<b>Sl. No.</b>	<b>Events</b>	<b>Remarks</b>
1	<b>FDP/Workshop/Conference</b>	1. Dr. N. Punitha attended National FDP on Faculty Development Programme on “Advance Computational and Experimental Research in Physics” conducted by “SRM Institute of Science and Technology, Ramapuram” from 20.06.22 to 27.06.22 2. Dr. P. Saravanan, attended International E-conference on “Recent Trends in Smart Materials” conducted by “Kings College of Engineering, Thanjavur” on 25.06.2022.
2	<b>Publications(only published) details</b>	1)Dr. P. Krishnan has published a paper titled “Green synthesis of nickel oxide nanoparticles using Mussaenda philippica extract for biological applications” in Journal of Nanostructures” (Article ID: JNS-2112-2433)

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### 1. Events conducted:

The following events have been conducted during June 2022 at National Level

i). Institution's Innovation Council-Ministry of MHRD Initiative	Details
<b>1. Shafaras J - IV C</b> <b>2. Sethuraman B - IV C</b> <b>3. Suryaprakash N - IV C</b>  <b>Received a grant of Rs. 12,00,000 for Business Model Development in MSME IDEA HACKOTHAN 2022</b>	<b>Project Title:</b> E- SAPS Electric Shock Accident Prevention System <b>Mentors:</b> <b>Category: Power</b> <b>Dr. P. Ezhilarasi – HoD Lab Affairs</b> <b>Dr. Rajesh Kannan – Associate Professor, Department of ECE</b>

### 2. Publications:

S. No.	Name of the Staff	Title of the Publication	Journal/Conference	Date & Year of Publication	Indexing
1.	Dr. R Avudaiammal	Hybrid ML Modeling for MBI Based Building Detection from Satellite Imagery	GIS Science Journal, Vol.9(5), pp.664-675	May 2022	Scopus

### 3. FDPs Attended:

The following staff members have attended FDP during May 2022 at National/International Level

S. No.	Name of the Staff	FDP Title with Details	Venue	Duration	Date
1.	Dr. R Avudaiammal	Mathematical and Statistical approach to Data Science, Machine Learning and Natural Language, organized by E & ICT Academy, NIT Warangal in association with St. Joseph's College of Engineering, Chennai	Online	10 Days	16.5.22 - 26.5.22
2.	Dr. B Victoria Jancee	Arduino and Android APP Using Kotlin	online, IIT Bombay	2 days	7/5/2022 and 9/5/2022
3.	Dr. J Martin Leo Manickam	Arduino and Android APP Using Kotlin	online, IIT Bombay	2 days	7/5/2022 and 9/5/2022
4.	Dr. R Avudaiammal	Arduino and Android APP Using Kotlin	online, IIT Bombay	2 days	7/5/2022

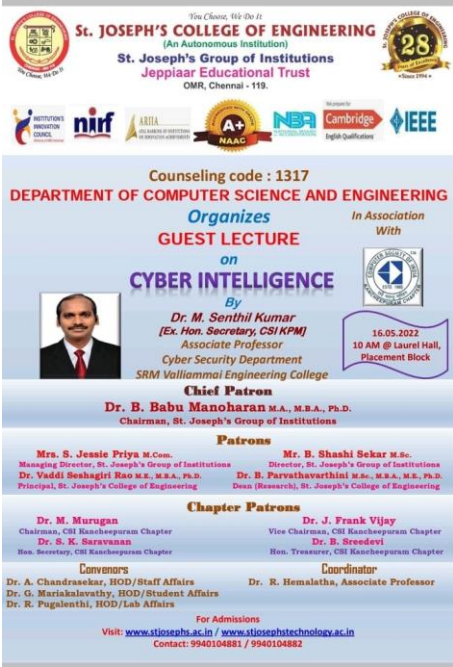
						and 9/5/2022
5.	Dr. I Johnsi Stella	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
6.	Dr. A Swarnalatha	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
7.	Dr. S Aghalya	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
8.	Dr. P Ezhilarasi	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
9.	Dr. Shirley Selvan	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
10.	Dr. S Rajeshkannan	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
11.	Dr.D.Lakshmi	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
12.	Mrs.E Malarvizhi	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
13.	Mrs.P.Thenmozhi	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
14.	Mrs.G.Anitha	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
15.	Mrs.P.Elaveni	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022
16.	Mrs.S.Devi Priya	Arduino and Android APP Using Kotlin	online,IIT Bombay	2 days		7/5/2022 and 9/5/2022

Prepared By,

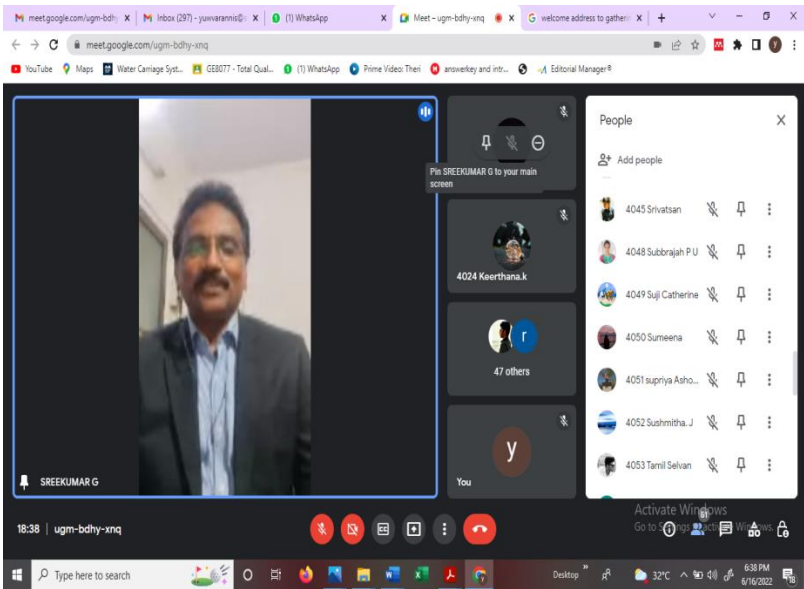
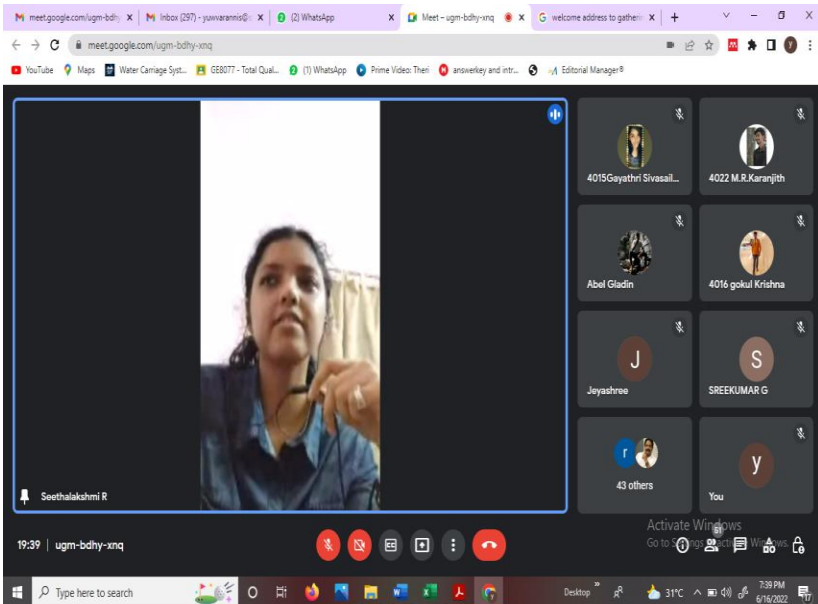
P



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	<p style="text-align: center;">Guest Lecture on Cyber Intelligence</p> 	<p>Date : 16.05.2022            Venue : Online            Nature of Event : Bridge Course            Participants : CSE Students            Guest Speaker : Dr.M.Senthil Kumar :            Associate Professor            Department of Cyber Security            SRM Valliammai Engineering College</p> <ul style="list-style-type: none"> <li>• <b>Objective:</b> <ul style="list-style-type: none"> <li>• To get exposure in cyber security</li> <li>• How to use and protect our electronic gadgets from cyber attacks</li> <li>• Ways of cyber attacks</li> <li>• Tools for protecting cyber attacks</li> </ul> </li> </ul> <p><b>Outcome:</b></p> <ul style="list-style-type: none"> <li>• Gained knowledge about the fundamentals of cyber security</li> <li>• The tools used for protecting our gadgets from cyber attacks</li> <li>• How to act if there is a cyber-attack occurred</li> </ul>

## DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p><b>GUEST LECTURE</b></p>  <p><i>Introduction Talk by Dr. G. Sreekumar, Head of the Department</i></p>  <p><i>Ms. Seetha Lakshmi (Alumni Batch 2014-2018)</i></p>	<ul style="list-style-type: none"> <li>• <b>Alumni mentoring meet for ZIFO placement</b> was conducted on 16.06.2022 at 6.30 PM through online mode. The online meet was planned in view of addressing the current third year students (2019-2023 Batch students) for the tips towards attending ZIFO placement with reference to various rounds in clearing the interview process. The Biotech alumni who were already placed in ZIFO had shared their own experience faced in the interview process during pandemic lockdown and new normal mode of assessment.</li> <li>• The Alumni were <b>Ms. Abel Gladin, Ms. Pavithra (Batch : 2018-2022), Associate Analyst and Ms. Seetha Lakshmi (Batch 2014-2018), Lead Quality consultant.</b> The experience shared by the alumni was very much useful for the 3<sup>rd</sup> year students to face the interview process with more confidence</li> </ul>

## VALUE ADDED COURSES



*Animal Handling training to M tech Students*

2.



*Animal Handling training to M tech Students*

- The students from **M.Tech Biotech (I st PG - 2 nd PG - )** have undergone value added training in animal handling and drug admiration. The training has been conducted on 16.06.2022 by expert team from **C L Baid Metha College of Pharmacy, Chennai**. This training would be useful for the students in performing experiment pertaining to clinical trails of studies in drug discovery process.

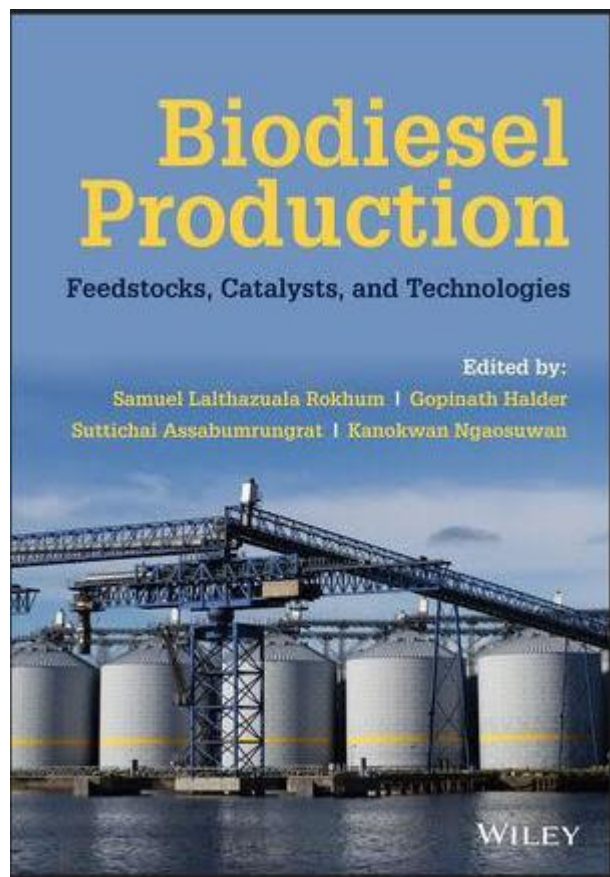
3.

## PUBLICATIONS(ONLY PUBLISHED) DETAILS

- **Dr. M. Chamundeewari** has Received a &quot;Certificate of Reviewer&quot; from Agronomy of Research Journal, Estonian Agricultural University on June 2022
- Published a book chapter titled "Biodiesel Production



*Dr. M. Chamundeeswari copy of certificate*




*Dr. G. Baskar and Ms. B. Sangeetha copy of coverpage*

Using Ionic Liquid-Based Catalysts" in the book named 'Biodiesel Production: Feedstocks, Catalysts, and Technologies'. *B. Sangeetha and G. Baskar, Chapter 13: Biodiesel Production Using Ionic Liquid-Based Catalysts*", Pages 249 - 267, May 2022, Edited by Dr. Samuel Lalthazuala Rokhum, Prof. Gopinath Halder, Prof. Suttichai Assabumrungrat, Assoc. Prof. Kanokwan Ngaosuwan, John Wiley & Sons Ltd., Online ISBN:9781119771364

DOI:10.1002/9781119771364



4.	<b>FUNDED PROJECTS</b>	-
5.	<p style="text-align: center;"><b>STAFF CONFERENCE PRESENTATION</b></p>  <p style="text-align: center;"><i>Dr. M. Chamundeeswari, Ms. S. Yuwvaranni and Ms. B. Sangeetha - copy of certificate</i></p>	<ul style="list-style-type: none"> <li>• <b>Dr. M. Chamundeeswari, Ms. S. Yuwvaranni and Ms. B. Sangeetha</b>, Presented and received Best paper award in a conference entitled as, "ZnO-Starch Nanocomposite "An Antimicrobial spray in solid sanitary pads disposal" , Bio-prospecting and Biotechnology" - HAPTEN 2022 organised by Department of Biotechnology, Arunai Engineering College, Tiruvannamalai , Chennai on 9 th and 10 th June 2022</li> <li>• <b>Ms.Yuwvaranni.S and Dr. Chamundeeswari. M</b> has presented a technical paper titled " Synthesis and Toxicity Assessment of Iron nanoparticle from herbal extract" in an AGRO International Conference on Agriculture, Azerbaijan State Agrar University, Baku, Azerbaijan, Held on 4-6 th June 2022.</li> </ul>






*Ms. S. Yuwvaranni - copy of certificate*



*Dr. M. Chamundeewari - copy of certificate*

**DEPARTMENT OF MATHEMATICS AND ENGLISH**

Events	Remarks						
<b>FDP/Workshop/Conference</b>							
	<b>Conferences – Paper Presentation</b>						
	S.No	Name of the Staff	Program Title	National/ International	Title of the Paper	Organized by	Date
	1	Dr.P.Agilan	International Conference on Mathematical Analysis and Applications (ICOMAA - 2022)	International	Existence, Uniqueness, and Stability Analysis of the Complex-Valued Functional Equation in Banach Space	University of Kalyani, West Bengal.	2 28-06-2022 To 29-06-2022
	<b>Conference attended</b>						
	S.No	Name of the Staff	Program Title	National/ International	Organized by	Date	
1	Dr.V. Vallinayagam	International Conference on Mathematical Analysis and Applications (ICOMAA - 2022)	International	Existence, Uniqueness, and Stability Analysis of the Complex-Valued Functional Equation in Banach Space	University of Kalyani, West Bengal.		
<b>Symposium</b>	-						

	S.No	NAME	BRANCH & SEC	NAME OF THE EVENT	Organising College Name	PRIZE DETAILS
<b>Awards/Prize won by students</b>	1	NAVEEN M.K	I-CSE B	BUGSMASG	PINNACLE'22 Easwari Engineering College	I
	2	ANTONY REX ANGLEO A.B	I-CSE A			
	3	ASHWIN M	I-CSE A			
	4	AMBRISH B	I-CSE A	CONNEUXS		II
	5	ABUL HASAN A	I-CSE A	SHOOT THE BUG		III
	6	HARI PRASAD S	I-CSE A			
	7	MANIKANDAN N	I-CSE B			
	8	DHANUSH S	I-CSE A	BRAIN SQUEEZER		III
	9	YOGESWARI J	I-IT C	PAPER PRESENTATION		CONVERGENCE'22 Sairam Engineering College 09.06.22
<b>Publications(only published) details</b>	<ol style="list-style-type: none"> <li>1. Dr. K. Abinaya, Neurolinguistic Approach to Fostering Writing Skills: An Intervention Research, NeuroQuantology, Vol. 20 (6), page 8261-8272, June 2022. SCOPUS, DOI : <a href="https://doi.org/10.14704/nq.2022.20.6.NQ22819">https://doi.org/10.14704/nq.2022.20.6.NQ22819</a></li> <li>2. Dr. Juliet Raja, Symmetric Difference Operator in Quantum Calculus, Symmetry, Vol. 14 (1317), Page 1-22, June 2022, SCIE,SCOPS, DOI : <a href="https://doi.org/10.3390/sym14071317">https://doi.org/10.3390/sym14071317</a></li> </ol>					

## DEPARTMENT OF MBA

### FACULTY PUBLICATION(Only Published)

- Dr. Jayasree Krishnan – “ Antecedents of Purchase intention- A Study on Fashion Brands” in International Journal of Applied Management Science, June 2022, Vol14 No2, Page 171-182.
- Dr.Sampath K. – “ Impact of Oil Price on Stock Market Prices using Generalised Auto Regressive Conditional Heteroskedasticity (GARCH) Model” in Journal of Algebraic Statistics, June 2022, ISSN 1309-3452, Volume 33, Issue 02, Page 2724-2728.

### WORKSHOP/FDP/STP/CONFERENCE / SEMINAR ATTENDED BY FACULTY:



- Ms. Jebakerupa Roslin & Dr. R.Karhick have attended 7 days virtual FDP on “ Best Practices for Next Gen Teachers” from 30.05.2022 to 07.06.2022 organised by Department of Business Administration, SRM Institute of Science and Technology. Ramapuram Campus, Chennai.
- Mr.S. Aravinth, Dr.S.P.Karuppaiah and Dr.K.Sampath have attended one week national level e-PDP on “Business Analytics: A changing way for organisation” , organised by The College of Management, SRM IST, Ramapuram Campus, Chennai from 20.06.2022 to 28.06.2022.

## DEPARTMENT OF CIVIL ENGINEERING

<b>Sl. No.</b>	<b>Photographs Captured During Events (Briefs About the Photographs)</b>	<b>Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating</b>
1.	<b>Publications (only published) details</b>	<ul style="list-style-type: none"><li>● Dr.K.Vijai has published a paper titled “ Strength, durability, and microstructural properties of Geopolymer Concrete : A Review” in Indian Concrete Journal June 2022 issue. pp 41-58 (<b>Scopus Indexed</b>)</li></ul>





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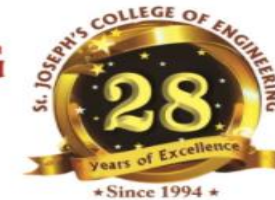
# St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. Joseph's Group of Institutions

Jeppiaar Educational Trust

OMR, Chennai - 119.



## JULY 2022

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	FDP on Machine Learning and Predictive Analysis using Python	<p>Date : 11.07.2022 – 15.07.2022  Venue : Online  Nature of Event : Faculty Development Programme  Participants : Engineering Faculties  Organized by : NITTTR, Chanigarh</p> <p>• <b>Objective:</b></p> <ul style="list-style-type: none"> <li>• To get exposure in Machine Learning concepts</li> <li>•</li> </ul> <p><b>Outcome:</b></p> <ul style="list-style-type: none"> <li>• Gained knowledge about the fundamentals of cyber security</li> <li>• The tools used for protecting our gadgets from cyber attacks</li> <li>• How to act if there is a cyber-attack occurred</li> </ul>

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


### 1. Publications:

The following staff member have published research paper in the month of July at International Level

S. No	Name of the Staff	Title of the Publication	Journal/Conference	Date & Year of Publication	Indexing
1.	Mrs.P.Thenmozhi	Robotic Process Automation For Managing Patient Records	AICTE Sponsored International Conference on "Emerging Innovative Technologies in Engineering"	13/7/2022	Presented and publication is in progress

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Description about the various activities undertake and corresponding remark on its status of execution

S.No	Events	Remarks
1.	 <p style="text-align: center;"><b>PIC: IEEE event poster</b></p>	<p>Our IEEE Women In Engineering AG under St. Joseph's College of Engineering Student Branch Chapter organised “ WOMEN’S FORUM - Session 8” on behalf of IEEE WIE 25th Anniversary Celebration for School, Diploma and College students on 28th July 2022. The topic of the webinar was” Utilizing technical knowledge to make a difference as an engineer “.The speaker for the webinar was” Ms.Jeewika Ranaweera .She discussed the different career prospects in the engineering field. Around 55 participants participated in this webinar ..E-Certificates were provided for all the participants.</p>

2.

You Choose, We Do It!

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
**St. Joseph's Group of Institutions**  
Jeppiaar Educational Trust  
OMR, Chennai - 119.

Counselling Code : 1317  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ELECTR/CAL CLUB    Robotics CLUB    Social Awareness CLUB    ENSAV CLUB

Presents  
**Clubs Mega Project Carnival**  
Sponsored by  
**AICTE "SPICES"**

31<sup>st</sup> May 2022  
Total Prize Amount ₹ 20,000

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**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.  
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**Dr. T.V. Narmadha** M.E., Ph.D.  
Professor & Head - Lab Affairs

Club Coordinators  
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**Ms. S.P. Vedavalli** M.E., (Ph.D)    **Ms. S. Gomathi** M.E., (Ph.D)    **Mr. Balasubramanian V** M.E., (Ph.D)    **Mr. A. Sadeeshkumar** M.E., (Ph.D)    **Mr. S. Siyakumar** M.E.,

\*For Admissions: Visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or Contact: 9940104881 / 9940104882

PIC: clubs project carnival poster

The Department of Electrical and Electronics Engineering of St. Joseph's College of Engineering, Chennai organized the "Clubs Mega Project Carnival 2022" event sponsored by the AICTE "SPICES" on 31.05.2022. Students of the Second and Third Years of the Department of EEE brought out innovative Project hardware. There were 50 teams segregated under Electrical Club, Choppers Club, Robotics Club, Social Awareness Club, and the Ensav Club. Based on their innovation and explanation the juries judged them and the below-listed winners were shortlisted. The entire event was coordinated by Club in charges, Department of Electrical and Electronics Engineering of St. Joseph's College of Engineering.

Name of the Club & No. Teams	I Prize : Rs. 1200/-	II Prize:Rs. 800/-
	Name(s) of I Prize Winners	Name(s) of II Prize Winners
Electrical Club (10 Teams)	MUGUNDHAN M. JAYACHANDRAN T. POORNAVIKASH M. KATHIRAVAN	J. YAVANESH T.H. ARISHUDAN R. RAMYA
	II Year	II Year
Choppers Club (10 Teams)	RAMYA SHIV KUMAR ESHWAR VISHNU PRIYA RAM PRASATH	A. GOKUL R. GOKUL KUMAR M. ARISHKUMAR G. APARNA
	II Year	II Year
Robotics Club (10 Teams)	R. KABILAN T. JOSHWA D. RAGU J. RAJ IMMANUEL	K. POOJASREE R.HUDHAYARITHIGA
	III Year	II Year
Social Awareness Club (10 Teams)	SANTHOSH CHAKKARAVARTHY SHRUDHURAG KRISHNA V.M. SRUTHI X. ROMY JENIT	AKSHAYAKRISHNEN AYESHA PRAVEEN HEMA APSARA JAYA VARSHINI
	III Year	III Year
EnSav Club (10 Teams)	T. ABINAYAA SRI N.S. ABISHLAL A. JENIN BENADICT S. MOHAMED AASHIK	V. VISHAL D.THIRUVIKARAMAN D. WESLY S. RITHIK NANDHAN
	III Year	III Year

3.

RESOURCE PERSONS	
1	Dr. R. Lal Raja Singh, Professor / EEE, ISTE Tamilnadu Section Managing Committee Member KIT – Kalaignar Karunanidhi Institute of Technology (Autonomous)
2	Dr. S. Albert Alexander, Associate Professor / EEE, Kongu Engineering College, Perundurai.
4	Dr. M. Ramesh Babu, Professor / EEE, St. Joseph's College of Engineering (Autonomous), Chennai.
5	Dr. T. D. Sudhakar, Professor / EEE, St. Joseph's College of Engineering (Autonomous), Chennai.
6	Dr. V. Chamundeswari, Associate Professor / EEE, St. Joseph's College of Engineering (Autonomous), Chennai.
7	Mr. M. Pradeep, Senior Engineer, Power Projects, Chennai.
8	Ms. R. Johnnie Hepziba, Senior Power System Analyst, JEF Techno Solutions Pvt Ltd

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**PATRONS**  
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Managing Director, St. Joseph's Group of Institutions  
Mr. B. SHASHI SEKAR, M.Sc.,  
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Dean (Research), St. Joseph's College of Engineering

**CONVENOR**  
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Dr. T. V. Narmadha M.E., Ph.D.,

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Mr. R. Elanthirayan, M.Tech., (Ph.D.),

**CO-COORDINATORS**  
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Mr. H. Prasad, M.E., (Ph.D.),

*For Further Correspondence Contact*  
The Coordinator  
Department of EEE  
St. Joseph's College of Engineering,  
OMR, Chennai 119, Tamilnadu.  
Mobile :- +91 98426 42645  
+91 96004 72478.

**BANK DETAILS**  
Account Name :  
St. JOSEPH'S COLLEGE OF ENGINEERING  
IEEE STUDENT CHAPTER  
Account No: 983699316  
IFSC Code : IIDE0001037  
Bank Name : INDIAN BANK  
Branch : JEC Semmencherry

**ISTE**  
One Week  
**Short Term Training  
Program (STTP) Under ISTE**  
On  
**Opportunities, Scope and  
Challenges in DC  
Microgrids**  
04<sup>th</sup> to 08<sup>th</sup> July 2022

**COORDINATOR**  
Dr. T. D. Sudhakar  
Mr. R. Elanthirayan

Organized by  
Department of  
Electrical and Electronics Engineering  
St. Joseph's College of Engineering  
St. Joseph's Group of Institutions  
OMR, Chennai -119  
http://www.stjosephs.ac.in

**PIC: STTP pamphlet**

The Department of Electrical and Electronics Engineering of St. Joseph's College of Engineering organized the one week Short Term Training Program sponsored by the ISTE from 04/07/2022 to 08/07/2022. This STTP aims to promote the exchange of information concerning innovation, R&D and deployment of power electronic and other necessary components and solutions. The focus is on medium voltage DC distribution and conversion with some carefully selected presentations that are addressing also low and high voltage DC technology.

Number of attendees : 45

STTP Title : Opportunities, Scope and Challenges in DC Microgrids

4.

St. JOSEPH'S COLLEGE OF ENGINEERING  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
OMR, Chennai - 119  
Counselling Code : 1317

ARHA  
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A+  
nirf  
Cambridge

IEEE  
SBC Advisor  
Staff Coordinators

மீன் மற்றும் மின்னணு பொறியியல் துறை  
**IEEE SJCE SB மாணவர் மன்றம்**  
பெருமையுடன் வழங்கும்  
**கற்க கசடற '22**  
— ஒரு சொற்பொழிவு நிகழ்வு —

தாய்.ராசி.ஜெகதீஸ்வரன்  
நிறுவனர், தாய் தொண்டு மையம்  
நிகழ்ச்சி தேதி: 22.07.2022 | நேரம்: 06:00 p.m.  
தலைப்பு: வள்ளுவரும் நம்பிக்கையும்  
நிகழ்வு இணைப்பு: <https://meet.google.com/gdv-dxcv-bhd>  
— பங்கேற்பாளர்கள் அனைவருக்கும் மின் சான்றிதழ்கள் வழங்கப்படும் —

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**SBC Advisor**  
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Professor & Head, EEE Dept.

**Staff Coordinators**  
Mr. R. Sreekanth M.E., Ph.D.,  
Assistant Professor

**Student Coordinators**  
Mani Sha N | Jayasruthi R V | AkshayaKrishnan | Amirtha Varshini M | Godson S V Noble

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Dean Student Affairs, St. Joseph's College of Engineering

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**PIC: IEEE event poster**

Our IEEE SJCE Student Branch Chapter under St. Joseph's College of Engineering Student Branch Chapter organised "KARKA KASADARA-A Online Webinar" for School, Diploma and College students on 22th July. The primary objective of this event is to honour the Tamil language, convey its significance to everyone, and inspire pride in one's mother tongue. This entire event took place in Tamil Language. Around 45 students participated in this event. Participation E-Certificates were provided to the all the Participants.



5.

 **St. JOSEPH'S COLLEGE OF ENGINEERING**  
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 28  
YEARS  
OF  
ESTABLISHMENT  
1994

**Counselling Code : 1317**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organises

**Guest Lecture on**  
**MAJOR OPPORTUNITIES PREVAILING IN**  
**ELECTRIC VEHICLES**

**RESOURCE PERSON**  
**Mr. Mohammed**  
**Samuddin**  
DGM- Business Development,  
TVS Training & Services



27-07-2022 | 10.30 a.m  
For III year EEE students

**Chief Patron**  
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Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - Lab Affairs

**Coordinators**  
Dr. V. Chamundeeswari M.E., M.B.A., Ph.D.  
Associate Professor / EEE  
Dr. V. Krishnakumar M.Tech., Ph.D.  
Associate Professor / EEE

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**PIC: Guest lecture**

Our department organized Guest Lecture on “Major opportunities prevailing in Electric vehicles” by Mr. Mohammed Samuddin, DGM- Business Development, TVS Training & Services, No. 7/9 A, B, C, MTH Road, Ambattur Industrial Estate, Chennai-600 058. For our III year students on 27/07/2022.

6.



**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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**COUNSELLING CODE:1317**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organises

**DRAWING COMPETITION**

*Unleash the artist in you*

**JULY 25 to JULY 30**

**Exclusively for 11th,12th, and Diploma students**

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
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Principal, St. Joseph's College of Engineering

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**Dr. V. Vallinayagam M.Phil,Ph.D.**  
Dean Students Affairs, St. Joseph's College of Engineering  
**Staff Coordinator**  
Ms. R. G. Nirmala M.E.(Ph.D)  
Assistant Professor

Drawing competition had been conducted for the school students from 25<sup>th</sup> July 2022-30<sup>th</sup> July 2022. Around 15 participants from different schools had participated in this event. Each day drawing competition had been conducted based on a theme. Students submitted their drawings based on the beauty of nature, buildings and architecture, drawings based on imagination, memories, pencil drawing and ball point drawing. Drawing competition provided nice platform for young and creative artists.

7.



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**COUNSELLING CODE: 1317**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organises

**" THEME-BASED PHOTOGRAPHY CONTEST "**

Exclusively for 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> and Diploma students

• Capture photos and images based on the below theme and upload it in the google link given below, and win an e-Certificate.

**Event Dates: 25.04.2022 to 30.04.2022**

**Themes:**  
Green Nature  
Hometown pride  
Seasons  
Sporting Event  
History today  
Literature

Registration Link : <https://forms.gle/g32PThryxjwQQj9>  
Submission Link : <https://forms.gle/nsbB21F49lNqmax5>

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Executive Director, St. Joseph's Group of Institutions  
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Dean, St. Joseph's College of Engineering

**Staff Co-ordinator**  
Dr.V.Chamundeeswari M.E,MBA,Ph.D.  
Assistant Professor

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Contact: 9940104881 / 9940104882

An event named "A theme-based Photo-graphy contest "was conducted from April 25 to April 30 2022 for school students. Many students from different schools participated and received e-certificates.

PIC: School event poster

8.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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**St. Joseph's Group of Institutions**  
Jeppiaar Educational Trust  
OMR, Chennai - 119.

**COUNSELLING CODE:1317**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Organises  
**Let's Play Games**  
It's a Online Quiz on different sports

Exclusively for  
10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> and  
Diploma students

Date: 04-07-2022 to 09-07-2022  
Registration Form: <https://forms.gle/GyWxwFxoDkCR66Ah9>

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Chairman, St. Joseph's Group of Institutions

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Dr. A. Chandra Sekar M.E., Ph.D.  
Dean Research, St. Joseph's College of Engineering

**Staff Coordinator**  
Dr. P. Anbarasan M.Tech., Ph.D.  
Assistant Professor

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Contact: 9940104881 / 9940104882

**PIC: School event poster**

Our department of EEE conducted Online Quiz competition on different sports titled “Let’s Play Games” for school students exclusively for 10th, 11th, 12th, and diploma students from 4th July to 7th July 2022. The students from different schools are actively participated and received E-certificates.

9.

**Student Activity for the month July 2022**

**Internship**

Student Name	Year /Section	From Date - to date	Company Name	Pay Package
Barani Kumar S	III-A	12/07/22-19/07/22	E.I.D Parry (India) Limited	nil

**Competitions Won**

Students Name	Year /Section	TECHNICAL COMPETITION
JESSE S	IV - B	Won first prize in PROJECT EXHIBITION 2022 conducted by CRESCENT UNIVERSITY on 23.6.2022
MANI SHA N		
MARIA SHIRLEY JOHN LM		
PRIYANKA J		

10.

*Placement Details for month July 2022***Placement Record for the 2019-2023 Batch students as on 29/07/2022****Total No of students placed = 28 UG Students****Total No of Offers = 31 Offers****Total No of Eligible Students (UG) = 160****Total No of Eligible Students (PG) = 06**

<b>Name of the Students</b>	<b>Company Placed</b>	<b>Total No of Offers</b>
ABISHLAL N S	SOLITON	<b>1</b>
VIGNESH A	SOLITON	<b>1</b>
TINOJ D	ZOHO	<b>1</b>
ANANYA P	Mobiveil	<b>1</b>
ABINA S	Mobiveil	<b>1</b>
NIDHISH S	Mobiveil	<b>1</b>
ABINAYAA SRI T	AVASOFT, LATENTVIEW	<b>2</b>
AJITH V	AVASOFT	<b>1</b>
AKSHAYA KRISHNEN	AVASOFT	<b>1</b>
BERTINA	AVASOFT, LATENTVIEW	<b>2</b>
GODSON S V NOBLE	AVASOFT	<b>1</b>
KIRUTHIKA P	AVASOFT	<b>1</b>
LIFNY JOSE	AVASOFT	<b>1</b>
MARIA SHIRLEY JOHN L M	AVASOFT	<b>1</b>
MOHAMMED AASHIK	AVASOFT	<b>1</b>
NAITHRA B	AVASOFT	<b>1</b>
PRAVESH CHRISTO GERARDE	AVASOFT	<b>1</b>
RAJ IMMANUEL J	AVASOFT	<b>1</b>
RANJITH	AVASOFT	<b>1</b>
RISHAB S K	AVASOFT, LATENTVIEW	<b>2</b>
SHARAN MANIVANNAN	AVASOFT	<b>1</b>
SRIVERSAN S	AVASOFT	<b>1</b>

		SWETHA B	AVASOFT	1
		THIRUVEL	AVASOFT	1
		AMARNATH J C	AVASOFT	1
		JEDIDIAH B	HCL	1
		SANTHOSH C	Eurofins	1
		NITHIKSHA R	LATENTVIEW	1


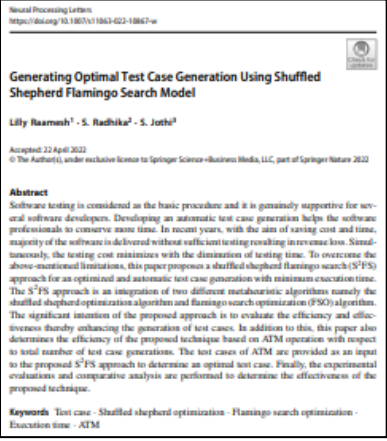
### DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

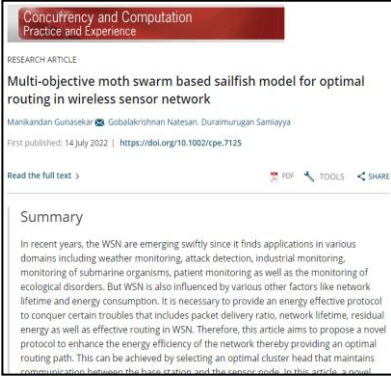

Sl. No.	Title	Detail														
		S.No	Faculty Name	Date	Webinar /Fdp attended/ workshop	Conducting agency	No. of days									
1	Webinar/ FDP Attended By Faculty	1.	Senthil Kumar B	09.07.2022 to 13.07.2022	Workshop on Research Tools and Techniques <a href="https://drive.google.com/file/d/1tQERFBaIV8bVosZ1fam5xV8EXJg3a_0O/view?usp=sharing">https://drive.google.com/file/d/1tQERFBaIV8bVosZ1fam5xV8EXJg3a_0O/view?usp=sharing</a>	Christ University	05									
		2.	V. VIJAYAN	11.07.2022 TO 16.07.2022	Soft sensor development using state and parameter estimation techniques and their applications <a href="https://drive.google.com/file/d/1rEhHNtnungf4uAw-LXdaAkXAdbc5R9Lm/view?usp=sharing_eil_se_dm&amp;ts=630773cf">https://drive.google.com/file/d/1rEhHNtnungf4uAw-LXdaAkXAdbc5R9Lm/view?usp=sharing_eil_se_dm&amp;ts=630773cf</a>	GIAN course	06									
2	PUBLICATION/patent/funded project/awards	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S.No</th> <th>Faculty Name</th> <th>Title of the paper</th> <th>Date</th> <th>Journal Name and Link</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					S.No	Faculty Name	Title of the paper	Date	Journal Name and Link					
S.No	Faculty Name	Title of the paper	Date	Journal Name and Link												


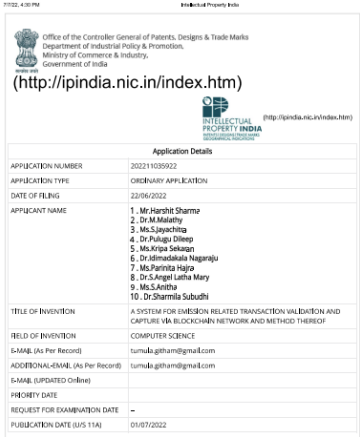


		1	Gnanaprakasam, C.N.	An efficient MFM-TFWO approach for unit commitment with uncertainty of DGs in electric vehicle parking lots	26 July 2022	Journal of Intelligent & Fuzzy Systems (IF : 1.737)  <a href="https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs220810">https://content.iospress.com/art icles/journal-of-intelligent-and- fuzzy-systems/ifs220810</a>	
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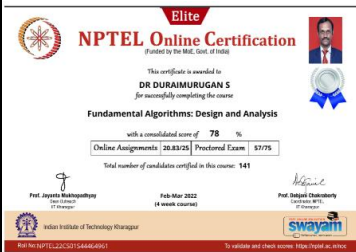
## DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution																				
1	 <p style="text-align: center;">Certificate received through offline FDP</p>	<p style="text-align: center;"><b>Online FDP/Webinar Attended by Faculty</b></p> <table border="1"> <thead> <tr> <th style="text-align: center;">S.No</th> <th style="text-align: center;">Title of the topic</th> <th style="text-align: center;">Name of the Staff</th> <th style="text-align: center;">Conducted By</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Insights and open Challenges in computing Technologies</td> <td>Dr. A Tamizhselvi Dr. D Logeshwari</td> <td>CSE Department, Sai Ram Engineering College sponsored by ISTE and CSI, Chennai</td> <td>11-07-2022 to 15-7-2022 (5 days)</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Sales force platform Developer -I</td> <td>Dr. A Tamizhselvi K. Priyadharshini</td> <td>ICT Academy, Chennai</td> <td>4-7-2022 to 8-7-2022 (5days)</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Latest Research on IOT data driven analysis - smart manufacturing</td> <td>K. Deepa</td> <td>EduCare Taiwan with YUAN University, Taiwan</td> <td>17-7-2022 ( 1 day)</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	Insights and open Challenges in computing Technologies	Dr. A Tamizhselvi Dr. D Logeshwari	CSE Department, Sai Ram Engineering College sponsored by ISTE and CSI, Chennai	11-07-2022 to 15-7-2022 (5 days)	2.	Sales force platform Developer -I	Dr. A Tamizhselvi K. Priyadharshini	ICT Academy, Chennai	4-7-2022 to 8-7-2022 (5days)	3.	Latest Research on IOT data driven analysis - smart manufacturing	K. Deepa	EduCare Taiwan with YUAN University, Taiwan	17-7-2022 ( 1 day)
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2	 <p style="text-align: center;">Dr. Lilly Raamesh published paper in <b>Annexure I (Impact Factor: 2.565)</b></p>	<p><b>Lilly Raamesh, S. Radhika and S. Jothi, “Generating Optimal Test Case Generation Using Shuffled Shepherd Flamingo Search Model”, Neural Processing Letters, Publisher: Springer, E ISSN: 1573-773X, Print ISSN: 1370-4621, <a href="https://doi.org/10.1007/s11063-022-10867-w">https://doi.org/10.1007/s11063-022-10867-w</a>, pp.1-21, June 2022 (Impact Factor: 2.565, Annexure I, SCI Expanded)</b></p> <p><b>Abstract:</b> Software testing is considered as the basic procedure and it is genuinely supportive for several software developers. Developing an automatic test case generation helps the software professionals to conserve more time. In recent years, with the aim of saving cost and time, majority of the software is delivered without sufficient testing resulting in revenue loss. Simultaneously, the testing cost minimizes with the diminution of testing time. To overcome the above-mentioned limitations, this paper proposes a shuffled shepherd flamingo search (S<sup>2</sup>FS) approach for an optimized and automatic test case generation with minimum execution time. The S<sup>2</sup>FS approach is an integration of two different metaheuristic algorithms namely the shuffled shepherd optimization algorithm and flamingo search optimization (FSO) algorithm. The significant intention of the proposed approach is to evaluate the efficiency and effectiveness thereby enhancing the generation of test cases. In addition to this, this paper also determines the efficiency of the proposed technique based on ATM operation with respect to total number of test case generations. The test cases of ATM are provided as an input to the proposed S<sup>2</sup>FS approach to determine an optimal test case. Finally, the experimental evaluations and comparative analysis are performed to determine the effectiveness of the proposed technique.</p> <p><b>Keywords:</b> Test case - Shuffled shepherd optimization - Flamingo search optimization - Execution time - ATM</p>																				

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
3	 <p>Dr. G. Manikandan published paper in <b>Annexure I (Impact Factor: 1.831)</b></p>	<p><b>G. Manikandan, N. Gobalakrishnan, S. Duraimurugan</b>, “Multi-objective moth swarm based sailfish model for optimal routing in wireless sensor network”, <i>Concurrency and Computation Practice and Experience</i>, Publisher: Wiley, E ISSN:1532-0634, <a href="https://doi.org/10.1002/cpe.7125">https://doi.org/10.1002/cpe.7125</a>, July 2022 (<b>Impact Factor:1.831, SCI Extended, Annexure-I</b>)</p> <p><b>Abstract:</b> In recent years, the WSN are emerging swiftly since it finds applications in various domains including weather monitoring, attack detection, industrial monitoring, monitoring of submarine organisms, patient monitoring as well as the monitoring of ecological disorders. But WSN is also influenced by various other factors like network lifetime and energy consumption. It is necessary to provide an energy effective protocol to conquer certain troubles that includes packet delivery ratio, network lifetime, residual energy as well as effective routing in WSN. Therefore, this article aims to propose a novel protocol to enhance the energy efficiency of the network thereby providing an optimal routing path. This can be achieved by selecting an optimal cluster head that maintains communication between the base station and the sensor node. In this article, a novel multi-objective moth swarm based sailfish (MOMS-SF) technique is employed in selecting an optimal cluster head. The proposed MOMS-SF technique enhances the network lifetime and minimizes the energy consumption of the network. Finally, the evaluation results are conducted to determine the network performances of the proposed MOMS-SF approach. Also, a comparative analysis is carried out and the graphical analyzes for various parameters are made for various approaches to determine the effectiveness of the proposed system.</p>
4	 <p><b>K. Priyadharshini</b> published paper in LNNS Book Series, Springer</p>	<p><b>K. Priyadharshini, P.D. Sawant, M. Khadir, S. Majji, A.S. Chouhan and M. Dash</b>, “Convolution Neural Network (CNN) Based Deep Q-Learning to Maximise the Returns from Stock Market”. In <i>Data Engineering and Intelligent Computing</i>, Lecture Notes in Networks and Systems book series, Publisher: Springer, Print ISBN: 978-981-19-1558-1, <a href="https://doi.org/10.1007/978-981-19-1559-8_16">https://doi.org/10.1007/978-981-19-1559-8_16</a>, pp. 157-166, July 2022.</p> <p><b>Abstract:</b> Investors must devise an effective stock trading plan. The stock market is complex and dynamic, making it difficult to find an optimal approach. A reinforcement learning strategy is used because it can manage domains with stochastic transitions without a model. This work will investigate how RL may be used to maximise market returns whilst keeping the human element in mind. The learning agent is trained on stock prices and public interest patterns collected from Google Trends. A convolution neural network is trained on stock data and Google Trends using deep Q-learning (DQN). This paper investigates the use of graphical social media trends to train a reinforcement learning agent for stock trading. The agent's performance was tested using a variety of stocks and phrases. Preliminary results demonstrate the agent performs effectively when trained on associated positive data sets.</p>

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution																								
5	 <p>AI and Machine Learning Enabled Software Defined Networks</p> <p>Kanuri K. S. V. A. Satheesh, M. Janani, S. Chitra Venkateswarlu, B. Ganesh Kumar, Anubhuti Gupta &amp; Borithu Kodiah</p> <p>Conference paper   First Online: 06 July 2022</p> <p>31 Accesses</p> <p>Part of the Lecture Notes in Networks and Systems book series (LNNS, volume 446)</p> <p><b>Abstract</b></p> <p>The telecommunications industry has not been exempt from the technology sector's massive artificial intelligence (AI) and machine learning (ML) boom in recent years. Artificial intelligence (AI) and machine learning (ML) provide advanced analytics and automation that are in line with modern networking concepts like software-defined networking (SDN) and software-defined wide-area networks (SD-WAN). Work is being done to determine how AI/ML can benefit SD-WAN and to demonstrate these benefits in a real SD-WAN network using a workable example. Modern ML techniques and algorithms are the extent of AI/ML. Today's Internet is under constant threat from DDoS (Distributed Denial of Service) attacks. As the volume of Internet traffic grows, it's getting harder and harder to tell what's legitimate and what's malicious. The DDoS attack was detected using a machine learning approach that makes use of a Random Forest classifier. To better detect DDoS attacks, we tweak the</p> <p><b>Co-author: M. Janani</b> published paper in LNNS Book Series, Springer</p>	<p>K. K. Satheesh, <b>M. Janani</b>, S. Venkateswarlu, R. G. Kumar, A. Gupta and B. Kotaiah, “AI and Machine Learning Enabled Software Defined Networks”. In Data Engineering and Intelligent Computing, Lecture Notes in Networks and Systems book series, Publisher: Springer, Print ISBN: 978-981-19-1558-1, pp. 131-144, <a href="https://doi.org/10.1007/978-981-19-1559-8_14">https://doi.org/10.1007/978-981-19-1559-8_14</a>, July 2022.</p> <p><b>Abstract:</b> The telecommunications industry has not been exempt from the technology sector’s massive artificial intelligence (AI) and machine learning (ML) boom in recent years. Artificial intelligence (AI) and machine learning (ML) provide advanced analytics and automation that are in line with modern networking concepts like software-defined networking (SDN) and software-defined wide-area networks (SD-WAN). Work is being done to determine how AI/ML can benefit SD-WAN and to demonstrate these benefits in a real SD-WAN network using a workable example. Modern ML techniques and algorithms are the extent of AI/ML. Today’s Internet is under constant threat from DDoS (Distributed Denial of Service) attacks. As the volume of Internet traffic grows, it’s getting harder and harder to tell what’s legitimate and what’s malicious. The DDoS attack was detected using a machine learning approach that makes use of a Random Forest classifier. To better detect DDoS attacks, we tweak the Random Forest algorithm. The proposed machine learning approach outperforms, as demonstrated by our results.</p>																								
6	 <p>Office of the Controller General of Patents, Designs &amp; Trade Marks Department of Industrial Policy &amp; Promotion, Ministry of Commerce &amp; Industry, Government of India (<a href="http://ipindia.nic.in/index.htm">http://ipindia.nic.in/index.htm</a>)</p> <p>INTELLECTUAL PROPERTY INDIA INDIAN PATENT OFFICE</p> <p><b>Application Details</b></p> <table border="1"> <tr> <td>APPLICATION NUMBER</td> <td>202211035922</td> </tr> <tr> <td>APPLICATION TYPE</td> <td>ORDINARY APPLICATION</td> </tr> <tr> <td>DATE OF FILING</td> <td>22/06/2022</td> </tr> <tr> <td>APPLICANT NAME</td> <td>1. Mr. Harshit Sharma 2. Dr. Malathy 3. Ms. S. Jayachitra 4. Dr. Pulugu Dileep 5. Ms. Kripa Sekaran 6. Dr. Idimadakala Nagaraju 7. Ms. Parinita Hajra 8. Dr. S. Angel Latha Mary 9. Ms. S. Anitha 10. Dr. Sharmila Subudhi</td> </tr> <tr> <td>TITLE OF INVENTION</td> <td>A SYSTEM FOR EMISSION RELATED TRANSACTION VALIDATION AND CAPTURE VIA BLOCKCHAIN NETWORK AND METHOD THEREOF</td> </tr> <tr> <td>FIELD OF INVENTION</td> <td>COMPUTER SCIENCE</td> </tr> <tr> <td>E-MAIL (As Per Record)</td> <td>luma@github@gmail.com</td> </tr> <tr> <td>ADDITIONAL E-MAIL (As Per Record)</td> <td>luma@github@gmail.com</td> </tr> <tr> <td>E-MAIL (UPDATED Online)</td> <td></td> </tr> <tr> <td>PRIORITY DATE</td> <td>-</td> </tr> <tr> <td>REQUEST FOR EXAMINATION DATE</td> <td>-</td> </tr> <tr> <td>PUBLICATION DATE (AS 11A)</td> <td>01/07/2022</td> </tr> </table> <p>Patent published by Ms. Kripa Sekaran and Ms. S. Anitha</p>	APPLICATION NUMBER	202211035922	APPLICATION TYPE	ORDINARY APPLICATION	DATE OF FILING	22/06/2022	APPLICANT NAME	1. Mr. Harshit Sharma 2. Dr. Malathy 3. Ms. S. Jayachitra 4. Dr. Pulugu Dileep 5. Ms. Kripa Sekaran 6. Dr. Idimadakala Nagaraju 7. Ms. Parinita Hajra 8. Dr. S. Angel Latha Mary 9. Ms. S. Anitha 10. Dr. Sharmila Subudhi	TITLE OF INVENTION	A SYSTEM FOR EMISSION RELATED TRANSACTION VALIDATION AND CAPTURE VIA BLOCKCHAIN NETWORK AND METHOD THEREOF	FIELD OF INVENTION	COMPUTER SCIENCE	E-MAIL (As Per Record)	luma@github@gmail.com	ADDITIONAL E-MAIL (As Per Record)	luma@github@gmail.com	E-MAIL (UPDATED Online)		PRIORITY DATE	-	REQUEST FOR EXAMINATION DATE	-	PUBLICATION DATE (AS 11A)	01/07/2022	<p><b>Patent Published</b></p> <p><b>Title of the invention:</b> A System for Emission Related Transaction Validation and Capture via Blockchain Network and Method Thereof</p> <p><b>Name of Inventors :</b></p> <ol style="list-style-type: none"> <li>1. Mr. Harshit Sharma</li> <li>2. Dr. M. Malathy</li> <li>3. Ms. S. Jayachitra</li> <li>4. Dr. Pulugu Dileep</li> <li><b>5. Ms. Kripa Sekaran</b></li> <li>6. Dr. Idimadakala Nagaraju</li> <li>7. Ms. Parinita Hajra</li> <li>8. Dr. S. Angel Latha Mary</li> <li><b>9. Ms. S. Anitha</b></li> <li>10. Dr. Sharmila Subudhi</li> </ol> <p><b>Patent Number:</b> 202211035922 <b>Filing Date:</b> 22-6-2022 <b>Publication Date:</b> 1-7-2022</p>
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E-MAIL (As Per Record)	luma@github@gmail.com																									
ADDITIONAL E-MAIL (As Per Record)	luma@github@gmail.com																									
E-MAIL (UPDATED Online)																										
PRIORITY DATE	-																									
REQUEST FOR EXAMINATION DATE	-																									
PUBLICATION DATE (AS 11A)	01/07/2022																									

7



Certificates received from online courses

Online Course Attended by the Faculty

S. No.	Course Name	Name of the Staff	Conducted By	Date of Completion
1.	1. Module 2: Professional Ethics and Sustainability 2. Module 5: Technology Enabled Learning and Life-Long Self Learning	Mrs. Anitha S	AICTE - National Initiative for Technical Teachers Training	February 2022
2.	1. Module 2: Professional Ethics and Sustainability 2. Module 5: Technology Enabled Learning and Life-Long Self Learning	Mrs. KripaSekaran	AICTE - National Initiative for Technical Teachers Training	February 2022
3.	1. Introduction to Robotic Process Automation 2. Introduction to Natural Language Processing 3. Python for Data Science 4. Computer Vision 101 5. Introduction to Data Science 6. Introduction to Deep Learning	Ms. Suthanthira Devi	Infosys Springboard	June 2022
4.	Computer Networks and Internet Protocol	Dr. Duraimurugan S	National Programme on Technology Enhanced Learning	Jan-April 2022
5.	Fundamental Algorithms: Design and Analysis	Dr. Duraimurugan S	National Programme on Technology Enhanced Learning	Feb-Mar 2022





CERTIFICATE OF COMPLETION

CERTIFICATE OF COMPLETION

## Python Complete Course For Python Beginners

Instructor: Harsh Jain

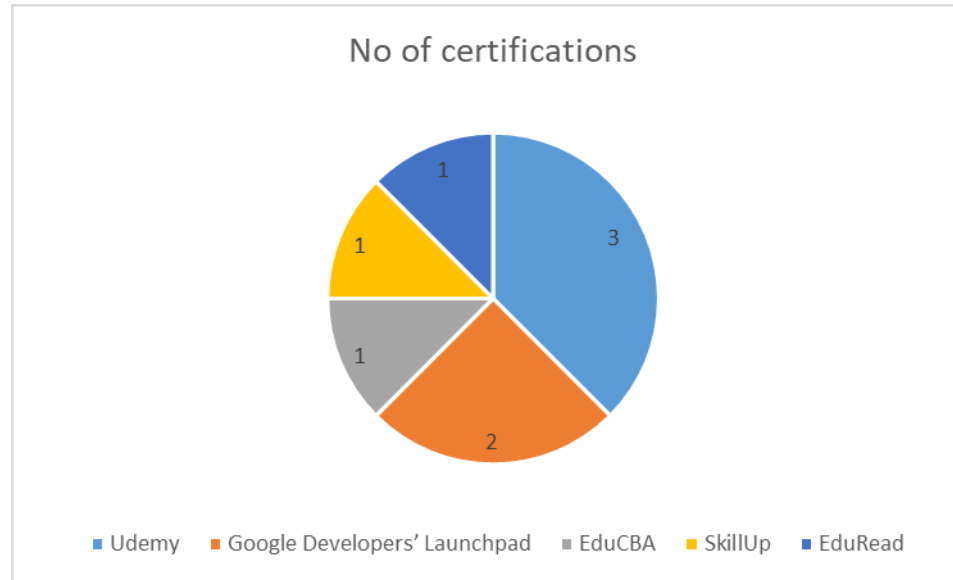
**Praabindh P**

Date: July 17, 2022  
Length: 7.5 total hours



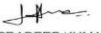





Sample Certificates

## Students Online Certification Report

8 online certifications have been obtained by them from some of the reputed online course platforms.




## DEPARTMENT OF MECHANICAL ENGINEERING


Sl No	Name of the Activity	Remarks
1		
2	<p>FDP Attended:</p>  <p style="text-align: center;">This is to Certify that Dr.N.E.ARUN KUMAR of St. Joseph's College of Engineering has actively participated in Six Day Faculty Development Program "SMART MATERIALS AND MANUFACTURING SYSTEM" Conducted from 27th June 2022 to 2nd July 2022 by the Department of Mechanical Engineering, Kings Engineering College, Chennai.</p> <p style="text-align: center;">      <b>Dr.C.SADHASIVAM    Mr. J. PRADEEP KUMAR    Dr.S.HARIKRISHNAN    Dr.T.JOHN ORAL BHASKAR</b>  <b>CONVENER                      COORDINATOR                      HOD/ MECH                      PRINCIPAL</b> </p>	<ul style="list-style-type: none"> <li>➤ Dr.N..E.Arunkumar attended six days FDP on <b>Smart Materials and Manufacturing Systems</b> during 27<sup>th</sup> June 2022 to 2<sup>nd</sup> July 2022 organized by <i>Kings Engineering College</i>.</li> <li>➤ Dr.R.Selvam attended six days FDP on <b>Smart Materials and Manufacturing Systems</b> during 27<sup>th</sup> June 2022 to 2<sup>nd</sup> July 2022 organized by <i>Kings Engineering College</i></li> <li>➤</li> </ul>
	 <p style="text-align: center;"><b>Regional Meet</b> Institutions' Innovation Council MOE's Innovation Cell <b>Certificate of Participation</b> Dr.N.E.ARUN KUMAR ST. JOSEPH'S COLLEGE OF ENGINEERING, Tamil Nadu has participated in the regional meet held on 21st July 2022 at Sathyabama Institute of Science and Technology, Chennai.</p> <p style="text-align: center;">    <b>Dr. G. Suresh                      Dr. Dipan Bhatia</b>  <b>President of IIC                      Assistant Innovation Director</b>  <b>MOE's Innovation Cell                      MOE's Innovation Cell</b> </p>	<ul style="list-style-type: none"> <li>➤ Dr.N.E.Arunkumar Attended Regional meet of Institution Innovation Council MOE's Innovation cell on 21<sup>st</sup> July 2022 at sathyabama University, Chennai.</li> </ul>

## DEPARTMENT OF MATHEMATICS AND ENGLISH

Description about the various activities undertake and corresponding remark on its status of execution

Events	Remarks					
<b>FDP/Workshop/Conference</b>						
	S.No	Name of the Staff	Program Title	National/ International	Organized by	Date
	1	Ms, A, Sathiya Jothi	FDP On Research Methodology On English Literature And Language	National	Bharathiyar University	6 days 11-07-2022 to 16-07-2022
	Conferences – Paper Presentation					
	S.No	Name of the Staff	Program Title	National/ International	Title of the Paper	Organized by
1	Dr.K.Sasikala	International Workshop on Combinatorial Image Analysis (IWZIA 2022)	International	Adjunct Partial Array Token Petri Net Structure.	Messina, Italy	3 13-07-2022 to 16-07-2022
<b>Publications(only published) details</b>	<ol style="list-style-type: none"> <li>1. Dr. K. Abinaya, A Psycholinguistic Approach To Second Language Acquisition: An Intervention Research, NeuroQuantology, Vol. 20 (6), page 9067-9078, July 2022. SCOPUS, DOI : <a href="https://doi.org/10.14704/nq.2022.20.6.NQ22889">https://doi.org/10.14704/nq.2022.20.6.NQ22889</a>.</li> <li>2. Dr. U.Venkateswara, Impact of Resilience Theory on Student Learning Outcomes in an ESL classroom: An Intervention Study, NeuroQuantology, Vol. 20 (6), page 8273-8284, July 2022. SCOPUS, DOI: <a href="https://doi.org/10.14704/nq.2022.20.6.NQ22820">https://doi.org/10.14704/nq.2022.20.6.NQ22820</a></li> <li>3. Dr. U.Venkateswara, Communication Skills enhancement through Neuro-Linguistic Programming: A Study, NeuroQuantology, Vol. 20 (6), page 9060-9066, July 2022. SCOPUS, DOI : <a href="https://doi.org/10.14704/nq.2022.20.6.NQ22888">https://doi.org/10.14704/nq.2022.20.6.NQ22888</a></li> </ol>					

## DEPARTMENT OF MBA

<p><b>FACULTY PUBLICATION(Only Published)</b></p>	<p>Dr. SP. Karuppiah - An Efficient Galactic Swarm Optimization based Fractal Neural Network Model with DWT for Malignant Melanoma Prediction. Neural Processing Letters, 2022, <a href="https://doi.org/10.1007/s11063-022-10847-0">https://doi.org/10.1007/s11063-022-10847-0</a> SCI, Springer Publications</p>
<p><b>WORKSHOP/FDP/STP/CONFERENCE / SEMINAR ATTENDED BY FACULTY:</b></p> 	<ul style="list-style-type: none"> <li>• Mr.S. Aravinth - Attended Innovation Ambassador training program for 30 hours conducted by Ministry of Education (MOE).</li> <li>• Dr. SP. Karuppiah - Attended FDP on “Problem Solving and Python Programming Laboratory” conducted by Center for Faculty Development, Anna University and R.M.D Engineering College , Chennai From 04-07-2022 to 09-07-2022.</li> <li>• Mr.S. Aravinth - Attended Innovation Ambassador training program for 30 hours conducted by Ministry of Education (MOE).</li> <li>• Mr.S. Aravinth – Attended the Ministry of Education’s (MOE) Regional Meet held on 21<sup>st</sup> July at Sathyabama Institute of Science and Technology, Chennai.</li> </ul>
<p><b>FACULTY APPOINTED/NOMINATED FOR EDITORIAL BOARDS/ PAC/BOS</b></p>	<p>Dr.K.Sampath – Appointed as a member of Programme Advisory Council for MBA Department, Karpaga Vinayaga College of Engineering and Technology.</p>

## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	<b>FDP/Workshop/Conference</b>	<p>1. Dr. S. Kiruba and Dr. N. Punitha attended International E-conference “Sustainable Materials and Technologies for Bio and Energy Applications SMTBEA-2022” conducted by “SSN Institutions, Kalavakkam” from 13.07.22 to 15.07.22</p> <p>2. Dr. N. Punitha attended a national level online workshop on “Sustainable Materials Advances and Applications” conducted by “SRM Institute of Science and Technology, Ramapuram Campus” on 22.07.22.</p> <p>3. Dr. P. Krishnan attended a national webinar on “IP awarness program under national awarness program under National intellectual property mission” conducted by “Intellectual Property of India, Chennai” on 25.07.2022</p> <p>4. Dr. N.R. Rajagopalan, Dr. S.M. Prakash, Dr. B. Subash, Dr. K. Jayamoorthy, Dr. N. Punitha, Dr. G. Murugan, Dr. V. Swarnalatha, Dr. K. Sathesh Kumar, Dr. S. Savitha, Dr. J. Sharmila, Dr. S. Rama, Dr. A. Uma Devi, Dr. P. Saravanan, Dr. P. Krishnan attended National level online faculty development program on “Emerging Trends in Applied Chemistry” conducted by Easwari Engineering College, Ramapuram, Chennai from 25.07.22 to 30.07.22</p> <p>5. Dr. S. Kiruba, Ms. A. Arulmozhi, Dr. S. Manikandan, Ms. A. Mahalakshmi, Mr. S. Kaleel Mohamed Ibrahim, Dr. S. Rama, Dr. A. Uma Devi, Dr. P. Saravanan, Dr. P. Krishnan attended National level online faculty development program on “Emerging Trends in Applied Physics” conducted by Easwari Engineering College, Ramapuram, Chennai from 25.07.22 to 30.07.22</p>
2	<b>Awards/Prize won by students / Staff</b>	<p>1. Dr. S. Suresh has been awarded with “Simats Global Iconic Excellence Award For Best Faculty” by Saveetha University, Chennai.</p>
3	<b>Other activities(if any)</b>	<p>Department of Science conducted the following online events for school students:</p> <p>1) Puzzle time – 20.07.22                  2) Bullzeye – 21.07.22                  3) Creative 360 – 22.07.22</p>

## DEPARTMENT OF CIVIL ENGINEERING

<b>Sl. No.</b>	<b>Photographs Captured During Events (Briefs About the Photographs)</b>	<b>Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating</b>
1.	FDP/Workshop/Conference attended	<ul style="list-style-type: none"><li>● Dr.K.Vijai has attended an Anna University Sponsored FDP on CE8301 Strength of Material I organized by SVCE, Chennai during 11.07.2022 to 16.07.2022</li></ul>
2.	<b>Other activities (if any)</b>	<ul style="list-style-type: none"><li>● Mrs.S.Banupriya and Ms.R.Ruthra have completed NITTT Module 7 and 8 courses on July 2022</li></ul>



## DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p><b>FDP/WORKSHOP/CONFERENCE</b></p>  <p><b>DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING</b></p> <p><i>Certificate of Participation</i></p> <p>This is to certify that Dr. / Mr. / Ms. / Mrs. / Prof. <u>Baskar Gurunathan, Professor</u></p> <p>of <u>St. Joseph's College of Engineering, Chennai</u> has</p> <p>participated in one week online Faculty Development Program on "Outcome Based Education" Organized by the Department of Electronics and Communication Engineering, CK College of Engineering and Technology, Cuddalore, Tamilnadu, India. from 24<sup>th</sup> August to 30<sup>th</sup> August 2022.</p> <p>                Dr. D. Sengeri Convener      Dr. M. Arulaalan Professor &amp; HOD      Dr. S. Saravanan Principal - CKCET      Ms. Amudhavalli Ranganathan Executive Director - CK Group of Institutions         </p> <p>Certificate ID: JHFB2C-CE000093</p>  <p>Made for free with Certify'em</p>	<p>Dr. G. Baskar, Participated in online one Week Online <b>FDP on "Outcome Based Education"</b>, organized by CK College of Engineering and Technology, Cuddalore, Tamil Nadu during from 24<sup>th</sup> August to 30<sup>st</sup> August 2022.</p> <p>Dr. M. Chamundeeswari attended a one-day FAHS Science Club - Faculty Seminar on."Automating Liquid Handling for Life Sciences" organised by Department of Allied Health Sciences, Chettinad Academy of Research and Education , Chennai on 30<sup>th</sup> July 2022.</p> <p>Ms.Yuwvararanni.S has attended Attended 7 days National Level Online FDP on Research Application on BioEngineering and technology, Organized by Prathyusha college of Engineering, Chennai during 11-17 th July 2022</p> <p>Ms.Yuwvararanni.S has attended Attended 6 Days National level Online FDP on immunology, Organized by Kamaraj College of Engineering and Technology, Viruthunagar, Sponsored by CFD, Anna University, during 4-9 th July 2022</p> <p>Ms.Yuwvararanni.S has attended online Faculty Seminar on Automatic Liquid Handling for life science Organized by Chettinad Academy of Research and Education, Chennai on 30.7.2022</p>

Dr. G. Baskar – Copy of FDP certificate

## CERTIFICATE OF PARTICIPATION

This is to certify that ..... **Dr. Chamundeeswari** ..... has participated as **Delegate** in the FAHS Science Club - Faculty Seminar on "**AUTOMATING LIQUID HANDLING FOR LIFE SCIENCES**" organized by Faculty of Allied Health Sciences, Chettinad Academy of Research and Education, Kelambakkam, Tamil Nadu, India on 30th July 2022.



**Dr. S. Weslen Vedakumari**  
Convener  
Assistant Professor - FAHS, CARE



**Dr. K. Kumar Ebenezer**  
Principal (i/c),  
FAHS, CHRI



**Dr. Shantha Ravisankar**  
Vice Chancellor,  
CARE

e - Certificate



Dr. M. Chamundeeswari – copy of certificate



**PRATHYUSHA**  
**ENGINEERING COLLEGE**  
ESTD. 2001



**DEPARTMENT OF BIOTECHNOLOGY**  
**FACULTY DEVELOPMENT PROGRAM**

***Certificate of participation***

This is to certify that

**Ms. Yuwvaranni.S, Assistant Professor, St. Joseph's College of Engineering**  
has Participated in seven days Faculty Development Program titled *Research Applications on Bio Engineering Techniques* Organized by the Department of Biotechnology, Prathyusha Engineering College held from 11<sup>th</sup> July to 17<sup>th</sup> July 2022.



**Dr. P. DHASARATHAN**



**Dr. B R RAMESH BAPU**



Ms. Yuwvaranni – Copy of FDP certificate



Ms. Yuwvaranni – Copy of FDP certificate

**PUBLICATIONS(ONLY PUBLISHED) DETAILS**

2.

**Dr. G. Baskar**, Professor, Department of Biotechnology at St. Joseph’s College of Engineering, Chennai, India has been appointed as Associate Editor in “Frontiers in Nanotechnology” (Nanocatalysis Section) Published by Frontiers Publishers, Switzerland.

**Preethy K.R.** and **Munusamy Chamundeeswari\***, “Optimization of Reduced Graphene Oxide Production using Central Composite Design from Pennisetum glaucum for

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Specialty Chief Editor

  
**Francis Verpoort**  
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 <b>Tie Ma</b>	 <b>Tianxi Krui</b>	 <b>Tan Lin</b>	 <b>Abinilhamid Binradiah</b>

Dr. G. Baskar – Copy of appointment as Editor

"Biomedical Applications", Biotechnology and Applied Biochemistry" accepted on July 2022, **IF - 2.926**

**Antony Catherine Flora Louis & Sivakumar Venkatachalam**, Post-harvest quality and shelf life assessment of *Agaricus bisporus* influenced by nanocellulose/nanohemicellulose loaded starch based packaging, Polymer composites, vol.43, pp.7538-7550 (July, 2022).

## Optimization of reduced graphene oxide production using central composite design from *Pennisetum glaucum* for biomedical applications

Kuppusamy Ravichandran Preethy<sup>1</sup> | Munusamy Chamundeeswari<sup>2</sup> 

<sup>1</sup>Assistant Professor, Department of Biotechnology, St. Joseph's College of Engineering, Chennai, India

<sup>2</sup>Associate Professor, Department of Biotechnology, St. Joseph's College of Engineering, Chennai, India

### Correspondence

Address to correspondence, M. Chamundeeswari, Department of Biotechnology, St. Joseph's College of Engineering, OMR, Chennai 600119, India.  
E-mail: chamundeeswari@scjce.ac.in


### Abstract

The current study outlines the toxicity-free green synthesis of reduced graphene oxide (GO) using *Celosia argenta*. The synthesized sample was characterized by UV-visible spectroscopy with a strong absorption peak at 260 nm due to redshift. The  $2\theta$  value around  $24.1^\circ$  by X-ray diffraction analysis and the functional groups like  $-\text{OH}$ ,  $-\text{CH}_2-$ ,  $-\text{C}=\text{C}-$ , and  $-\text{CHO}$  by Fourier transmission infrared spectroscopy confirmed the reduction of GO. Field emission scanning electron microscopy–energy-dispersive X-ray spectroscopy reported stacked sheets with smooth edges with an atomic ratio of carbon:oxygen (83.56:16.44). This novel

Dr. M. Chamundeeswari and Ms. K.R. Preethy –Copy of published paper

### RESEARCH ARTICLE




## Post-harvest quality and shelf life assessment of *Agaricus bisporus* influenced by nanocellulose/nanohemicellulose loaded starch based packaging

Antony Catherine Flora Louis, Sivakumar Venkatachalam 

First published: 02 July 2022 | <https://doi.org/10.1002/pc.26853>

**Funding information:** CSIR-SRF, Grant/Award Number: 09/468/0508/2018 EMR-I

[Read the full text >](#)

 PDF  TOOLS  SHARE

### Abstract

The post-harvest shelf life and quality of *Agaricus bisporus* can be prolonged by effective packaging and storage. This work is an attempt to extend the shelf life and preserve the quality of *Agaricus b.* through nanocellulose and nanohemicellulose reinforced starch

Ms. Antony Catherine Flora . L –Copy of published paper

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You Choose, We Do It

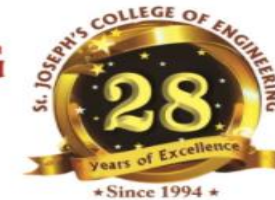
# St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. Joseph's Group of Institutions

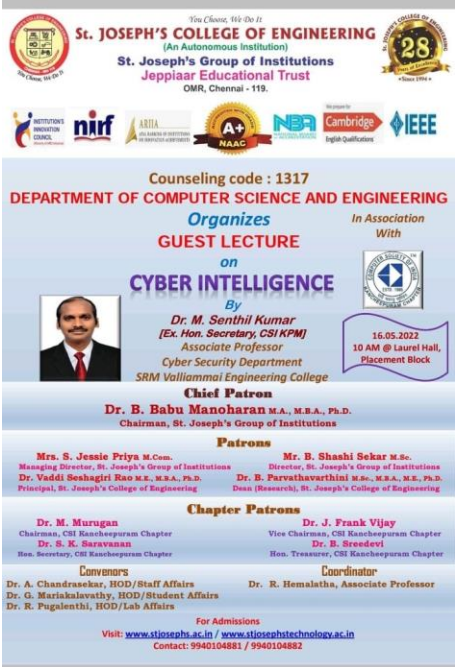
Jeppiaar Educational Trust

OMR, Chennai - 119.



## AUGUST 2022

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	 <p>The poster details the FDP on Open Source Cyber Security Tools, organized by the Department of Computer Science and Engineering at St. Joseph's College of Engineering. It features a guest lecture by Dr. M. Senthil Kumar on Cyber Intelligence, with various patrons and chapter patrons listed.</p>	<p>Date : 22.08.2022 – 26.08.2022            Venue : Online            Nature of Event : Faculty Development Programme            Participants : Engineering Faculties            Organized by : NITTTR, Chandigarh</p> <p><b>Objective:</b></p> <ul style="list-style-type: none"> <li>To get exposure in cyber security</li> <li>How to use and protect our electronic gadgets from cyber attacks</li> <li>Ways of cyber attacks</li> <li>Tools for protecting cyber attacks</li> </ul> <p><b>Outcome:</b></p> <ul style="list-style-type: none"> <li>Gained knowledge about the fundamentals of cyber security</li> <li>The tools used for protecting our gadgets from cyber attacks</li> <li>How to act if there is a cyber-attack occurred</li> </ul>

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## 1. Events Organized:

The following events have been organized and conducted in the month of August, 2022

### OPTICA Event: GUEST TALK

**St. Joseph's College of Engineering**  
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**St. Joseph's Group of Institutions**  
Jeppiaar Educational Trust  
OMR, Chennai - 119  
COUNSELLING CODE - 1317

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
in association with  
**OPTICA STUDENT CHAPTER**  
presents  
**A GUEST TALK ON**  
" OUR FUTURE WITH SEMICONDUCTORS "

Date: 2<sup>nd</sup> August 2022  
Venue - AV Hall  
Timing: 10:00 AM To 11:30 AM

**Mr. Arul Mahesh Jagadeesa Das B.E., M.S., M.B.A**  
Senior Business Development Manager  
(Fabless, System & EDA) at Imec, Belgium  
**Chief Patron**  
**Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.**  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jesse Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering

Dr. G. Sreekumar M.Sc., M.Tech., Ph.D. Dean (Academics)  
Dr. A. Chandra Sekar M.E., Ph.D. Dean (Research)  
Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D. Dean (Students Affair)

**Convenors**  
Dr. B. Victoria jancee M.E., Ph.D. HOD-Staff Affairs  
Dr. S. Aghalya M.E., Ph.D. HOD-Student Affairs  
Dr. P. Ezhilarasi M.E., Ph.D. HOD-Lab Affairs

**Staff Coordinator**  
Dr. B. Vasudevan M.E., Ph.D. Associate Professor

**Student Coordinators**  
Rithish Murugan - +917550203999  
Shriya Mukundan - +919790935605  
Raghuram Murugesh - +916381376804

\*For Admissions: Visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or  
Contact: 9940104881 / 9940104882

### Report

An Interesting event for Electronics and Communication Engineering students on the title "Our Future With Semiconductor" was organised by the department of Electronics and Communication Engineering in association with the OPTICA student chapter on 02/08/2022. The chief guest was Mr. Arul Mahesh Jagadeesa Das who is a Senior Business Development Manager with several years of demonstrated work history in the semiconductor research industry.

The event started with the welcome speech and a brief introduction about the OPTICA with the events conducted so far and the achievements of OPTICA.

The guest started with giving an intro about the semiconductor industry and moved on by explaining the importance of semiconductor electronic devices. He also gave a detailed explanation about the evolution of semiconductors and explained about the various possibilities in growth of the same. It was an eye opening session for all the students in the field of electronics and was very informative.

Around 180 students from the ECE department of St. Joseph's College of Engineering were participated. It was a very interactive session as the students were encouraged by the guest to ask any sort of doubts and he poured his knowledge by explaining the answers to all the queries. It was an heartfelt presentation about semiconductors. The event was well organized by Dr. B. Vasudevan, co-ordinator of OPTICA student chapter, with the office bearers, Mr. Rithish Murugan (President), Shriya Mukundan (Vice President), Mr. Raghuram Murugesh (secretary).

**OPTICA Event : TECH TALK**

**Report**



An enlightening technical event for the Electronics and Communication Engineering Students on the title “TECH TALK” was organized by the Department of ECE in association with the OPTICA student chapter on 30.08.2022 . The event started with a welcome address and the rules and regulations for the event were instructed. 7 teams participated from III year in department of ECE ,St. Joseph’s College of Engineering and got benefited. There was only one round where each team came forward and presented their innovative ideas in front of the judges. Those ideas were new and very informative for the participants who were present. The entire event was monitored and judged by Dr.B.Vasudevan, Co-Ordinator of Optica STUDENT CHAPTER and Mr.R.Prabhu, Assistant professor, Department of ECE.



**2. Publications:**

The following staff member have published research paper in the month of July at International Level

S. No	Name of the Staff	Title of the Publication	Journal/Conference	Date & Year of Publication	Indexing
1.	Mrs.P.Thenmozhi	Robotic Process Automation For Managing Patient Records	AICTE Sponsored International Conference on "Emerging Innovative Technologies in Engineering"	13/7/2022	Presented and publication is in progress



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	Remarks
1.	 <p style="text-align: center;"><b>PIC: IEEE event poster</b></p>	<p>Our IEEE Women in Engineering AG under St. Joseph's College of Engineering Student Branch Chapter organised "WOMEN'S FORUM -Session 8" on behalf of IEEE WIE 25th Anniversary Celebration for School, Diploma and College students on 28th July 2022. The topic of the webinar was "Utilizing technical knowledge to make a difference as an engineer". The speaker for the webinar was Ms. Jeewika Ranaweera. She discussed the different career prospects in the engineering field. Around 55 participants participated in this webinar. E-certificates were provided for all the participants.</p>
2.		<p>Our Electrical Club of St. Joseph's College of Engineering (Electrical &amp; Electronics Engineering) hosted the art festival "DOODLING DOO" on August 12, 2022. This exclusive event began at 10.40 am with all the club members present. It began with showcasing our student's hidden talents, and they were recognised with certificates for their excellent efforts throughout the event. With the enthusiasm of our students, the event went on. A photo session marked the program's conclusion.</p>

PIC: ELECTRICAL CLUB event poster

3.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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ARHA | NRI | IEEE | Cambridge

Counselling Code :1317

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ENSAV CLUB  
Organizes

**ALOHOMORA**  
Technical Fun Event

AUG 23

Register Here : <https://forms.gle/sNM5Y9GLxBKcqRRn9>

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Convenors**  
Dr. C. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academic, St. Joseph's College of Engineering  
Dr. Vaddi Seshagiri Rao M.A., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering  
Dr. A. Chandra Sekar M.B., Ph.D. Dean Research, St. Joseph's College of Engineering

**Staff Coordinators**  
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs  
Dr. M Venkatesh M.A. Associate Professor  
Dr. P Anbarasan M.Tech., Ph.D. Assistant Professor

**Student Coordinators**  
Godson S V Noble | Eureka S Singh | Nandi Varadhan | Mohana Santhosh | Arish Kumar | Kavi Priya | Navina | Linda Joyce | Ishwariya | Keerthana | Deepika

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882

PIC: ENSAV CLUB EVENT POSTER

Our Ensav club of St. Joseph's College of Engineering's (Electrical & Electronics Engineering) staged the art exhibit "ALOHOMORA" on August 23, 2022. At 2:00 a.m., all the club members began this exclusive event. The activity launched an investigation into our students' hidden talents. The excitement of our pupils helped the event to continue. A photo shoot wrapped up the program.

4.

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**Counselling Code : 1317**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**PEEK-A-BOO**  
AN EXPEDITIOUS EVENT  
ON AUGUST 20<sup>th</sup> 2022

**REGISTER HERE:**  
<https://forms.gle/SbKSkWslkvqJqT87>

**FOR 2<sup>nd</sup> YEARS**  
WINNERS WILL BE PROVIDED  
A HARDCOPY CERTIFICATE

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com.  
Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc.  
Executive Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.A., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering

**Convenors**  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - Lib Affairs

**STUDENT COORDINATORS**  
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RANJANIS ABINAYA PRIYA.R.A. VISHNU PRIYAS HARRY JAKIN.S. KAVIYA.P. SIVA MALAVAN.E.S. RAMYA.R.

**Coordinators**  
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Dean Academic, St. Joseph's College of Engineering  
Dr. A. Chandra Sekar M.E., Ph.D.  
Dean Research, St. Joseph's College of Engineering  
Dr. V. Vallinayagam M.Phil., Ph.D.  
Dean Student Affairs, St. Joseph's College of Engineering  
Mr. R. Elanthirayan M.Tech., (Ph.D.) Assistant Professor  
Ms. S. P. Vedavalli M.E. (Ph.D.) Assistant Professor

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**PIC: SOCIAL AWARENESS CLUB EVENT POSTER**

Our Social Awareness Club hosted the big Talent Exposing Competition "PEEK-A-BOO" On August 20,2022 at 10:20 a.m., all Our Club's members began the exclusive competition. The ceremony began by showcasing our students' talents, and they were recognized for their great efforts by receiving trophies and diplomas. The celebrations for our students kept going strong. The event concluded with a photo session.

5.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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OMR, Chennai - 119

**Counselling Code : 1317**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**QUICKESTA**  
A QUICK WITTED EVENT  
ON AUGUST 5<sup>th</sup> 2022

**REGISTER HERE:**  
<https://forms.gle/SbKSkWslkvqJqT87>

**FOR 3<sup>rd</sup> YEARS**  
WINNERS WILL BE PROVIDED A HARDCOPY CERTIFICATE

**Chief Patron**  
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Chairman, St. Joseph's Group of Institutions

**Patrons**  
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Managing Director, St. Joseph's Group of Institutions  
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Executive Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.A., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering

**Convenors**  
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Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - Lib Affairs

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**PIC: SOCIAL AWARENESS CLUB event poster**

Our Social Awareness Club hosted the "QUICKESTA" big talent expo, on August 5, 2022, at 1:00 PM, all Our Club's members began this unique competition. The ceremony began with showcasing our students' talents, and they were recognized for their exceptional efforts by receiving trophies and certificates. The celebrations for our students kept going strong with enthusiasm. The event concluded with a photo session.



6.

The poster is for an event titled "ROBONETICS" presented by the Robotics Club at St. Joseph's College of Engineering. The event is scheduled for August 26, 2022, from 10:20 AM to 11:40 AM in Block 5. It is open to 2nd and 3rd year students. The poster lists several dignitaries including a Chief Patron, Patrons, and a large group of coordinators. It also includes accreditation logos and a registration link.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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**28**  
Years of Excellence

ARITA, NETAJI, SRI LAKSHMI, RAAC, IEEE, NITF, Cambridge

Counselling Code :1317  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Robotics CLUB**  
presents

**REGISTER HERE**  
<https://bit.ly/3Rd92YG>

**26/08/2022**  
TIME-10:20-11:40  
VENUE-BLOCK 5

**ROBONETICS**

CERTIFICATES WILL BE PROVIDED

**OPEN**  
To all 2nd and 3rd Years

**Chief Patron**  
**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
**Mrs. B. Jessie Priya** M.Com  
Managing Director, St. Joseph's Group of Institutions  
**Mr. B. Shashi Sekar** M.Sc.  
Executive Director, St. Joseph's Group of Institutions  
**Dr. Vaddi Seshagiri Rao** M.E., M.B.A., Ph.D.  
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**Dr. G. Sreekumar** M.Sc., M.Tech., Ph.D.  
Dean Academics, St. Joseph's College of Engineering  
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Dean Student Affairs, St. Joseph's College of Engineering

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Professor & Head - Staff Affairs  
**Dr. T.V. Narmadha** M.E., Ph.D.  
Professor & Head - Lab Affairs  
**Co-Directors**  
**Dr. ANBARASAM P.** M.Tech., Ph.D.  
Assistant Professor / EEE  
**Mr. S. SIVAKUMAR**, M.E.  
Assistant Professor / EEE

**Stonewall Coordinators**  
DARSINI | BUYAVARAPU NAVEEN | NAVINA | KATHIRAVAN | CHRIS KEVIN | KARTHIK | CHRISTEL PEERIS | PRAVESH CHRISTO

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882.

**PIC: ROBOTICS CLUB event poster**

Our Robotics Club conducted a technical event called "ROBONETICS" On August 26, 2022, at 10:20 p.m., the members of our club began this private event. The event began to reveal our students' hidden talents, and they were recognized for their exceptional efforts by being awarded diplomas. The excitement\_of our pupils helped the event to continue. A photo shoot wrapped up the program.

7.

The poster is for an event organized by the Choppers Club at St. Joseph's College of Engineering. It features the college's logo at the top left, a '28th Anniversary' badge at the top right, and a row of accreditation logos (ABEIA, NTA, AV, IEEE, Cambridge, nif) in the middle. The event title 'Smart Electrics' is prominently displayed in pink. Below it, the date and time are given as 'FOR 3rd YEARS On 29th August, 2022 1.40-3.00PM'. A QR code and a registration link are provided. The poster lists the Chief Patron, Patrons, Coordinators, and Student Coordinators, along with contact information for admissions.

St. JOSEPH'S COLLEGE OF ENGINEERING  
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St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
OMR, Chennai - 119.  
COUNSELLING CODE : 1317

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**CHOPPERS CLUB**  
ORGANISES  
**Smart Electrics**

FOR 3rd YEARS  
On 29th August,  
2022  
1.40-3.00PM

REGISTER HERE  
<https://forms.gle/YXESJURJMBMCCG8P>

**WINNERS WILL BE PROVIDED A HARDCOPY CERTIFICATE**

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**

Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions	Dr. C. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions	Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering	Dr. V. Vallinayagam M.Phil., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering

**Coordinators**  
Mr. R. Elanthirayan M.Tech., (Ph.D.) Assistant Professor  
Ms. S. Gomathi M.E. (Ph.D.) Assistant Professor

**STUDENT COORDINATORS**  
MANIGANDAN MADHUMALINI DHINAKARAN HEMAA SHIVANATHAN RAMPRASATH  
HEMA APSARA AJITH ACHUTHA AYESHA PARVEEN

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in)  
or contact: +91 99401 04881 / +91 99401 04882

**PIC: CHOPPERS CLUB event poster**

Our Electrical & Electronics Engineering Choppers Club hosted the major Talent Exposing Competition "SMART ELECTRICALS" On August 29,2022, at 10:20 A.M., this special contest began. with each club member. The event began with showcasing the talents of our students, who were then recognised for their outstanding contributions to the event with prizes and diplomas. For our pupils, the celebrations were going strong. The program concluded with a photo session.

8.

*You Choose, We Do It*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 (An Autonomous Institution)  
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 Jeppiaar Educational Trust  
 OMR, Chennai - 119.

28  
 Years of Excellence

ARIIA  
 NBA  
 AICTE  
 IEEET  
 NIRF  
 Cambridge

Counselling Code :1317  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Robotics CLUB**  
 presents

18/08/2022 || 1:40 PM

VENUE-BLOCK 5

**ROBUSTA**

CERTIFICATES WILL BE PROVIDED

**Chief Patron**  
**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.  
 Chairman, St. Joseph's Group of Institutions

**Patrons**  
**Mrs. B. Jessie Priya** M.Com.  
 Managing Director, St. Joseph's Group of Institutions  
**Mr. B. Shashi Sekar** M.Sc.  
 Executive Director, St. Joseph's Group of Institutions

**Dr. Vaidi Seshagiri Rao** M.E., M.B.A., Ph.D.  
 Principal, St. Joseph's College of Engineering

**Dr. G. Sreekumar** M.Sc., M.Tech., Ph.D.  
 Dean Academics, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar** M.E., Ph.D.  
 Dean Research, St. Joseph's College of Engineering  
**Dr. V. Vallinayagam** M.Phil., Ph.D.  
 Dean Student Affairs, St. Joseph's College of Engineering

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 Professor & Head - Staff Affairs  
**Dr. T.V. Narmadha** M.E., Ph.D.  
 Professor & Head - Lab Affairs

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 Assistant Professor / EEE  
**Mr.S.SIVAKUMAR**, M.E.  
 Assistant Professor / EEE

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**PIC: ROBOTICS CLUB event poster**

Our Electrical & Electronics Engineering Robotics Club hosted the technical-fun event "ROBUSTA" on August 18, 2022. This special event began at 1:00 p.m. with all our club members present. It was designed to uncover our students' hidden talents, and they were recognized with certificates for their great contributions. With the enthusiasm of our students, the event went on. A picture session marked the program's conclusion.

9.



PIC: ISTE event poster

Our St. Joseph's ISTE Student Chapter hosted "BRAIN SCAVENGERS" on August 16, 2022, for second-year students. The event's major objective was to demonstrate one's capacity for reason, critical analysis, and problem solution. This contest consisted of three rounds. Around 44 students took part in this competition. The team that had the most players across all three rounds was the one that win. Merit Certificates were awarded to the winners as prizes. The program concluded with a photo session.

10.



PIC: ISTE event poster

On August 16, 2022, St. Joseph's ISTE Student Chapter from the Department of Electrical & Electronics Engineering organised a grand Talent Exposing Competition "MIND SWEEPERS." The competition began at 10:20 a.m. with all Our Club's members The event began by showcasing our students' talents, and they were recognized with awards and certificates for their contributions throughout the event, the program concluded with a photo section.



11.



PIC: IEEE event poster

IEEE Student Branch Chapter of St. Joseph's College of Engineering organized an International Webinar series "Space Exploration". It's a 2 day webinar series from August 15, 2022 to August 19, 2022. The first session was held on August 15, 2022 with one of our eminent resource personalities "Mr. George Salazar" on the topic "System Development Process for Space Exploration". The event was initiated with a welcome note by the student coordinators. After the Welcome Note, the speaker moves into his topic with the interactive session. After the 40 minutes of energizing session, the query session started. It was handled by our student coordinator and the speaker effectively answered the queries of the participants. The session ended with thank note to the speaker by our Student Branch Counsellor.

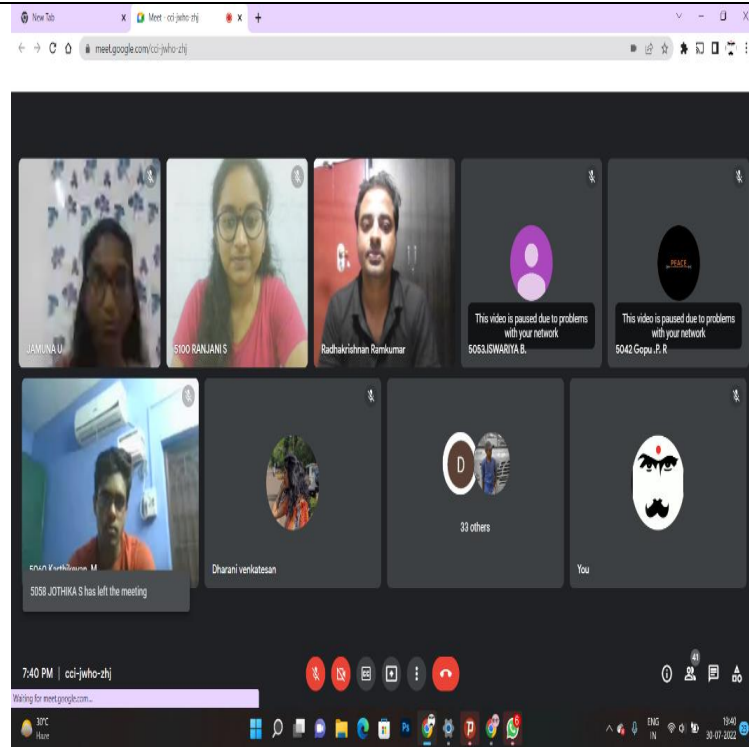
12.



PIC: IEEE event poster

IEEE Student Branch Chapter of St. Joseph's College of Engineering organized an International Webinar series "Space Exploration". It's a 2-day webinar series from August 15, 2022 to August 19, 2022. The first session was held on August 15, 2022 with one of our eminent resource personalities "Mrs. Apurva Jakhadi" on the topic "Opportunities and Prospects in Space Science & Technology". The event was initiated with a welcome note by the student coordinators. After the Welcome Note, the speaker moves into his topic with the interactive session. After the 60 minutes of energizing session, the query session started. It was handled by our student coordinator and the speaker effectively answered the queries of the participants. The session ended with thank note to the speaker by our Student Branch Counsellor.

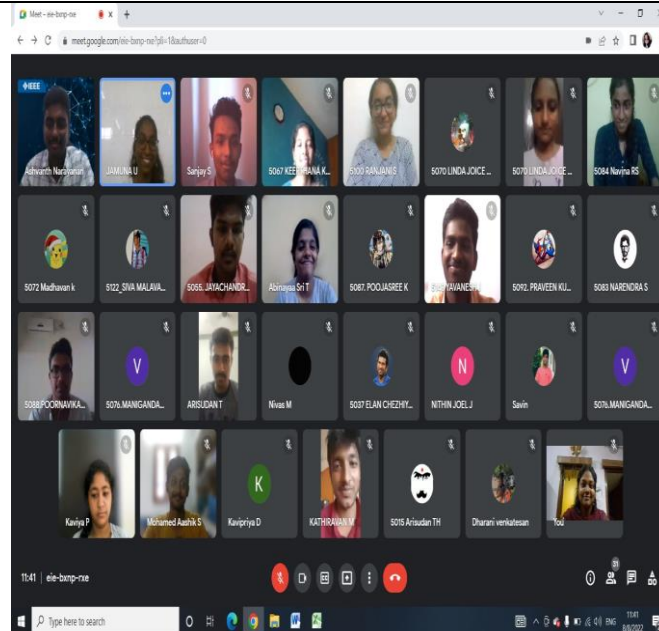
13.



**PIC: IEEE event screenshot**

The “Network with a Star” is a webinar conducted by IEEE SJCE SBC on 30<sup>th</sup> July 2022. A total of 45 Participants attended the webinar. The Speaker Mr.R.Radhakrishnan shared his insights on various opportunities for Electrical and Electronics Engineers to pursue their dream career and gave clear ideas to how to develop and improve their skills in their favorite domains to achieve a bright future. Then, the speaker answered the questions posted by the participants in the chat box for brief period of 20 minutes and the webinar session ends with sharing the E-memento to the speaker for his gratitude of sharing his thoughts about the various opportunities and development of skills for electrical and electronics engineers.

14.



**PIC: IEEE event screenshot**

The “Network with a Star” is a webinar conducted by IEEE SJCE SBC on 8<sup>th</sup> August 2022. A total of 50 Participants attended the webinar. The Presenter Mr. Ashwanth B was a IEEE Young Professional Member in Madras Section. He explained the significance of IEEE Young Professionals (YP) and the steps one might take to advance their career there. He drew the students in and provided them some advice on how to develop their talents using IEEE. He contributed some ideas for effective time management. He then responded in-depth to the queries posed by the attendees in the meet. The webinar session concludes with the speaker receiving an E-memento in appreciation of his willingness to share his views on IEEE YP and inspire us.



15.



**PIC: NGO photograph with Ill yr B section**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) - nongovernmental organization arranged a visit on 6<sup>th</sup> August 2022 for the students of third year (B section). They had a visit to an orphanage nearby our college. Our college offered special lunch to all the inmates of the orphanage. Students are provided with transport facilities to visit the homes on activity Saturdays. They also spent their pocket money in a useful manner by offering the needy things like rice bags, groceries, toys, clothes, pillows etc. for the inmates. NGO activities bring out the hidden potentials of the young mind to service the needy people and make them a responsible citizen. They gain an exposure to the downtrodden lifestyle which is the need of the hour for our country's development

16.



**PIC: NGO photograph with Ilyr B section**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering)- nongovernmental organization arranged a visit on 13<sup>th</sup> August 2022 for the students of second year (B section). They had a visit to an old age home near by our college. Our college offered special lunch to all the inmates of the old age homes. Students are provided with transport facilities to visit the homes on activity Saturdays. They also spent their pocket money in a useful manner by offering the needy things like rice bags, groceries, toys, clothes, pillows etc. for the inmates. NGO activities bring out the hidden potentials of the young mind to service the needy people and make them a responsible citizen. They gain an exposure to the downtrodden lifestyle which is the need of the hour for our country's development.

17.



*PIC: NGO photograph with Ilyr B section*

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) - nongovernmental organization arranged a visit on 13<sup>th</sup> August 2022 for the students of second year (B section). They had a visit to a old age home near by our college. Our college offered special lunch to all the inmates of the old age homes. Students are provided with transport facilities to visit the homes on activity Saturdays. They also spent their pocket money in a useful manner by offering the needy things like rice bags, groceries, toys, clothes, pillows etc. for the inmates. NGO activities bring out the hidden potentials of the young mind to service the needy people and make them a responsible citizen. They gain an exposure to the downtrodden lifestyle which is the need of the hour for our country's development.



18.



**PIC: NGO photograph with Ilyr A Section**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) - nongovernmental organization arranged a visit on 20<sup>th</sup> August 2022 for the students of second year (A section). They had a visit to an orphanage nearby our college. Our college offered special lunch to all the inmates of the orphanage. Students are provided with transport facilities to visit the homes on activity Saturdays. They also spent their pocket money in a useful manner by offering the needy things like rice bags, groceries, toys, clothes, pillows etc. for the inmates. NGO activities bring out the hidden potentials of the young mind to service the needy people and make them a responsible citizen. They gain an exposure to the downtrodden lifestyle which is the need of the hour for our country's development

19.



**PIC: NGO photograph with Ilyr C Section**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) - nongovernmental organization arranged a visit on 27<sup>th</sup> August 2022 for the students of second year (C section). They had a visit to an orphanage nearby our college. Our college offered special lunch to all the inmates of the orphanage. Students are provided with transport facilities to visit the homes on activity Saturdays. They also spent their pocket money in a useful manner by offering the needy things like rice bags, groceries, toys, clothes, pillows etc. for the inmates. NGO activities bring out the hidden potentials of the young mind to service the needy people and make them a responsible citizen. They gain an exposure to the downtrodden lifestyle which is the need of the hour for our country's development.

20.



**PIC: INDUSTRIAL VISIT photograph with III Yr A section**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) arranged an industrial visit on 07<sup>th</sup> August 2022 for the students of third year (A section). They had a visit to the TVS Training Services and Limited company nearby our college. Industrial visit is an opportunity for the students to gain firsthand knowledge on the functioning of the industries and to get the feel of an industrial setup. Also, it is a chance to interact with the experienced people and observe the practical applications of what is theoretically learnt. The students were exposed to many industries in electrical core this year.

21.



**PIC: INDUSTRIAL VISIT photograph with III yr B section**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) arranged an industrial visit on 13<sup>th</sup> August 2022 for the students of third year (B section). They had a visit to the TVS Training Services and Limited company nearby our college. Industrial visit is an opportunity for the students to gain firsthand knowledge on the functioning of the industries and to get the feel of an industrial setup. Also, it is a chance to interact with the experienced people and observe the practical applications of what is theoretically learnt. The students were exposed to many industries in electrical core this year.



22.



**PIC: INDUSTRIAL VISIT photograph with Ilyr C section**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) arranged an industrial visit on 20<sup>th</sup> August 2022 for the students of third year (C section). They had a visit to the TVS Training Services and Limited company nearby our college. Industrial visit is an opportunity for the students to gain firsthand knowledge on the functioning of the industries and to get the feel of an industrial setup. Also, it is a chance to interact with the experienced people and observe the practical applications of what is theoretically learnt. The students were exposed to many industries in electrical core this year.

23.



**PIC: INDUSTRIAL VISIT photograph with Ilyr C section**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) arranged an industrial visit on 27<sup>th</sup> August 2022 for the students of second year (C section). They had a visit to the Aavin milk factory company nearby our college. Industrial visit is an opportunity for the students to gain firsthand knowledge on the functioning of the industries and to get the feel of an industrial setup. Also, it is a chance to interact with the experienced people and observe the practical applications of what is theoretically learnt. The students were exposed to many industries in electrical core this year.

24.



**PIC: INDUSTRIAL VISIT photograph with II YR A section**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) arranged an industrial visit on 27<sup>th</sup> August 2022 for the students of second year (A section). They had a visit to the Aavin milk factory company nearby our college. Industrial visit is an opportunity for the students to gain firsthand knowledge on the functioning of the industries and to get the feel of an industrial setup. Also, it is a chance to interact with the experienced people and observe the practical applications of what is theoretically learnt. The students were exposed to many industries in electrical core this year.

25.



**PIC: INDUSTRIAL VISIT photograph with Ilyr B section**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) arranged an industrial visit on 27<sup>th</sup> August 2022 for the students of second year (B section). They had a visit to the Aavin milk factory company nearby our college. Industrial visit is an opportunity for the students to gain firsthand knowledge on the functioning of the industries and to get the feel of an industrial setup. Also, it is a chance to interact with the experienced people and observe the practical applications of what is theoretically learnt. The students were exposed to many industries in electrical core this year.



26.

St. JOSEPH'S COLLEGE OF ENGINEERING  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
GMR, Chennai - 119.

COUNSELLING CODE : 1317  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organises

**GUEST LECTURE ON**  
RECENT CHALLENGES AND OPPORTUNITIES IN WIND POWER GENERATION

**RESOURCE PERSON**  
**DR. N. KARUNAMOORTHY,**  
FOUNDER/ MANAGING DIRECTOR,  
WINDPLUS PVT LTD  
COIMBATORE-641048

Date 29/08/2022  
Time 12.00 pm to 1.30 pm

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. B. Jessie Priya M.Com.  
Managing Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering  
Mr. B. Shashi Sekar M.Sc.  
Executive Director, St. Joseph's Group of Institutions

**Dr. G. Sree Kumar M.Sc., M.Tech., Ph.D.**  
Dean Academics  
**Dr. A. Chandra Sekar M.E., Ph.D.**  
Dean Research  
**Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D.**  
Dean Student Affairs

**CONVENORS**  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs  
Dr. T. V. Narmadha M.E., Ph.D.  
Professor & Head - Lab Affairs  
Dr. V. Chandrasekhar M.E., M.B.A., Ph.D.  
Associate Professor / EEE  
Dr. V. Krishnakumar M.Tech., Ph.D.  
Associate Professor / EEE

\*For Admissions: Visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or Contact: 9940104881 / 9940104882

**PIC: GUEST LECTURE poster**

St. Joseph's college of engineering, department of Electricals and Electronics engineering organized a guest lecture for our II-year students on the topic "Recent Challenges and opportunities in Wind power Generation" on 29-08-2022 between 12.20 P.M to 1.40 P.M. at Library AV Hall.

27.

IEEE CANADIAN JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING

## Performance Enhancement of Grid Integrated Photovoltaic System Using Luo Converter Amélioration de performance du système photovoltaïque intégré au réseau à l'aide du convertisseur Luo

P. Anbarasan<sup>✉</sup>, M. Venmathi, M. Vijayaragavan, and V. Krishnakumar

**Abstract**—The main aim of this article is to implement a novel active power decoupling-based Luo converter for the weak grid system interfacing photovoltaic (PV) system. The modified Perturb and Observe (P&O) algorithm has been used for maximum power extraction from the PV source. The proposed system is capable of operating in the standalone mode and the grid-connected mode. The Luo converter is promising with the viewpoint of low inrush current, high voltage gain, small ripples along with high power density, high efficiency, and simple structure. Hence, the Luo converter has been used for maximum power extraction from the PV source, which is appropriate for both grid-tied and islanding modes of operation. The modified P&O algorithm has been used for maximum power extraction. The proposed MPPT technique reduces the drift problem, which occurs in the conventional MPPT methods by including the data of change in current ( $\Delta I$ ) in addition to the data used in the conventional P&O algorithm. This extraction has achieved by using a novel decoupling method, which, in turn, reduces the size of the filter. The converter along with the decoupling method also ensures reduced harmonics at the grid output. The operational principle and the stability analysis of the proposed converter have been analyzed in different modes of operation, such as grid-connected mode and standalone. The simulation has been carried out in MATLAB/Simulink environment. The implementation of the converter is carried out using a microcontroller-based prototype model to validate the performance. The efficiency of the proposed converter has been calculated to be 87.53% when operating under the grid-connected mode, whereas the efficiency is 92.46% when operating under the standalone mode.

**PIC: journal publication**

Our staff members Dr.P. Anbarasan, Dr.M. Venmathi, and Dr.V. Krishnakumar, published paper title on "Performance Enhancement of Grid Integrated Photovoltaic System Using Luo Converter" in IEEE Canadian Journal of Electrical and Computer Engineering, 2022, doi: 10.1109/ICJECE.2022.3178696.

28.

(12) PATENT APPLICATION PUBLICATION	(21) Application No:202241043385 A
(19) INDIA	
(22) Date of filing of Application :28/07/2022	(43) Publication Date : 19/08/2022

(54) Title of the invention : MODERN ELECTRIC FUSE TO AVOID ELECTRIC ARC TO ENSURE SAFETY IN A MOTOR VEHICLE

(71)Name of Applicant :  
**UMA.NISHANT**  
 Address of Applicant: Assistant Professor, Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering, OMR, Chennai-119 Mail Id: [umahelectrical@gmail.com](mailto:umahelectrical@gmail.com) Ph:991712788

(72)Name of Inventor :  
**UMA.NISHANT**  
 Address of Applicant: Assistant Professor, Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering, OMR, Chennai-119 Mail Id: [umahelectrical@gmail.com](mailto:umahelectrical@gmail.com) Ph:991712788

(31) International classification: H01H13/00, H01H97/00  
 (32) International Application No: PCT/IN/2022/00000, H01H13/00000  
 (33) International Publication No: NA  
 (34) Patent of Addition to Application Number: NA  
 (35) Divisional Application Number: NA

(57) Abstract:  
 One type of fuse currently known and used in motor vehicles is the so-called MDR fuse. This fuse has a first contact metal portion, a second contact metal portion, a necking section connecting the first contact portion with the second contact portion to form a single metal part. In this invention, a safety fuse is provided by using the second contact portion, the necking section, and the first contact portion to on a common plane. The necking section is necked by a necking section of a non-conductive material, preferably polymeric material. At least part of the first contact portion and at least part of the second contact portion freely protrude from the casing along the same direction in respective opposite directions. The casing protrudes with respect to the common plane on both sides of the plane, on about the same distance from the plane on both sides.

No. of Pages : 11 No. of Claims : 3

**PIC: Patent**

Our staff members Mr.S.NISHANT, Dr.P.Velmurugan, Dr.N.Chidambararaj, Mr.K.Aravindhan, Mr.R.Srekanth, Mr.S.S.Harish, Dr.S.Sridharan, & Mr.N.Jeyaprakash published a patent on the topic “MODERN ELECTRIC FUSE TO AVOID ELECTRIC ARC TO ENSURE SAFETY IN A MOTOR VEHICLE” on 19/08/2022.

29. **PLACEMENT DETAILS FOR THE MONTH OF AUGUST 2022**

Total No of students placed = 46 UG Students  
 Total No of Offers = 52 Offers  
 Total No of Eligible Students (UG) = 160  
 Total No of Eligible Students (PG) = 06  
 % of students Placed (UG) = 46/160 = 28.75 %  
 % of students Placed (PG) = NIL



Our IV-year student SHRESHTH TARUN MUKUND had Won cash price of Rs 10,000/- and BRONZE medal in 3rd STATE LEVEL VOLLEYBALL Tournament organized by Karur district Volleyball Association held at Karur on 15.07.2022 – 17.07.2022.

31.



PIC: student with trophy

Our student SHRESHTH TARUN MUKUND who had Won cash price of Rs 40,000/- and SILVER medal in STATE LEVEL VOLLEYBALL TOURNAMENT- 2022 organized by MANSOOR VOLLEYBALL CLUB THITTACHERY AND NAGAPATTINAM DISTRICT VOLLEYBALL ASSOCIATION held at GHSS, THITTACHERY on 29.07.2022 – 31.07.2022.

32.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
OMR, Chennai - 119.

**28**  
Years of Excellence  
Since 1994

**Counselling Code : 1317**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Organises**  
**MEMES CONTEST**

Participants are required to submit a Meme based on any of the category given below.

01/08/2022 : Corona  
 02/08/2022 : Technology  
 03/08/2022 : Save Earth  
 04/08/2022 : Save Energy  
 05/08/2022 : Save Water

**To Upload**

- Please keep a good resolution in your submissions.
- We will judge the submissions especially by originality and overall humor.
- Meme Photo should be in .jpg or .jpeg format with file size not more than 5 MB.
- Save the meme with your full name  
<https://forms.gle/5wbp8jpWagekGhnRA>

**Exclusively for Higher Secondary & Diploma Students**  
E-Certificates will be provided to all the participants

**Chief Patron**  
**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**

<p><b>Mrs. S. Jessie Priya</b> M.Com. Managing Director, St. Joseph's Group of Institutions</p> <p><b>Mr. B. Shashi Sekar</b> M.Sc. Executive Director, St. Joseph's Group of Institutions</p> <p><b>Dr. Vaidi Seshagiri Rao</b> M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering</p>	<p><b>Dr. C. Sreekumar</b> M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering</p> <p><b>Dr. A. Chandra Sekar</b> M.E., Ph.D. Dean Research, St. Joseph's College of Engineering</p> <p><b>Dr. V. Vallinayagam</b> M.Phil., Ph.D. Dean Students Affairs, St. Joseph's College of Engineering</p>
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**Convenors**

<p><b>Dr. Jayarama Pradeep</b> M.E., Ph.D. Professor &amp; Head - Staff Affairs</p>	<p><b>Dr. T.V. Narmadha</b> M.E., Ph.D. Professor &amp; Head - Lab Affairs</p>
---	--

**Staff Coordinator**  
**Mr. R. Elanthirayan** M.Tech., Ph.D.  
Assistant Professor

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in)  
or contact: +91 92401 04880 / +91 92401 04882.

Our department of electrical and electronics engineering in association with the social Awareness club conducted a five-day online memes contest exclusively for higher secondary and diploma students. The participants submitted a meme based on the topics given by the coordinators. There were around 70 participants from various schools, the memes submitted had both humor and a moral. It was an online submission event. The first day was based on the topic corona, followed by technology, save earth, save energy, and save water. The winner was awarded with a merit certificate.

*PIC: School event poster*

33.

## FDP FOR THE MONTH OF AUGUST 2022

**DR.V.KRISHNA KUMAR**

Participated in the International Faculty Development Program on “Futuristic Research in Mechanical Engineering” organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram Campus, Chennai from 08th August to 13th August 2022.

**DR.P.ANBARASAN**

Participated in the International Faculty Development Program on “Futuristic Research in Mechanical Engineering” organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram Campus, Chennai from 08th August to 13th August 2022.

**MR. C.VENKATESH KUMAR**

Participated in the International Faculty Development Program on “Futuristic Research in Mechanical Engineering” organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram Campus, Chennai from 08th August to 13th August 2022.

Participated in the Faculty Development Program on “Emerging technologies in renewable energy for sustainable environment” organized by Department of EEE, RVS college of Engineering and Technology in association with University Teknologi MARA(UiTM) held from 23rd August to 27th August 2022.

**Ms.R.G. NIRMALA**

participated in the International Faculty Development Program on “Futuristic Research in Mechanical Engineering” organized by Department of Mechanical Engineering, SRM Institute of Science and Technology, Ramapuram Campus, Chennai from 08th August to 13th August 2022.

**Mr. ARAVINDHAN K.**



		<p>participated in the International Faculty Development Program on “EMERGING TECHNOLOGIES IN RENEWABLE TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT” organized, by department of electrical and electronics engineering, RVS COLLEGE Chennai from 23 to 27 august 2022.</p> <p>Dr. CHIDAMBARARAJ N</p> <p>participated in the International Faculty Development Program on “EMERGING TECHNOLOGIES IN RENEWABLE TECHNOLOGY FOR SUSTAINABLE DEVELOPMENT” organized, by department of electrical and electronics engineering, Chennai from 23 to 27 august 2022.</p>
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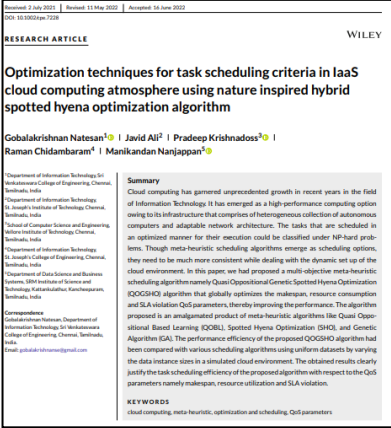
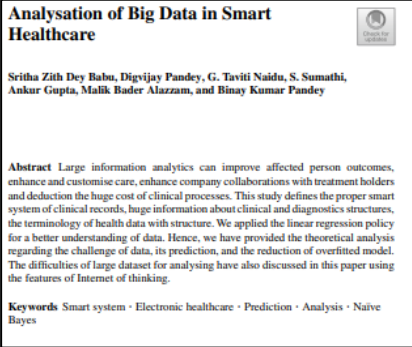
## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING


Sl. No.	Title	Detail					
1	<b>Webinar/ FDP Attended By Faculty</b>	S.No	Faculty Name	Date	Webinar /Fdp attended/ workshop	Conducting agency	No. of days
		1.	Senthil Kumar B	03.08.2022	FDP-Innovation Ambassador tarinning Foundation Level  <a href="https://drive.google.com/file/d/1aY63iuKQA5GH8fHjU1LXo_pzDS_ua25VZ/view?usp=sharing">https://drive.google.com/file/d/1aY63iuKQA5GH8fHjU1LXo_pzDS_ua25VZ/view?usp=sharing</a>	AICTE & Institutions Innovation Council	05
		2.	Sankaran D	08/08/2022 to 18/08/2022	TWO WEEKS ONLINE INTERNATIONAL FDP ON COMPUTER VISION AND NATURAL LANGUAGE PROCESSING  <a href="https://drive.google.com/file/d/1">https://drive.google.com/file/d/1</a>	Department of Information Technology, Easwari Engineering College, Chennai	11

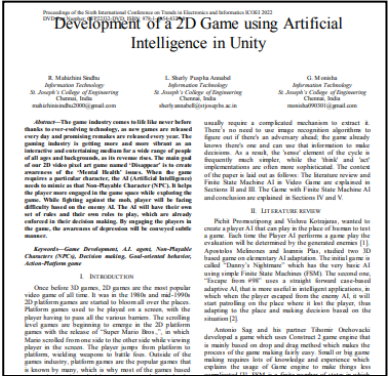

				<a href="https://www.google.com/search?q=BfluKYPrAkZZwgs8uHJAs5UtgS--2J9F/view?usp=sharing">BfluKYPrAkZZwgs8uHJAs5UtgS--2J9F/view?usp=sharing</a>		
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# DEPARTMENT OF INFORMATION TECHNOLOGY


Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	 <p style="text-align: center;">Co-author Dr. C. J. Raman published paper in <b>Annexure I (Impact Factor: 1.831)</b></p>	<p>N. Gobalakrishnan, L. Javid Ali, K. Pradeep, <b>C. J. Raman</b>, N. Manikandan, “Optimization Techniques for Task Scheduling Criteria in IaaS Cloud Computing Atmosphere using Nature Inspired Hybrid Spotted Hyena Optimization Algorithm”, <i>Concurrency and Computation Practice and Experience</i>, Publisher: Wiley, E ISSN:1532-0634, <a href="https://doi.org/10.1002/cpe.7228">https://doi.org/10.1002/cpe.7228</a>, July 2022. (<b>Impact Factor: 1.831, SCI Extended, Annexure-I</b>).</p> <p><b>Abstract:</b> Cloud computing has garnered unprecedented growth in recent years in the field of Information Technology. It has emerged as a high-performance computing option owing to its infrastructure that comprises of heterogeneous collection of autonomous computers and adaptable network architecture. The tasks that are scheduled in an optimized manner for their execution could be classified under NP-hard problems. Though meta-heuristic scheduling algorithms emerge as scheduling options, they need to be much more consistent while dealing with the dynamic set up of the cloud environment. In this paper, we had proposed a multi-objective meta-heuristic scheduling algorithm namely Quasi Oppositional Genetic Spotted Hyena Optimization (QOGSHO) algorithm that globally optimizes the makespan, resource consumption and SLA violation QoS parameters, thereby improving the performance. The algorithm proposed is an amalgamated product of meta-heuristic algorithms like Quasi Oppositional Based Learning (QOBL), Spotted Hyena Optimization (SHO), and Genetic Algorithm (GA). The performance efficiency of the proposed QOGSHO algorithm had been compared with various scheduling algorithms using uniform datasets by varying the data instance sizes in a simulated cloud environment. The obtained results clearly justify the task scheduling efficiency of the proposed algorithm with respect to the QoS parameters namely makespan, resource utilization and SLA violation.</p>
2	 <p style="text-align: center;">Co-author <b>Dr. S. Sumathi</b> published Lecture Notes in Computational Vision and Biomechanics</p>	<p>S. Z. D. Babu, D. Pandey, G. Taviti Naidu, <b>S. Sumathi</b>, A. Gupta, M. B. Alazzam and B. K. Pandey “Analysation of Big Data in Smart Healthcare”, <i>Artificial Intelligence on Medical Data, Lecture Notes in Computational Vision and Biomechanics</i>, Publisher: Springer, Online ISBN: 978-981-19-0151-5, Print ISBN: 978-981-19-0150-8, Vol. 37, pp. 243–251, <a href="https://doi.org/10.1007/978-981-19-0151-5_21">https://doi.org/10.1007/978-981-19-0151-5_21</a>, pp 243–251, July 2022.</p> <p><b>Abstract:</b> Large information analytics can improve affected person outcomes, enhance and customise care, enhance company collaborations with treatment holders and deduction the huge cost of clinical processes. This study defines the proper smart system of clinical records, huge information about clinical and diagnostics structures, the terminology of health data with structure. We applied the linear regression policy for a better understanding of data. Hence, we have provided the theoretical analysis regarding the challenge of data, its prediction, and the reduction of overfitted model. The difficulties of large dataset for analysing have also discussed in this paper using the features of Internet of thinking.</p>

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
3	<div data-bbox="268 289 661 641" style="border: 1px solid black; padding: 5px;"> <p><b>A Database Application of Monitoring COVID-19 in India</b></p>  <p>Vishali Pathania, Sritha Zith Dey Babu, Shahanawaj Ahamad, P. Thilakavathy, Ankur Gupta, Malik Bader Alazzam, and Digvijay Pandey</p> <p><b>Abstract</b> A quick user-friendly application of any pandemic situation can reduce the huge value of mortality with producing the graph of cases. Simple database application can make sense to the people about the pandemic and transmissions. This research aimed to develop a simple application which shows the real-time cases of COVID-19 and analyzes different states condition of India and a proper graphical prediction of cases. This application notifies people to get alert about the transmission and precautions to get rid of this pandemic. This application also helps clinical doctors, ministry and decision makers to improve the gap of any unfilled section. We have used the platform of APEX Oracle to develop this application and analyzed the dataset. The accuracy of the data is 78% rather than any other existing techniques. Combining the application and advance techniques, this study can create a vital framework for the prediction of any pandemics.</p> <p><b>Keywords</b> Oracle · Database application · COVID-19 · Apex · SQL</p> </div> <p>Co-author <b>Ms. P. Thilakavathy</b> published Lecture Notes in Computational Vision and Biomechanics</p>	<p>V. Pathania, S. Z. D. Babu, S. Ahamad, <b>P. Thilakavathy</b>, A. Gupta, M. B. Alazzam and D. Pandey, “A Database Application of Monitoring COVID-19 in India”, In Artificial Intelligence on Medical Data, Lecture Notes in Computational Vision and Biomechanics, Publisher: Springer, Online ISBN: 978-981-19-0151-5, Print ISBN: 978-981-19-0150-8, Vol. 37, <a href="https://doi.org/10.1007/978-981-19-0151-5_23">https://doi.org/10.1007/978-981-19-0151-5_23</a> pp. 267-274, July 2023.</p> <p><b>Abstract:</b> A quick user-friendly application of any pandemic situation can reduce the huge value of mortality with producing the graph of cases. Simple database application can make sense to the people about the pandemic and transmissions. This research aimed to develop a simple application which shows the real-time cases of COVID-19 and analyzes different states condition of India and a proper graphical prediction of cases. This application notifies people to get alert about the transmission and precautions to get rid of this pandemic. This application also helps clinical doctors, ministry and decision makers to improve the gap of any unfilled section. We have used the platform of APEX Oracle to develop this application and analyzed the dataset. The accuracy of the data is 78% rather than any other existing techniques. Combining the application and advance techniques, this study can create a vital framework for the prediction of any pandemics.</p>
4	<div data-bbox="268 820 661 1226" style="border: 1px solid black; padding: 5px;"> <p>IEEE International Conference on IoT and Blockchain Technologies 09-08, May, 2022</p> <p><b>QEnergy and SARSAEnergy Learning for Energy efficient Routing in Wireless Sensor Networks</b></p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="304 917 451 982"> <p>Anslam Sibi S Assistant Professor Department of Information Technology St. Joseph's Institute of Technology Chennai, Tamilnadu E-mail: <a href="mailto:anslam.sibis@gmail.com">anslam.sibis@gmail.com</a></p> </div> <div data-bbox="493 917 640 982"> <p>Sherly Puspha Annabel L. Professor Department of Computer Science and Engineering St. Joseph's College of Engineering Chennai, Tamilnadu. E-mail: <a href="mailto:sherypusphal@gmail.com">sherypusphal@gmail.com</a></p> </div> </div> <p><b>Abstract</b>—Wireless sensor network nodes will be located at varying distances in the network, and the data travel between each node requires the shortest path to transmit data. In data transmission, when a particular node is active for a long time, it will lead to energy depletion and the node will remain active based on residual energy. Reinforcement learning with the Markov model assigns rewards for the best path taken to transmit data between nodes. The nodes are located randomly with the Erdos-Renyi random graph model, which is a stochastic graph. The energy consumption depends on the amount of data transmitted and how long the particular node is active. The proposed Q<sub>Energy</sub>-Learning and SARSA<sub>Energy</sub> algorithms can be used to calculate energy consumption in the wireless sensor network with rewards. The proposed work efficiency is evaluated by taking into account various WSN infrastructure and calculating energy consumption. The agent learns its environment and transmits data packets, and its performance is compared to that of various algorithms in different network infrastructures.</p> <p><b>Keywords</b>— Wireless Sensor Network, Erdos-Renyi random graph, Q<sub>Energy</sub>-Learning and SARSA<sub>Energy</sub> algorithm</p> <p>consumption of each node can be predicted before transmitting data through it. Machine learning algorithms are used in various applications, mainly in healthcare and the military where human intervention is not possible to perform the activities. In this case, data sensed from different sensors is used to predict the results. In the same way, various machine learning algorithms can be used in WSN to predict the shortest path, energy consumption, necessary constraints, and so on. In this paper, WSN with ML is used to minimize the energy consumption in nodes while routing the data.</p> <p><b>II. RELATED WORKS</b></p> <p>Observing the delays can help you find the best data routing path. For routing decisions [1], a combinatorial bandit optimization problem is considered. The edge constrained routing protocol solves the routing problem in multi-field, including delivery to subgraphs and networks that are only intermittently connected [2]. An abstract modeling approach for considering Rayleigh fading and shadowing channel models in uncorrelated and temporally correlated channels, an empirical</p> </div> <p><b>L. Sherly Puspha Annabel</b> published a paper in International Conference on IoT and Blockchain Technology</p>	<p>S. Anslam Sibi and <b>L. Sherly Puspha Annabel</b>, "QEnergy and SARSAEnergy Learning for Energy efficient Routing in Wireless Sensor Networks," 2022 International Conference on IoT and Blockchain Technology (ICIBT), Publisher: IEEE, E ISBN:978-1-6654-2416-5, Print ISBN:978-1-6654-2417-2, pp. 1-5, doi: 10.1109/ICIBT52874.2022.9807754. June 2022. (<b>Indexed in Scopus</b>)</p> <p>Wireless sensor network nodes will be located at varying distances in the network, and the data travel between each node requires the shortest path to transmit data. In data transmission, when a particular node is active for a long time, it will lead to energy depletion and the node will remain active based on residual energy. Reinforcement learning with the Markov model assigns rewards for the best path taken to transmit data between nodes. The nodes are located randomly with the Erdos-Renyi random graph model, which is a stochastic graph. The energy consumption depends on the amount of data transmitted and how long the particular node is active. The proposed QEnergy-Learning and SARSAEnergy algorithms can be used to calculate energy consumption in the wireless sensor network with rewards. The proposed work efficiency is evaluated by taking into account various WSN infrastructure and calculating energy consumption. The agent learns its environment and transmits data packets, and its performance is compared to that of various algorithms in different network infrastructures.</p>

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5	 <p style="text-align: center;"><b>R. Mahizhini Sindhu, L. Sherly Puspha Annabel, G. Monisha</b> published a paper in International Conference on Trends in Electronics and Informatics</p>	<p style="text-align: center;"><b>(Staff and Student Publication)</b></p> <p><b>R. Mahizhini Sindhu, L. Sherly Puspha Annabel, G. Monisha</b>, "Development of a 2D Game using Artificial Intelligence in Unity," 2022 6th International Conference on Trends in Electronics and Informatics (ICOEI), Publisher: IEEE, E ISBN:978-1-6654-8328-5, Print ISBN:978-1-6654-8329-2, pp. 1031-1037, doi: 10.1109/ICOEI53556.2022.9776750, May 2022. <b>(Indexed in Scopus)</b></p> <p><b>Abstract:</b> The game industry comes to life like never before thanks to ever-evolving technology, as new games are released every day and promising remakes are released every year. The gaming industry is getting more and more vibrant as an interactive and entertaining medium for a wide range of people of all ages and backgrounds, as its revenue rises. The main goal of our 2D video pixel art game named 'Disappear' is to create awareness of the 'Mental Health' issues. When the game requires a particular character, the Artificial Intelligence needs to mimic as that Non-Playable Character. It helps the player more engaged in the game space while exploring the game. While fighting against the mob, player will be facing difficulty based on the enemy AI. The AI will have their own set of rules and their own roles to play, which are already enforced in their decision making. By engaging the players in the game, the awareness of depression will be conveyed subtle manner.</p>
6	 <p style="text-align: center;"><b>Patent published by Dr. S. Sumathi</b></p>	<p style="text-align: center;"><b>Patent Published</b></p> <p><b>Title of the invention: Name of Inventors :</b> Artificial Intelligence Based Drug Discovery Technique to Analyze the Impact of Existing Drugs for Brain Tumours and Paving Way for New Efficacious Drug</p> <p><b>Name of Inventors :</b></p> <ol style="list-style-type: none"> <li>1. Dr. Inamul Hasan Madar</li> <li>2. Dr. P. Thirumalai Vasan</li> <li>3. Dr. Sweety Lanjhiyana</li> <li>4. Dr. S. K. Lanjhiyana</li> <li>5. Dr. K. Himabindu</li> <li>6. Dr. Ananta Charan Ojha</li> <li>7. <b>Dr. S. Sumathi</b></li> <li>8. V. Kandasamy</li> </ol> <p><b>Patent Number:</b> 202241042626  <b>Filing Date:</b> 26/07/2022  <b>Publication Date:</b> 12/08/2022</p>


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7	 <p>Patent published by <b>Dr. D. Logeshwari</b></p>	<p align="center"><b><u>Patent Published</u></b></p> <p><b>Title of the invention: Name of Inventors :</b> Design System of Sensor-Driven AI-based Agriculture Recommendation Model for Land Suitability of Planting</p> <p><b>Name of Inventors :</b></p> <ol style="list-style-type: none"> <li>1. Dr. B. Chellaprabha</li> <li>2. <b>Dr. Logeshwari Dhavamani</b></li> <li>3. Dr. L. Ramesh</li> <li>4. Dr. D. Jebakumar Immanuel</li> <li>5. Mr. V. Ramalingam</li> <li>6. Mr. A. Wasim Raja</li> <li>7. Ms. N. Ganitha Aarthi</li> <li>8. Ms. V. Vaishnavee</li> </ol> <p><b>Patent Number:</b> 202241023964  <b>Filing Date:</b> 22/04/2022  <b>Publication Date:</b> 06/05/2022</p>										
8	 <p>FDP Certificate</p>	<p align="center"><b>Seminar/ FDP Attended by Faculty</b></p> <table border="1" data-bbox="724 941 1984 1161"> <thead> <tr> <th>S.No</th> <th>Title of the topic</th> <th>Name of the Staff</th> <th>Conducted By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Two weeks online international FDP on Recent Trends in Computer Vision and Natural Language Processing</td> <td>Dr. S. Sumathi</td> <td>Easwari Engineering College, Chennai</td> <td>8-8-2022 to 18-8-2022 (2 weeks)</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	Two weeks online international FDP on Recent Trends in Computer Vision and Natural Language Processing	Dr. S. Sumathi	Easwari Engineering College, Chennai	8-8-2022 to 18-8-2022 (2 weeks)
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## DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	<p>FDP Attended:</p> 	<ul style="list-style-type: none"> <li>➤ Dr.N..E.Arunkumar attended International FDP on “Futuristic Research in mechanical Engineering” during 08<sup>th</sup> August 2022 to 13<sup>th</sup> August 2022 organised by SRM Institute of Science and technology.</li> <li>➤ Dr.R.Selvam attended International FDP on “Futuristic Research in mechanical Engineering” during 08<sup>th</sup> August 2022 to 13<sup>th</sup> August 2022 organised by SRM Institute of Science and technology.</li> <li>➤ Mr.P.PremKumar attended FDP on “Advance Research in Friction Welding and its Engineering applications” organised by Rajalakshmi Engineering College. During 25<sup>th</sup> Aug to 27<sup>th</sup> Aug 2022.</li> <li>➤ Dr.M.Arun attended FDP on “Advance Research in Friction Welding and its Engineering applications” organised by Rajalakshmi Engineering College. During 25<sup>th</sup> Aug to 27<sup>th</sup> Aug 2022.</li> <li>➤ Dr.M.Arun attended International FDP on “Futuristic Research in mechanical Engineering” during 08<sup>th</sup> August 2022 to 13<sup>th</sup> August 2022 organised by SRM Institute of Science and technology</li> <li>➤ Mr,P.Manoj Kumar attended International FDP on “Futuristic Research in mechanical Engineering” during 08<sup>th</sup> August 2022 to 13<sup>th</sup> August 2022 organised by SRM Institute of Science and technology</li> </ul>
2	Conference Attended	<ul style="list-style-type: none"> <li>➤ <i>Mr,J.Vijayanand</i> presented a paper titled <i>Elimination of Casting Defects by Minimization of clay and Moisture Content in Moulding sand</i> at International Conference on Recent Advances in mechanical Engineering Held during(25<sup>th</sup> to 27<sup>th</sup> August 2022 at Indian Institute of technology,Jodhpur.</li> </ul>



## DEPARTMENT OF MATHEMATICS AND ENGLISH

Events	Remarks																																												
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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 8%;">S.No</th> <th style="width: 20%;">Name of the Staff</th> <th style="width: 30%;">Program Title</th> <th style="width: 12%;">National/ International</th> <th style="width: 18%;">Organized by</th> <th style="width: 12%;">Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Dr.V.Vallinayagam</td> <td rowspan="3" style="text-align: center;">One Week International Faculty Development Programme on Innovative Mathematical Techniques in Research</td> <td rowspan="3" style="text-align: center;">International</td> <td rowspan="3" style="text-align: center;">Sathyabama Institute of Science And Technology Chennai</td> <td rowspan="3" style="text-align: center;">5 days 01-08-2022 to 06-08-2022</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">Dr.K.Sasikala</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">Dr.P.Agilan</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">Dr.U.Venkateswara</td> <td rowspan="3" style="text-align: center;">One-Week International FDP On TESOL and ELT</td> <td rowspan="3" style="text-align: center;">International</td> <td rowspan="3" style="text-align: center;">Sathyabama Institute of Science And Technology Chennai</td> <td rowspan="3" style="text-align: center;">5 days 08-08-2022 to 12-08-2022</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">Dr.K.Abinaya</td> </tr> <tr> <td style="text-align: center;">6</td> <td style="text-align: center;">Ms.A.Sathiya Jothi</td> </tr> <tr> <td style="text-align: center;">7</td> <td style="text-align: center;">Dr.K.Sasikala</td> <td rowspan="4" style="text-align: center;">5 Weeks Faculty Development Program on LINEAR ALGEBRA</td> <td rowspan="4" style="text-align: center;">National</td> <td rowspan="4" style="text-align: center;">Sardar Patel Institute of Technology</td> <td rowspan="4" style="text-align: center;">5 Weeks 25-07-2022 to 26-08-2022</td> </tr> <tr> <td style="text-align: center;">8</td> <td style="text-align: center;">Ms.B.Shoba</td> </tr> <tr> <td style="text-align: center;">9</td> <td style="text-align: center;">Dr.N.Jose Parvin Praveena</td> </tr> <tr> <td style="text-align: center;">10</td> <td style="text-align: center;">Ms.D.Arivukkodi</td> </tr> <tr> <td style="text-align: center;">11</td> <td style="text-align: center;">Mr.V.Sabarethinam</td> <td style="text-align: center;">Eight-Day Faculty Development Programme on Research, Publication and Patent in Humanities and Sciences</td> <td style="text-align: center;">National</td> <td style="text-align: center;">SRM Institute of Science and Technology, Ramapuram</td> <td style="text-align: center;">8 days 22-08-2022 to 30-08-2022</td> </tr> </tbody> </table>	S.No	Name of the Staff	Program Title	National/ International	Organized by	Date	1	Dr.V.Vallinayagam	One Week International Faculty Development Programme on Innovative Mathematical Techniques in Research	International	Sathyabama Institute of Science And Technology Chennai	5 days 01-08-2022 to 06-08-2022	2	Dr.K.Sasikala	3	Dr.P.Agilan	4	Dr.U.Venkateswara	One-Week International FDP On TESOL and ELT	International	Sathyabama Institute of Science And Technology Chennai	5 days 08-08-2022 to 12-08-2022	5	Dr.K.Abinaya	6	Ms.A.Sathiya Jothi	7	Dr.K.Sasikala	5 Weeks Faculty Development Program on LINEAR ALGEBRA	National	Sardar Patel Institute of Technology	5 Weeks 25-07-2022 to 26-08-2022	8	Ms.B.Shoba	9	Dr.N.Jose Parvin Praveena	10	Ms.D.Arivukkodi	11	Mr.V.Sabarethinam	Eight-Day Faculty Development Programme on Research, Publication and Patent in Humanities and Sciences	National	SRM Institute of Science and Technology, Ramapuram	8 days 22-08-2022 to 30-08-2022
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<b>Publications(only published) details</b>	<ol style="list-style-type: none"> <li>1. Sankar , Edge integrity for signed fuzzy graphs, Journal of Intelligent &amp; Fuzzy Systems, Vol. 43 (4), page 4681-4690, August 2022. SCIE (WOS), DOI : <a href="https://doi.org/10.3233/JIFS-220314">https://doi.org/10.3233/JIFS-220314</a></li> <li>2. Dr. P. Agilan , Direct and Fixed-Point Stability–Instability of Additive Functional Equation in Banach and Quasi-Beta Normed Spaces, Symmetry, Vol. 14 (1700), page 1-28, August 2022. SCIE (WOS), DOI: <a href="https://doi.org/10.3390/sym14081700">https://doi.org/10.3390/sym14081700</a></li> </ol>																																												



## DEPARTMENT OF MBA

### GUEST LECTURE:



Mr.Bhaskar  
CEO, Gokul Auto Tech Limited

Department of MBA Organised a Guest Lecture on “ Opportunities and Role of an MBA in Industry on 20-08-2022, Guest for the day is Mr.Bhaskar-CEO, Gokul Auto Tech Limited, around 140 students attended this session. Students were eagerly interacted with the guest and clarified their doubts.

### INDUSTRIAL VISIT- I:



Industrial Visit to DIAMOND  
ENGINEERING, Mambakkam,  
Chennai

On 24th August 2022, the students of MBA Integrated 2 nd and 5 th year went on an Industrial Visit to “DIAMOND ENGINEERING” which is the production of Steel located at Mambakkam, Chennai. The visit consists of 55 students along with the faculty members Dr.S.P Karuppaiah and Dr. R. Sundari. The students and the staff left the college premises around 9.30 am and reached the first Emerald Engineering by 10:20 AM.

The students raised various queries relating to the various aspects of steel production and the facilitators clarified all the queries effectively. The student spent their quality time exploring the production related activities of Diamond Engineering. Finally, the students reached the college premises around 4:00 pm in the afternoon.

The students felt the session enlightening and interesting as it is closely related to the course in the production and supply chain field. The students thanked the department for the knowledgeable session.

## INDUSTRIAL VISIT- II:



Industrial Visit to MODERN BAKERS” Parle G biscuit production unit at Madhavaram, Chennai

On 17<sup>th</sup> August 2022, MBA INTEGRATED 3<sup>rd</sup> and 4<sup>th</sup> Year students visited “MODERN BAKERS” Parle G biscuit production unit at Madhavaram, Chennai for an industrial visit. The visit consisted of 55 students along with the faculty members of Dr. M. Manikandan and Dr. Angelin S. Kiruba. The students and the staff left the college premises around 9.30 am and reached the destination by 11.45 am.

The industrial visit has commenced with a multimedia presentation about Parle G’s history, Parle G products, and the biscuit and toffee production process. The students visited the factory accompanied by the facilitators who explained the entire production process to the students. The students had the opportunity to explore and understand the production process of biscuits, starting from incoming raw materials, making the dough from raw material, making process, cooling, segregation, and packing of the final product. The students understood the importance of fire safety, hygiene, and quality control by visiting the plant. The students raised various queries relating to the various aspects and the facilitators clarified all the issues effectively. The student spent their quality time exploring the production and packaging and related activities of Parle G. Finally, the students reached the college premises around 3.20pm in the afternoon. The students felt the session enlightening and interesting as it is closely related to the course in the marketing and supply chain field. The students thanked the department for the knowledgeable session.

## NGO VISITS:



III & IV Year INT MBA NGO Visit to New Asiya Jothi Children Home on 06.08.2022



2<sup>nd</sup> & 5<sup>th</sup> INT MBA NGO Visit to St. Joseph's Home for Children on 13.08.2022

56 Students of III<sup>rd</sup> and IV<sup>th</sup> Year Integrated MBA, on 6<sup>th</sup> August 2022, visited New Asiya Jothi Children Home situated at Red hills, Chennai along with faculties Dr.M.Manikandan and Ms. A. Jebakerupa Roslin. There were 35 inmates in the home. Provisional needs and fruits for the inmates were provided by the MBA students. The students voluntarily served the college sponsored lunch to the inmates with vegetarian and non-vegetarian dishes. This visit was an encouragement for the students towards social responsibility and enriches the life of the inmates.

64 Students of II and V year Integrated MBA Students visited St. Joseph's Home for Children on 13th August 2022. Students voluntarily purchased and distributed some essential provisional items for the 45 inmates of orphanage. Students felt that they had a great time in interacting with inmates. The students voluntarily served the college sponsored lunch to the inmates with vegetarian and non-vegetarian dishes.

**FACULTY PUBLICATION(Only Published)**

Dr.Jayasree Krishnan, “Sustainability and Emotional Intelligence in Family Owned Business” published in Journal of the Oriental Institute, ISSN: 0030-5324; Vol.71, Issue. 02, No.18; April-June 2022. (UGC Care Group – I)

Dr.Jayasree Krishnan, “A Study on Working Conditions and Emotional Intelligence of women street vendors” published in Shodha Prabha, ISSN: 0974 - 8946; Vol.47, Issue. 01, No.12; 2022. (UGC Care Group – I)

Dr.Jayasree Krishnan, “Competency mapping as a Tool for Innovation” published in Journal of the Oriental Institute, ISSN: 0030-5324; Vol.71, Issue. 02, No.18; April-June 2022. (UGC Care Group – I)

**WORKSHOP/FDP/STP/CONFERENCE / SEMINAR ATTENDED BY FACULTY:**



Dr.Jayasree Krishnan successfully completed 7 day Design Thinking Course organised by Turnip Innovations from 07.08.2022 to 13.08.2022.



Dr.Jayasree Krishnan successfully completed 2 Week Entrepreneurship Course organised by Turnip Innovations from 18.07.2022 to 31.07.2022.



Dr.K.Sampath attended a Virtual FDP on “Exploring Dynamics of National Education Policy 2020 with reference to NAAC Perspectives” organised by IQAC - Sant Hirdaram Girls College and Research Foundation of India from 10.08.2022 to 18.08.2022.

**FACULTY AS RESOURCE PERSONS:**

Dr.U.Madhanrajan handled one whole day session on “Confirmatory Factor

Analysis and Structural Equation Modeling using IBM AMOS” at ICSSR - SRC Sponsored National Level Online One week Workshop on “Research Methodology – A Toolkit for the Innovators” on 29.08.2022.


Dr.S.Ajit and Mr.P.Surenthran David acted as Resource Persons for All India Workshop on “Lean Manufacturing to Minimize Waste in Production Systems” on 12 & 13th August, 2022 organised by The Institution of Engineers (India) in Association with Department of Mechanical Engineering, St.Joseph’s Institute of Technology, Chennai.

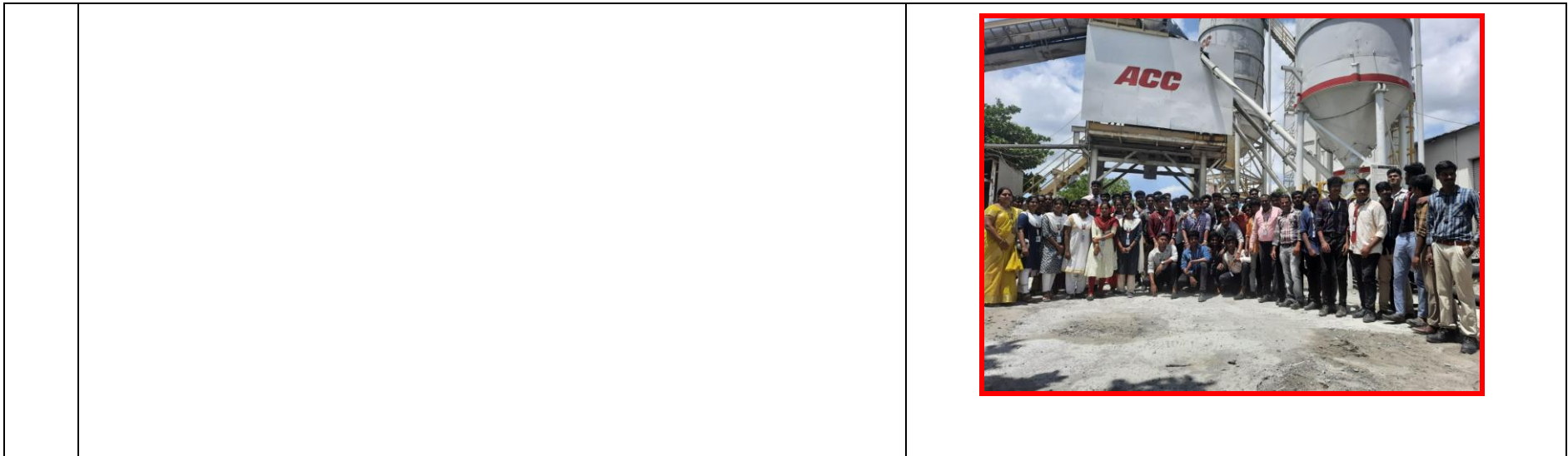


## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	<b>FDP/Workshop/Conference</b>	<p>1. Dr. K. Sathesh Kumar attended 6 days International FDP on “Futuristic Research in Mechanical Engineering” conducted by “SRM Institute of Science and Technology, Ramapuram” from 08.08.22 to 13.08.22.</p> <p>2. Dr. S. Kiruba , Dr. N. Punitha, Dr. P. Saravanan, Dr. N.R. Rajagopalan, Dr. S. M. Prakash attended International webinar on “Innovations In Materials Processing; Importance Of Ceramic Shell Moulds For Investment Casting Of Gas Turbines Components” conducted by “Bharat Institute Of Engg Tech, Indian Ceramic Society &amp; Centre For Research In Education Hyderabad” on 20.08.22.</p> <p>3. Dr. P. Krishnan attended International workshop on “Thermoelectric Materials and Applications” conducted by “SSN Institutions, Kalavakkam” from 24.08.22 to 25.08.22.</p> <p>4. Dr. N. Punitha completed a certification program on “Quantum Physics” conducted by “Udemy” on 21.8.22.</p> <p>5. Dr. A. Uma Devi completed a certification program on “Master Native English For Beginners” conducted by “Udemy” on 29.8.22.</p>
2	<b>Other activities(if any)</b>	<p>Department of Science conducted the following online events for school students:</p> <ol style="list-style-type: none"> <li>1) Pixels – 11.8.22</li> <li>2) Adsapp – 13.8.22</li> <li>3) Lawyers up – 18.8.22</li> <li>4) Mind puppet – 20.8.22</li> <li>5) Mystifier – 22.8.22</li> <li>6) Master minds – 24.8.22</li> <li>7) Smartinicus – 26.8.22</li> <li>8) Essay writing – 29.8.22</li> </ol>

## DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	<p><b>Industrial Visits, In plant trainings, Internships</b></p>	<p><b>Industrial Visits</b></p> <ul style="list-style-type: none"> <li>• Third Year students visited RMC plant of ACC cements on 17<sup>th</sup> August 2022 at <b>Senneer Kuppam, Poonamallee</b>. Staff members accompanied are Mr.S.P.Senthil Kumar and Ms.Padmapriya</li> </ul>  <ul style="list-style-type: none"> <li>• Second Year students visited RMC plant of ACC cements on 22<sup>nd</sup> August 2022 at <b>Thirumudivakkam</b>. Staff members accompanied are Dr.Vijai and Ms.Ruthra</li> </ul>



**Guest Lecture / Webinar Organized**

2.

- A guest lecture on **Practical applications & scope of structural engineering in various industries** was held at AV HALL LIBRARY of St.Joseph's on 27<sup>th</sup> August, 2022 (Saturday) from 8:30 am to 10:00 am. The guest was **Mr.D.Surendar M.E, Deputy Manager Design UG, CMRL, Chennai**. Totally 56 second year students of Civil Engineering have participated. The guest enlightened the students on structural engineering positions available and requirements. The program was coordinated by Ms. R.Adlin Rose.




- A guest lecture on **Construction practices in RCC** was held at AV HALL LIBRARY of

*St. Joseph's* on 18th August, 2022 (Thursday) from 11:00 am to 12:30 pm IST. The guest was **Mr.M.Velmurugan., M.I.E., M.Tech., C.Eng (Ind), (PhD IITM.Structures), Senior Structural Consultant & Chartered Engineer, ECON Structural consultancy, Chennai.** . Totally 35 third year students of Civil Engineering have participated. The guest enlightened the students on RCC thumb rules in planning, analysis and design. The program was coordinated by Ms. R.Adlin Rose.





- A guest lecture on **Soil nailing techniques to optimize retaining walls in hilly region** was held at *AV HALL LIBRARY of St. Joseph's* on 18th August, 2022 (Thursday) from 11:30 am to 1:00 pm . The guest was **Er.A.Karthikeyan M.E, Proprietor, Structural & Geotechnical Consultant, Karthikeyan Associates, Chennai.** Totally 54 final year students of Civil Engineering have participated. The guest enlightened the students on soil nailing at Kodaikanal. The


		<p>program was coordinated by Ms. R.Adlin Rose.</p> 
3.	<ul style="list-style-type: none"> <li>FDP/Workshop/Conference attended</li> </ul>	<ul style="list-style-type: none"> <li>Dr.S.Thenmozhi, Dr.V.Gowri, Ms.S.Banupriya &amp; Ms.R.Ruthra have attended an FDP titled Futuristic Research in Mechanical Engineering-Material Testing organized by SRM Institute of Science and Technology, Ramapuram Campus during 08 th August to 13 th August 2022.</li> <li>Dr.S.Thenmozhi, Dr.V.Gowri, Ms.S.Banupriya &amp; Ms.R.Ruthra have attended one workshop titled Hydro-Geological Engineering organized by J.N.N. College of Engineering, Shivamogga during 22nd to 26th August 2022.</li> <li>Mr.S.Thangaperumal have attended an one week National Level Faculty Development Programme titled “Futuristic Research Scope in Civil Engineering” organized by CK College of Engineering and Technology, Cuddalore during 23rd August to 27th August 2022.</li> </ul>
4.	<p><b>Publications (only published) details</b></p>	<ul style="list-style-type: none"> <li>Dr.K.Vijai has published a paper titled “Behaviour of Fly ash and GGBS based Monoblock Prestressed Geopolymer Concrete Composite sleepers” in Materials Today Proceedings Vol 65, No 8, pp3321-3327, August 2022 (<b>Web of Science Indexed</b>)</li> </ul>




# DEPARTMENT OF CHEMICAL ENGINEERING

Description about the various activities undertaken and its corresponding remarks.

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p style="text-align: center;"><b>COLLABARATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS</b></p> <p style="text-align: center;"><b>INDUSTRIAL VISIT</b></p> 	<p>-</p> <p>❖ The department of Chemical Engineering has organized a one-day visit to Modern Bakers for III<sup>rd</sup> year students (50+2) on 19<sup>th</sup> August</p>
2.	<p style="text-align: center;"><b>FDP/WORKSHOP/CONFERENCE</b></p> 	<ul style="list-style-type: none"> <li>- FDP on “Futuristic Research in Mechanical Engineering” conducted by SRM Institute of Science and Technology on 13<sup>th</sup> August.</li> <li>- Total Number of Staffs attended - 06</li> </ul>

		
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## DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
3.	<p style="text-align: center;"><b>INDUSTRIAL VISIT</b></p>  <p>IV – Third year biotech students</p>	<p>Third year students from Biotechnology department, St. Josephs College of Engineering had visited the modern (madras) bakers, as part of their Industrial Visit. The Industrial Visit was scheduled on 18<sup>th</sup> of August, 2022.</p> <p>Second year students from Biotechnology department, St. Josephs College of Engineering had visited the modern (madras) bakers, as part of their Industrial Visit. The Industrial Visit was scheduled on 26<sup>th</sup> of August, 2022.</p>



II – Third year biotech students

4.

**FDP/WORKSHOP/CONFERENCE**

Dr. G. Baskar, Participated in online one Week Online **FDP on "Outcome Based Education"**, organized by CK College of Engineering and Technology, Cuddalore, Tamil Nadu during from 24<sup>th</sup> August to 30<sup>st</sup> August 2022.

Dr. M. Chamundeeswari attended a National Level Online Faculty Development Program on "Current Trends and Innovations in Biological Sciences", organised by Department of Allied Health Sciences, Chettinad Academy of Research and Education , Chennai on 24<sup>th</sup> July 2022.



CAVINKARE PATRONIZED INSTITUTIONS

DEPARTMENT OF  
ELECTRONICS AND COMMUNICATION ENGINEERING

*Certificate of Participation*

This is to certify that Dr. / Mr. / Ms. / Mrs. / Prof. Baskar Gurunathan, Professor  
of St. Joseph's College of Engineering, Chennai has  
participated in one week online Faculty Development Program on "Outcome Based  
Education" Organized by the Department of Electronics and Communication Engineering,  
CK College of Engineering and Technology, Cuddalore, Tamilnadu, India. from 24<sup>th</sup> August to  
30<sup>th</sup> August 2022.

  
Dr. D. Sengeni  
Convener

  
Dr. M. Arulalan  
Professor & HOD

  
Dr. S. Saravanan  
Principal - CKCET

  
Ms. Amudhavalli Ranganathan  
Executive Director - CK Group of Institutions

Certificate ID: JHFB2C-CE000093



Dr. G. Baskar Copy of certificate




INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of HRD initiative)




Allied Health Sciences  
**Chettinad Academy**  
of Research and Education  
(Deemed to be University)

### CERTIFICATE OF APPRECIATION

This is to certify that **Dr. M. Chamundeeswari** Associate Professor, Department of Biotechnology, St. Josephs College of Engineering has delivered an Invited Talk in **Two Weeks National Level Online Faculty Development Program on "Current Trends and Innovations in Biological Sciences"** organized by Faculty of Allied Health Sciences in association with Chettinad Institution's Innovation Council, Chettinad Academy of Research and Education, Kelambakkam, Tamil Nadu, India from 22<sup>nd</sup> August 2022 to 7<sup>th</sup> September 2022.

  
Dr. S. Weslen Vedakumari  
Convener  
Assistant Professor,  
FAHS, CARE

  
Dr. G. S. Hikku  
Convener  
Assistant Professor,  
FAHS, CARE

  
Dr. K. Kumar Ebenezar  
Principal (j/c),  
FAHS, CHRI

  
Dr. R. Arun Kumar  
IGAC-Director

  
Dr. Shantha Ravisankar  
Vice Chancellor,  
CARE



Dr.M .Chamundeeswari- Copy of certificate

#### 5. COMPETITIONS ATTENDED BY STUDENTS

- - Intramural Sports - Event Chess - Singles men category runner up won by Mr. Udhaya Kumar from Third year Biotech.
- Intramural Sports - Event Chess - Singles women category runner up won by Ms. Keerthana.S.M from Third year Biotech.
- Intramural Sports - Event Badminton - Singles women category runner up won by Ms. Shivadharshini .M from Third year Biotech.
- Intramural Sports - Event Table Tennis - Singles women category runner up won by Ms. Yuvassri.R from Third year Biotech.





St. JOSEPH'S COLLEGE OF ENGINEERING  
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Department of Physical Education

**Sports Circular**

Management, Staff and Students are happy to congratulate  
III Year Branches WON the following PLACES in the INTRAMURAL  
SPORTS organized on 11<sup>th</sup> Aug 2022.

**III-Year: Intramural Sports Results**

GAME	CATEGORY	PLACE	BRANCH
Ball Badminton	Men	Runners Up	CIVIL, Bio-Tech & ICE
		Winners	ECE
	Women	Runners Up	EEE
		Winners	IT
Basketball	Men	Runners Up	EEE
		Winners	MECH
	Women	Runners Up	EEE
		Winners	CSE
Volleyball	Men	Runners Up	IT
		Winners	CSE
Throw Ball	Women	Runners Up	CSE
		Winners	EEE
Kabaddi	Men	Runners Up	EEE
		Winners	IT
Football	Men	Runners Up	CSE
		Winners	MECH
Chess (Singles)	Men	Runner Up	UDAYA KUMAR.B - Bio-Tech
		Winner	GENISH PRAKASH J-CSE
	Women	Runner Up	KEERTHANA S.M Bio-Tech
		Winner	SNEHA R CSE
Badminton (Singles)	Men	Runner Up	JADON SAMUVELL-IT
		Winner	VINAYAK.R-CSE-C
	Women	Runner Up	SHIVA DHARSHINI.M - Bio-Tech -A
		Winner	ANUSHRUTHIKA, E -CSE-A
Table Tennis (Singles)	Men	Runner Up	NAGULRAJ.T-CSE
		Winner	SANJAY SELVAN -EEE
	Women	Runner Up	YUVASSRI.R -Bio-Tech
		Winner	SHEVANIE SHUPREEYA.P -CSE

**Congratulations!**

12.08.2022

CHAIRMAN

Copy to: All Notice Boards, and Email to all

160822

*III Year Intramural Sports Winners list*



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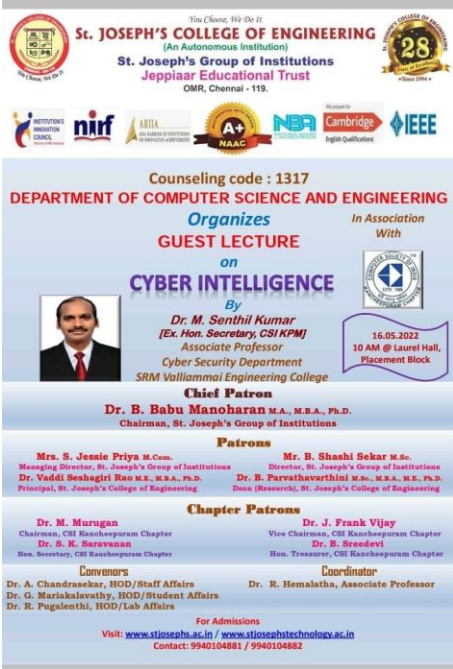


INSTITUTION'S INNOVATION COUNCIL  
(Ministry of HRD Initiative)



## SEPTEMBER 2022

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	 <p>The poster details the FDP on Outcome based Curriculum Design organized by the Department of Computer Science and Engineering. It features a guest lecture on Cyber Intelligence by Dr. M. Senthil Kumar, Associate Professor at SRM Vallammai Engineering College. The event is supported by various accreditation bodies and is held on 16.05.2022 at 10 AM in Laurel Hall, Placement Block.</p>	<p>Date : 05.09.2020 – 09.09.2022          Venue : Online          Nature of Event : Faculty Development Programme          Participants : Engineering Faculties          Organized by : NITTTR, Chandigarh</p> <p>• <b>Objective:</b></p> <ul style="list-style-type: none"> <li>•</li> </ul> <p><b>Outcome:</b></p> <ul style="list-style-type: none"> <li>• Gained knowledge about the fundamentals of cyber security</li> <li>• The tools used for protecting our gadgets from cyber attacks</li> <li>• How to act if there is a cyber-attack occurred</li> </ul>

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## 1. Events Organized:

The following events have been organized and conducted in the month of September 2022

### IETE Event: Technical Quiz-BRAINBENDERS

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JEPPIAAR EDUCATIONAL TRUST  
OMR, CHENNAI 600 119

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
IETE STUDENTS' FORUM - ISF

**BRAINBENDERS**

**DATE :** 2<sup>ND</sup> SEP

**TIME:** 1:00 - 3:00 PM

**venue: ECE LAB**

**CHIEF PATRON**  
**DR. B. BABU MANOHARAN M.A., M.B.A., Ph.D.**  
CHAIRMAN, ST. JOSEPH'S GROUP OF INSTITUTIONS

Mrs. S. Jessie Priya M.COM  
Managing Director, St. Joseph's Group of Institutions

Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering

Mr. B. Shashi Sekar M.Sc.  
Executive Director of, St. Joseph's group of Institutions

Dr. G. SreeKumar M.Sc, M.Tech, Ph.D  
Dean ( Academics )

Dr. A. Chandra Sekar M.E, Ph.D  
Dean ( Research )

Dr. V. Vallinayagam M.Sc, M.Phil, Ph.D  
Dean ( Student Affair )

Convenors:  
Dr. B. Victoria Jancee M.E, Ph.D  
IETE -Tech Affairs

Dr. S. Aghalya M.E, Ph.D  
IETE - Softskill Affairs

Dr. P. Ezhilarasi M.E, Ph.D  
IETE Lab Affairs

Staff Coordinator:-  
Dr. Shirley Selvan  
Dr. D. Lakshmi

IETE COORDINATORS

Student co ordinators:  
1. Anand E - 9943562883  
2. Rubeshwaran A - 7871924420  
3. Saravakshi S A - 6369207603  
4. Sai Priyadarshini J - 9940370112

The winning teams are:

#### Winners: Team 10

Name	Study Year
Prisca J	II C
Jaswanthika R	III A
Janani P	III A
Jegatha B	IV B
K S Jeyaprakash	IV B

**First Runner: Team 4**

### Report



IETE Students' Forum, Department of ECE have organized BRAINBENDERS – A Technical Quiz Event on 2<sup>nd</sup> September 2022 at AV Hall between 1.00 and 3.00 PM A Strength of 174 ISF members as 27 teams have participated in this event. Each Team includes members from II year, III year and IV year students facilitating their knowledge sharing and experience. The Event has three rounds namely Frenzy, Technozap and Collaquium.

<b>Name</b>	<b>Study Year</b>		
Rajeshwar N	II C		
M S Yazhini	III C		
M S Charan	III A		
Kowsigan N P	IV B		
Lavanya S	IV B		
<b>Second Runner: Team 24</b>			
<b>Name</b>	<b>Study Year</b>		
S. Feslin Sherina	II B		
Sabaridharan V P	II C		
Sandeep kumar M N	III C		
Sandeep Adhikari	III C		
<b>OPTICA Event : TECHDROVE</b>			<b>Report</b>




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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
 in association with  
**OPTICA** **OPTICA STUDENT CHAPTER**  
 Advancing Optics and Photonics Worldwide PROUDLY PRESENTS  
**A TECHNICAL QUIZ EVENT**

**TECH DROVE 5.0**  
 AN EXCLUSIVE EVENT FOR 2ND YEAR OPTICA MEMBERS  
 DATE 13TH SEPTEMBER 2022

**CHIEF PATRON**  
**Dr. B. BABU MANOHARAN M.A., M.B.A, Ph.D.**  
 Chairman, St. Joseph's Group of Institutions

**PATRONS**  
**Mrs. S. Jessie Priya M.Com.**  
 Managing Director, St. Joseph's Group of Institutions  
**Mr. B. Shashi Sekar M.sc.**  
 Executive Director, St. Joseph's Group of Institutions

**Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.**  
 Principal, St. Joseph's College of Engineering  
**Dr.G.Sreekumar M.Sc., M.tech, Ph.D.**  
 Dean(Academics)  
**Dr.A.Chandra Sekar M.E., Ph.D.**  
 Dean(Research)  
**Dr.V.Vallinayagam M.Sc., M.Phil., Ph.D.**  
 Dean(Students Affair)

**Convenors:-**  
**Dr.B.Victoria Jancee M.E, Ph.D**  
 HOD-Staff Affairs  
**Dr. S. Aghalya M.E, Ph.D**  
 HOD-Student Affairs  
**Dr. P. Ezhilarasi M.E, Ph.D**  
 HOD-Lab Affairs

**Student Advisor:-**  
**Dr.B.Vasudevan M.E, Ph.D**

**Student Coordinators:-**  
**Rithish Murugan - +91 7550203999**  
**Shriya Mukundan - +91 9790935605**  
**Raghuram Muruges - +91 6381376804**

For Admissions Visit-[www.stjosephs.ac.in](http://www.stjosephs.ac.in)/ [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact-9940104881/9940104882

An Exclusive event for the second year students in OPTICA student chapter .

“Tech Drove 5.0” was a totally riveting event organized by the Optica Student Chapter in the Department of Electronics and Communication Engineering. The event focused on welcoming the II year students into Optica and enriching their technical knowledge.

The noteworthy event was initiated with ROUND 1, in which all the 2nd year members were invited to participate. Two sets of different questions were provided to around 34 teams that comprised of 3 to 4 members each..

The participants were allotted a time period of 40 minutes to solve the perplexing yet amusing questions that provoked their thinking capacity. 6 teams moved on to the finale, based on their score after evaluation.

The Finale “GREEN SCREEN” began with the President’s address by Rithish Murugan, President of Optica Student Chapter, SJCE. It was followed by the welcome address by Jaswanthika R, III ECE A.

The final round was completely engrossing as the qualified teams chose a member who was blind-folded. The other members of the team had to give clues about the technical diagrams and circuits presented on the screen, while the blind-folded person had to guess it correctly.

Finally the top 3 teams were selected and were awarded by Dr. B. Vasudevan, Student Advisor of Optica Student Chapter, SJCE.

### WINNERS

PLACE	MEMBERS	CASH AWARD
I	Yamini.R Venusree.S Vadivu Nandhini.M Sheryl Evangelin Johnson	Rs. 1000/-
II	Prinston R Seavery A Planston Venkittaragavan R Raam aadharsh K	Rs. 700/-
III	Kelci.A	



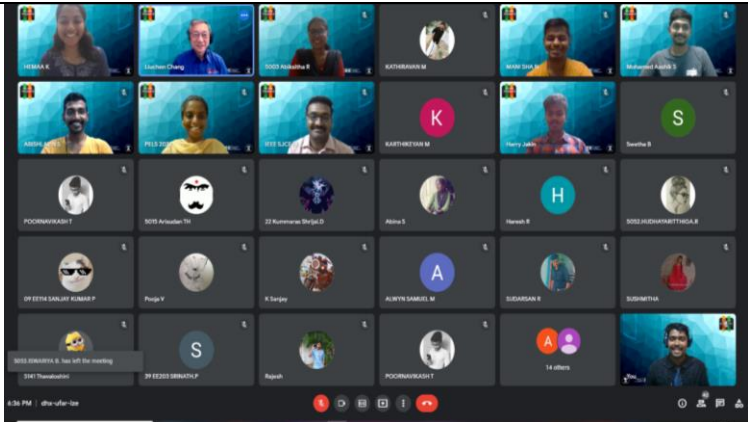
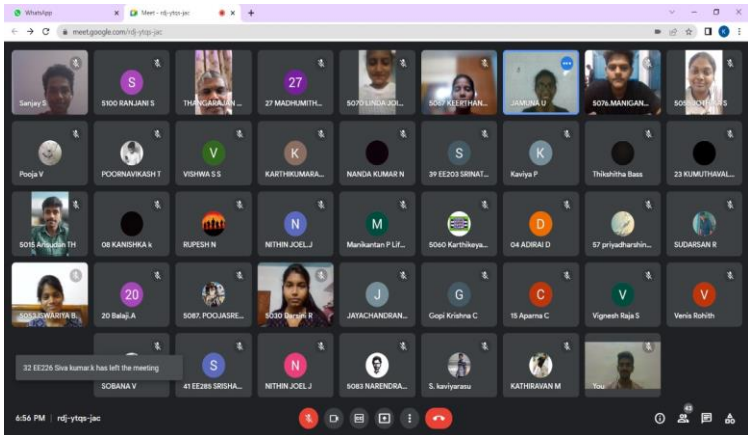
		Joshika G Logeshwari A Manisha V	Rs. 500/-
<b>GUEST LECTURE: For II Year Students</b>		<b>Speaker Details</b>	
TOPIC: Evolution of Electronics		Guest Speaker: Dr. S. Muttan Speaker Details: Former Professor – Anna University Department of ECE, Chennai. Date: 3.9.22 Venue: AV Hall, Central Library, St. Joseph’s College of Engineering, OMR, Chennai Number of Participants: 193	

## 2. Publications:

The following staff member have published research paper in the month of August at International Level

S. No	Name of the Staff	Title of the Publication	Journal/Conference	Date & Year of Publication	Indexing
1.	D.Lakshmi	A Novel Implementation of Esophagus Diagnosis Using Deep Learning	2nd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022, 2022, pp. 636–641	August 2022	Scopus

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	Remarks
1.	 <p style="text-align: center;"><b>PIC: IEEE event screen shot</b></p>	<p>The IEEE Power Electronics Society of St. Joseph's College of Engineering Conducted the inauguration of PELZINE Volume-III magazine, a publication of student articles, took place on Sept 18,2022. Our chief guest IEEE PELS President Dr. Luichen Chang began the inauguration by expressing appreciation to the SJCE PELS Society and magazine editors, volunteers, and coordinators. He concluded his presentation by showing the opportunities available through the IEEE PELS Society and thanking the SJCE PELS Society. Then, he presented a video announcing the release of PELZINE VOLUME-III. The flip book was displayed to all attendees. We concluded the inaugural with a LEISURE Corner to create excitement among the participants. Participants enjoyed the leisure corner which contained crosswords, Sudoku, and quizzes, and gave off favorable feedbacks</p>
2.	 <p style="text-align: center;"><b>PIC: IEEE event screen shot</b></p>	<p>The “Network with a Star” is a webinar conducted by IEEE SJCE SBC on 13th September 2022. A total of 60 Participants attended the webinar. The Presenter Dr. Thangarajan Rajkumar is a professor and Head of the Department of Molecular Oncology, Cancer Institute, Chennai. He provided an explanation of cancer, informed us about several cancer related malignancies, and raised awareness of them. Also, he discussed many unexplored aspects of cancer. Finally, he covered cancer prevention and treatment. Then, he responded in-depth to the queries posted by the attendees in the meet. The speaker receives an E-memento at the end of the webinar as a thank you for sharing his perspective on cancer.</p>

3.

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ARHA NEA NIF Cambridge  
IEEE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
in association with  
IEEE STUDENT BRANCH CHAPTER  
PRESENTS

**COVER TO COVER**  
(IEEE Spectrum Reading)

6:00 PM - 7:00 PM  
31st August 2022

**OPEN TO ALL**  
meet.google.com/ykh-jxcm-att

**NIVAS M**  
3rd Year EEE  
Topic : Software Turns Promise Up for Offshore Wind

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com.  
Managing Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering  
Dr. V.Vallyayagam M.Phil., M.D.  
Dean Students Affairs, St. Joseph's College of Engineering

**Convenor**  
Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - Lab Affairs

**SBC Advisor**  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.E., Ph.D.  
Assistant Professor

**Mr. B. Shashi Sekar M.Sc.**  
Executive Director, St. Joseph's Group of Institutions  
**Dr. G. Sreekanth M.Sc., M.Tech., Ph.D.**  
Dean Academics, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar M.E., Ph.D.**  
Dean Research, St. Joseph's College of Engineering

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IEEE Spectrum, is the world's largest professional organization devoted to engineering and the applied sciences. It contains peer-reviewed feature articles pertaining to technology and science trends affecting business and society. This spectrum was conducted to enlighten the young minds and some skillful knowledge out of it. The speaker Mr.Nivas M spoke on the "Software Turns Promises Up for Offshore Wind". The speaker enlightened us with the idea that "A radical new idea for offshore wind turbines would replace tall unwieldy towers that had blades on top with lightweight, towerless machines whose blades resemble the loops of a whisk. The participants had an amazing experience in the meet and enjoyed the entire session.

4.

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ARHA NEA NIF Cambridge  
IEEE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
in association with  
IEEE STUDENT BRANCH CHAPTER  
PRESENTS

**COVER TO COVER**  
(IEEE Spectrum Reading)

6:30 PM - 7:30 PM  
11th September 2022

**OPEN TO ALL**  
meet.google.com/ykh-jxcm-att

**ARISUDAN**  
3rd Year EEE  
Topic : Can Underwater Robots get a boost in Mapping the Ocean.....?

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
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Managing Director, St. Joseph's Group of Institutions  
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Dr. V.Vallyayagam M.Phil., M.D.  
Dean Students Affairs, St. Joseph's College of Engineering

**Convenor**  
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Professor & Head - Lab Affairs

**SBC Advisor**  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.E., Ph.D.  
Assistant Professor

**Mr. B. Shashi Sekar M.Sc.**  
Executive Director, St. Joseph's Group of Institutions  
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Dean Academics, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar M.E., Ph.D.**  
Dean Research, St. Joseph's College of Engineering

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IEEE Spectrum, is the world's largest professional organization devoted to engineering and the applied sciences. It contains peer-reviewed feature articles pertaining to technology and science trends affecting business and society. This spectrum was conducted to enlighten the young minds and some skillful knowledge out of it. The speaker Mr.Arisudan TH spoke on the "Can Underwater Robots get a boost in Mapping the Ocean.....?". The speaker enlightened us with the idea that "The ocean contains a seemingly endless expanse of territory yet to be explored—and mapping out these uncharted waters globally poses a daunting task. Fleets of autonomous underwater robots could be invaluable tools to help with mapping The participants had an amazing experience in the meet and enjoyed the entire session.

PIC: IEEE EVENT POSTER

PIC: IEEE EVENT POSTER

5.	 <p style="text-align: center;"><b>PIC: IEEE EVENT POSTER</b></p>	<p>IEEE Spectrum, is the world’s largest professional organization devoted to engineering and the applied sciences. It contains peer-reviewed feature articles pertaining to technology and science trends affecting business and society. This spectrum was conducted to enlighten the young minds and some skillful knowledge out of it. The speaker Mr.Madhavan K spoke on the “New Technique Reduces Electrocutation Risk After EV Crash”. The speaker enlightened us with the idea that “To address this issue, Hu’s team designed a hybrid approach, which relies on both the internal machine windings and external bleeder circuits to achieve the quick and safe discharge. The participants had an amazing experience in the meet and enjoyed the entire session.</p>										
6.	<h2 style="text-align: center;">PLACEMENT DETAILS FOR THE MONTH OF SEPTEMBER 2022</h2>	<p>Total No of students placed = 81 UG Students  Total No of Offers = 122 Offers  Total No of Students (UG) = 160  Total No of Eligible Students (UG) = 148  Total No of Eligible Students (PG) = 06  % of students Placed (UG) = <math>81/148 = 54.72\%</math>  % of students Placed (PG) = NIL  No of students having single offers = 47  No of students having Double offers = 27  No of students having Triple offers = 07</p>										
7.	<h2 style="text-align: center;">FDP FOR THE MONTH OF AUGUST 2022</h2>	<p>Following staff members attended One Week FACULTY DEVELOPMENT PROGRAMME On SMART GRID AND RENEWABLE ENERGY SOURCES 29th AUGUST - 2nd SEPTEMBER, 2022</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Dr.M.VENMATHI</td></tr> <tr><td>Dr.ANBARASAN. P</td></tr> <tr><td>Dr.CHAMUNDEESWARI V</td></tr> <tr><td>Dr.JAYARAMA PRADEEP</td></tr> <tr><td>Dr.M ANITHA</td></tr> <tr><td>Dr.N. CHIDAMBARARAJ</td></tr> <tr><td>Dr.NARMADHA T V</td></tr> <tr><td>Dr.RAMESH BABU M</td></tr> <tr><td>Dr.S.SRIDHARAN</td></tr> <tr><td>Dr.T D SUDHAKAR</td></tr> </table>	Dr.M.VENMATHI	Dr.ANBARASAN. P	Dr.CHAMUNDEESWARI V	Dr.JAYARAMA PRADEEP	Dr.M ANITHA	Dr.N. CHIDAMBARARAJ	Dr.NARMADHA T V	Dr.RAMESH BABU M	Dr.S.SRIDHARAN	Dr.T D SUDHAKAR
Dr.M.VENMATHI												
Dr.ANBARASAN. P												
Dr.CHAMUNDEESWARI V												
Dr.JAYARAMA PRADEEP												
Dr.M ANITHA												
Dr.N. CHIDAMBARARAJ												
Dr.NARMADHA T V												
Dr.RAMESH BABU M												
Dr.S.SRIDHARAN												
Dr.T D SUDHAKAR												

Dr.V.KRISHNAKUMAR
Dr.VELMURUGAN P
Mr.A.SADEESH KUMAR
Mr.ARAVINDHAN K
Mr.BALASUBRAMANIAN
Mr.ELANTHIRAYAN R
Mr.H UMESH PRABHU
Mr.HARISH S S
Mr.JEYAPRAKASH N
Mr.NISHANT S
Mr.PRASAD.H
Mr.SIDDHARDHAN R
Mr.SIVAKUMAR S
Mr.SREEKANTH R
Mr.T.SRIANANDA GANESH
Mr.VENKATESH KUMAR C
Ms.R G NIRMALA
Ms.RAMA DEVI C
Ms.S.GOMATHI
Ms.S.P.VEDAVALLI

Dr.V.Krishnakumar successfully completed the course “Robotics” with a consolidated score of 78% by NPTEL  
 Following staff members attended FDP on “Renewable Energy Systems Laboratory” 29/8/22 to 2/9/22

Dr.M.VENMATHI
Ms.S.GOMATHI
Ms.S.P.VEDAVALLI



8.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
**St. Joseph's Group of Institutions**  
Jeppiaar Educational Trust  
OMR, Chennai - 119.

Counselling Code : 1317  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organises

**Guest Lecture on**  
Recent challenges in High voltage Engineering

**RESOURCE PERSON**  
**Prof. R. Sarathi** FIE, FRSC, FIET, FNAE  
Department of Electrical Engineering  
(ESB - 347) IIT Madras

01-10-2022 | 9.00 a.m-10:00am  
for IV Year EEE students

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.

**Patrons**  
Mrs. B. Jessie Priya M.Com.,  
Managing Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering  
Dr. V. Vallinayagam M.Phil., Ph.D.  
Dean Student Affairs  
Dr. A. Chandra Sekar M.E., Ph.D.  
Dean Research  
Mr. B. Shashi Sekar M.Sc.  
Executive Director, St. Joseph's Group of Institutions  
Dr. G. Sreekumar M.Sc., M.Tech., Ph.D.  
Dean Academics

**Convenors**  
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Professor & Head - Lab Affairs

**Staff Coordinators**  
Dr. V. Chandra Sekar M.E., M.B.A., Ph.D.  
Associate Professor / EEE  
Dr. V. Vallinayagam M.Phil., Ph.D.  
Associate Professor / EEE

\*For Admissions: Visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or Contact: 9940104881 / 9940104882

PIC: GUEST LECTURE POSTER

St. Joseph's College of Engineering, Department of Electricals and Electronics engineering organized a guest lecture for our III-year & IV year students on the topic "Recent Challenges in High Voltage Engineering" by Dr. R. Sarathi Professor, High Voltage Engineering, IIT Madras, Chennai. on 01-10-2022 between 09.00 A.M to 10.00 A.M. at Library AV Hall.

9.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
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Counselling Code : 1317  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
PRESENTS

**TECHNICAL QUIZ**

EXCLUSIVELY FOR 11TH & 12TH STUDENTS

19TH - 24TH SEP 2022

CERTIFICATES WILL BE PROVIDED FOR THE PARTICIPANTS  
Register Here : <https://forms.gle/8IKQgwoHgMBJkhLg8>

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
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Dean Student Affairs, St. Joseph's College of Engineering

**Convenors**  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.A., Ph.D.  
Professor & Head - Lab Affairs

**Staff Coordinators**  
Mr. N. Jayaprakash M.A., Ph.D.  
Associate Professor

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PIC: SCHOOL EVENT POSTER

The TECHNICAL QUIZ was organized by Department of Electrical and Electronics Engineering for 06 Days which was held from 19.09.2022 to 24.09.2022. 11th, 12th Standard students and Diploma Students from various schools & Colleges took part in this event. Quiz on various technical topics like KVL & KCL, Electric Field, Magnetic Field, Electronic Devices, Binary Numbers, and Logic Gates to enhance the knowledge of the students.

10.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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Jeppiaar Educational Trust  
OMR, Chennai - 119.

Counselling Code : 1317

**Robotics CLUB**

09/09/2022 | 1:40 PM

VENUE-BLOCK 5

**ROBOT**

CERTIFICATES WILL BE PROVIDED

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Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
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Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.**  
Principal, St. Joseph's College of Engineering

**Dr. G. Sreekumar M.Sc., M.Tech., Ph.D.** Dean Academics, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar M.E., Ph.D.** Dean Research, St. Joseph's College of Engineering  
**Dr. V. Vallinayagam M.Phil., Ph.D.** Dean Student Affairs, St. Joseph's College of Engineering

**Conveners**  
**Dr. Jayarama Pradeep M.E., Ph.D.** Professor & Head, Staff Office  
**Dr. T.V. Narmadha M.E., Ph.D.** Assistant Professor / EEE

**Coordinators**  
Dr. ANBARASAN P. M.Tech., Ph.D. Assistant Professor / EEE  
Mr. S.SIVAKUMAR, M.E. Assistant Professor / EEE

**Student Coordinators**  
DARSINI | BUYAVARAPU NAVEEN | NAVINA | KATHIRAVAN | CHRIS KEVIN | KARTHIK | CHRISTEL PEERIS | PRAVESH CHRISTO | CHARLTON | ISHVARAYA

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PIC: ROBOTICS CLUB EVENT POSTER

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) Robotics Club organized a technical fun event 'LE ROBOT' on 9<sup>th</sup> September 2022. This exclusive event started at 1.40 pm with all the members of our club. The event started exploring the hidden talent of our students and they were honored with winning certificates for their outstanding contributions during the Event. The event continued with the enthusiasm of our students. The program ended with a photo session.

**WINNERS LIST :**

STUDENTS NAME	YEAR	POSITION
Karthikeyen S Madhavan k Nethaji R	III	I
Madhu malini MK Jeevitha R Linda joice RP Ranking S	III	II
Kavipriya D Kaviya P Keerthana S Malathi M	II	III

11.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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OMR, Chennai - 119.

Counselling Code : 1317

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**ELECTRICAL CLUB**

Organizes

**ADSAP**

12 SEP  
10:20 | 11:40

Registration link: <https://bit.ly/Adsap>  
Merit Certificates will be provided to the winners

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
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**Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.**  
Principal, St. Joseph's College of Engineering

**Dr. G. Sreekumar M.Sc., M.Tech., Ph.D.** Dean Academics, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar M.E., Ph.D.** Dean Research, St. Joseph's College of Engineering  
**Dr. V. Vallinayagam M.Phil., Ph.D.** Dean Student Affairs, St. Joseph's College of Engineering

**Conveners**  
**Dr. Jayarama Pradeep M.E., Ph.D.** Professor & Head, Staff Office  
**Dr. T.V. Narmadha M.E., Ph.D.** Assistant Professor

**Staff Coordinators**  
Mr. R.G. NIRMALA M.Phil. Assistant Professor  
Mr. A.Sadeeshkumar M.Tech. Assistant Professor

**Student Coordinators**  
Abhisitha R | Abinaya V | Abinaya B | Dhanaakshmi R | Dhara V | Jeevitha U | Linda Joice R P | Nandhi Varshan Reddy R | Nivas M | Ranjya R | Sagaya Antony Ishwarya T | Shanthi Ashritha S | Sharan M

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PIC: ELECTRICAL CLUB EVENT POSTER

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) Electrical Club organized an event "Adsap" on 12<sup>th</sup> September 2022. This exclusive event started at 10.20 am with all the members of our club. The event started exploring the hidden talent of our students and they were honored with e-certificates for their outstanding contributions during the Event. The event continued with the enthusiasm of our students. The program ended with a photo session.

**WINNERS LIST :**

STUDENTS NAME	YEAR	POSITION
Raja Rajan .R Guhan. M Logeshwar.G	III	I
Lokeshwar Reddy K.V Joel Ebinezar Prasanna Kumar. V	III	II
Deepika .U Haripriya.M Darsini.R	III	III

12.



**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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Jeppiaar Educational Trust  
OMR, Chennai - 119.

Counselling Code : 1317  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**ANZURES SOUL**  
A Flummoxing Event

WINNERS WILL BE PROVIDED A HARDCOPY CERTIFICATE

1:00pm-3:00pm

**FOR 3<sup>rd</sup> YEARS**

**REGISTER HERE:**  
<https://forms.gle/SbKSkWslkvqJqT87>

on 29<sup>th</sup> SEPTEMBER 2022

**Chief Patron**  
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**Patrons**  
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Dean Academic, St. Joseph's College of Engineering  
Dr. Jayaram Pradeep M.E., Ph.D.  
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Dean Student Affairs, St. Joseph's College of Engineering  
Mr. R. Elanthirayan M.Tech., (Ph.D.) Assistant Professor  
Ms. S. P. Vedavalli M.E. (Ph.D.) Assistant Professor

**Convenors**  
Dr. Jayaram Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs  
Dr. T. V. Narmadha M.E., Ph.D.  
Professor & Head - Lab Affairs

**Student Coordinators**  
HARISHKUMAR.K THEJA THANUJ.S.R DHIVANESHP MUKUNTHASRI.R AMIRTHA VARSHINI.M  
RANJANIS ABINAYA PRIYA.R.A VISHNU PRIYAS HARRY JAKINS KAVIYA.P SIVA MALAVAN.E.S RAMYAR.R

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PIC: SAC EVENT POSTER

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) Social Awareness Club organized a grand Talent Exposing Competition "ANZURES SOUL" on October 1, 2022. This exclusive Competition started at 12:20 P.M. with all the members of Our Club. The event started Exploring the Talent of our Students and they were honored with awards and certificates for their outstanding contributions during the Event. The celebration continued with enthusiastic for our students. The program ended with a photo session.

**WINNERS LIST :**

STUDENTS NAME	YEAR	POSITION
Arish Kumar M Gokul A	III - A	I
Ruthiharshan R Venkatesh V	III - C	II
Shyfullah P.M Shyam Sundar J	III - C	III

13.



**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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OMR, Chennai - 119.

Counselling Code : 1317  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**ELECTRICAL CLUB**

ORGANIZE

10.20AM-11:40AM

**CRYPTIX**  
A Funistic Event

WINNERS WILL BE PROVIDED A HARDCOPY CERTIFICATE

**FOR 2<sup>nd</sup> YEARS**

**REGISTER HERE:**  
<https://forms.gle/SbKSkWslkvqJqT87>

on 06<sup>th</sup> SEPTEMBER 2022

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com  
Managing Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering  
Dr. C. Sreekumar M.Sc., M.Tech., Ph.D.  
Dean Academic, St. Joseph's College of Engineering  
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RANJANIS ABINAYA PRIYA.R.A VISHNU PRIYAS HARRY JAKINS KAVIYA.P SIVA MALAVAN.E.S RAMYAR.R

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PIC: ELECTRICAL CLUB EVENT POSTER

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) Electrical club organized a grand Talent Exposing Competition "CRYPTIX" on 29 SEPT, 2022. This exclusive Competition started at 10:20 A.M. with all the members of Our Club. The event started Exploring the Talent of our Students and they were honored with awards and certificates for their outstanding contributions during the Event. The celebration continued with enthusiastic for our students. The program ended with a photo session.

**WINNERS LIST :**

STUDENTS NAME	YEAR	POSITION
KAILASH I RAGUL D	II-B	I
SHEEBA GRACE A SHAMRUTHA J A	II-C	II
AKSHARA D ADIRAI D	II-A	III



14.



PIC: ISTE EVENT GROUP PHOTO

St. Joseph's ISTE Student Chapter from the Department of Electrical & Electronics Engineering organized a splendid Skill Revealing Competition "**EGG HEAD**" on September 15<sup>th</sup> 2022 This competition began at 1 p.m. with all of Our Club's members. The event began by showcasing our students' talents, and they were recognized with awards and certificates for their contributions throughout the event and the program concluded with a photo section.

**WINNERS LIST :**

STUDENTS NAME	YEAR	POSITION
Aruna devi& Deepika	III-A	I
Sumanth & Satheeshwar	III-C	II
Sivanathan & shyfullah	III-C	III

15.



PIC: STUDENT WITH TROPHY

Our student Hema K EEE III A Sec won third place in Table Tennis Women's organized by Seetharaman & Lakshmiammal Memorial Trophy, State Level Inter Engineering Tournament-2022 held at Sri Sairam Engineering College, Chennai from 29/09/2022 To 30/09/2022.

16.



PIC: STUDENT WITH TROPHY

Our student SHRESHTH TARUN MUKUND IV year EEE C won cash price of Rs 10,000/- and GOLD medal in SYED AMMAL STATE LEVEL INTER COLLEGIATE VOLLEYBALL TOURNAMENT organized by SYED AMMAL COLLEGE held at RAMANATHAPURAM from 7/10/2022 to 09/10/2022.

17.



PIC: STUDENT WITH TROPHY

Our student THIKSHITHA .B II EEE C won GOLD medal in BADMINTON WOMEN'S organized by SEETHARAMAN & LAKSHMIAMMAL MEMORIAL TROPHY, STATE LEVEL INTER ENGINEERING TOURNAMENT-2022 held at SRI SAIRAM ENGINEERING COLLEGE, CHENNAI from 29/09/2022 to 30/09/2022.

18.



PIC: ISTE EVENT GROUP PHOTO

St. Joseph's ISTE Student Chapter from the Department of Electrical & Electronics Engineering organized a splendid Skill Revealing Competition "ORIGAMI" on **SEPTEMBER 23, 2022**. This competition began at 1 p.m. with all of Our Club's members. The event began by showcasing our students' talents, and they were recognized with awards and certificates for their contributions throughout the event and the program concluded with a photo section.

**WINNERS LIST :**

STUDENTS NAME	YEAR	POSITION
SHEEBA GRACE A TRISA M P	II-C	I
SRENITHY M R VINODINI S	II-C	II
KAILASH PRAKASH M	II-B	III



## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail					
1	Publication/ Patent/Funded project/Awards	<b>S.No</b>	<b>Faculty Name</b>	<b>Date</b>	<b>Publication</b>	<b>Type</b>	<b>Link</b>
		1.	Dr.P.Deepa	27 Aug 2022	Published	Patent	<a href="https://drive.google.com/file/d/1pG_vKPWjonSgt0QUSpYY1TP_jiMLQiBy/view?usp=sharing">https://drive.google.com/file/d/1pG_vKPWjonSgt0QUSpYY1TP_jiMLQiBy/view?usp=sharing</a>

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241047499 A

(19) INDIA

(22) Date of filing of Application :20/08/2022

(43) Publication Date : 26/08/2022

(54) Title of the invention : A METHOD AND SYSTEM FOR COLLABORATIVE SECURITY KEY GENERATION FOR AD-HOC INTERNET OF THINGS (IOT) NODES

(71)Name of Applicant :

1)Dr.C.S.Boopathi

Address of Applicant :Associate Professor, Department of EEE, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India. Pin Code:603203 Kanchipuram -----

2)Mrs.Jyothi Prasad

3)Ms.Priyanka Koduru

4)Dr.C.Balarengadurai

5)Dr.V.Lokeswara Reddy

6)Mrs.Bingi Manorama Devi

7)Mrs.V.Sudha

8)Dr.P.Deepa

9)Dr.Animesh Kumar Sharma

10)Dr.Chinnala Balakrishna

Name of Applicant : NA

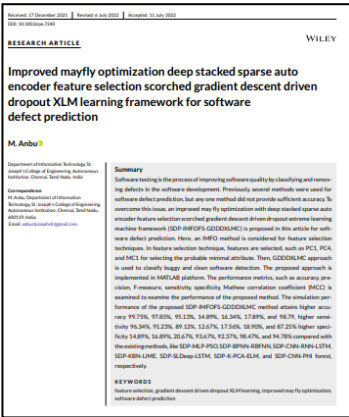

Address of Applicant : NA


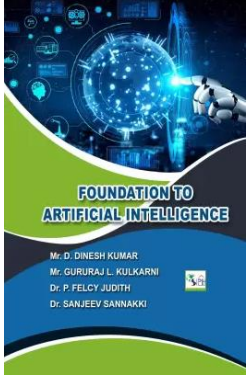
(72)Name of Inventor :



1)Dr.C.S.Boopathi

Address of Applicant :Associate Professor, Department of EEE, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India. Pin Code:603203 Kanchipuram -----

# DEPARTMENT OF INFORMATION TECHNOLOGY

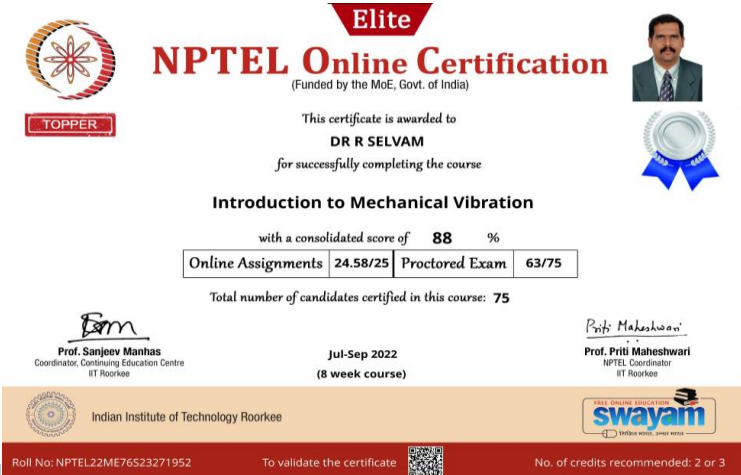


Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	 <p>Author: <b>M. Anbu</b> published a paper in <b>Annexure – I</b>, <b>Impact Factor: 1.831</b></p>	<p style="text-align: center;"><b>Staff Publication</b></p> <p><b>M. Anbu</b>, “Improved mayfly optimization deep stacked sparse auto encoder feature selection scorched gradient descent driven dropout XLM learning framework for software defect prediction”, <i>Concurrency and Computation: Practice and Experience</i>, (Publisher: Wiley, E ISSN:1532-0634), p.e7240, DOI: 10.1002/cpe.7240, Aug 2022. (<b>Impact Factor: 1.831, SCI Extended, Annexure-I</b>).</p> <p><b>Abstract:</b> Software testing is the process of improving software quality by classifying and removing defects in the software development. Previously, several methods were used for software defect prediction, but any one method did not provide sufficient accuracy. To overcome this issue, an improved may fly optimization with deep stacked sparse auto encoder feature selection scorched gradient descent driven dropout extreme learning machine framework (SDP-IMFOFS-GDDDXLMC) is proposed in this article for software defect prediction. Here, an IMFO method is considered for feature selection techniques. In feature selection techniques, features are selected such as PC1, PC4, and MC1 for selecting the probable minimal attribute. Then, GDDDXLMC approach is used to classify buggy and clean software detection. The proposed approach is implemented in MATLAB platform. The performance metrics, such as accuracy, precision, F-measure, sensitivity, specificity, Mathew correlation coefficient (MCC) is examined to examine the performance of the proposed method. The simulation performance of the proposed SDP-IMFOFS-GDDDXLMC method attains higher accuracy 99.73%, 97.82%, 95.23%, 94.89%, 96.34%, 97.89%, and 98.79% higher sensitivity 94.84%, 95.23%, 89.23%, 92.47%, 97.65%, 98.93%, and 97.21% higher specificity 94.89%, 96.89%, 92.47%, 93.47%, 92.37%, 96.47%, and 94.78% compared with the existing methods, the SDP-IMFOFS, SDP-IMFOFS-IMFOFS, SDP-CNN-IMFOFS, SDP-IMFOFS-LIME, SDP-IL2Net-IMFOFS, SDP-IFCA-ELM, and SDP-CNN-P48 based, respectively.</p> <p><b>KEYWORDS</b> Feature selection, scorched gradient descent dropout XLM learning, improved may fly optimization, software defect prediction</p>
2	 <p>Author: <b>Lilly Raamesh</b> published a paper in <b>Annexure– I</b>, <b>Impact Factor: 5.102</b></p>	<p><b>Lilly Raamesh, S. Radhika, S. Jothi</b>, “A cost-effective test case selection and prioritization using hybrid battle royale-based remora optimization”, <i>Neural Computing and Applications</i>, pp.1-13, <a href="https://doi.org/10.1007/s00521-022-07627-1">https://doi.org/10.1007/s00521-022-07627-1</a>, pp. 1-13, Publisher: Springer, E ISSN: 1433-3058, Print ISSN: 0941-0643, Sep 2022. (<b>Impact Factor 5.102, SCI Extended, Annexure-I</b>).</p> <p><b>Abstract:</b> Due to the reason, that many test cases in the software industry can be reused, selection and prioritizing techniques are essential during the regression and validation testing phases. However, time and project-specific limits must be observed. We present a hybrid optimization strategy to solve test case selection and prioritizing challenges in this research. The proposed method is the hybridization of Battle Royale Optimization (BRO) and Remora Optimization (RO) algorithm, which is named as hybrid Battle Royale-based Remora Optimization (HBR2 O) algorithm. We focus on issues with pseudo-polynomial time complexity and low memory usage, which may be used to tackle problems like selection-prioritization and selection across collections of test suites or test cases. Dynamic programming optimization approaches require a large amount of memory, yet memory is limited. As a result of the decreased memory usage, the selection method includes a larger number of test cases. During the selection of software test cases, the proposed method's effectiveness is validated using multiple state-of-the-art techniques, resulting in improved performance.</p> <p><b>Keywords</b> Test case selection, Prioritization, Selection cost, Battle Royale optimization, Remora optimization algorithm</p>

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
3	 <p data-bbox="352 665 541 698">Sanction Order</p>	<p data-bbox="1249 337 1465 365" style="text-align: center;"><b><u>Funded Proposal</u></b></p> <p data-bbox="709 373 1507 535"> <b>Name of the Investigator: Dr. V. Muthulakshmi</b>  <b>Name of the Agency: AICTE, AQIS, Center for SC/ST</b>  <b>Scheme: Skill Development Programme Center for SC/ST Students</b>  <b>Amount Received: 3,75,600 (2<sup>nd</sup> Installment)</b>  <b>Status: Ongoing</b> </p>
4	 <p data-bbox="310 1153 630 1282"> <b>Author: D. Dinesh Kumar</b>  published a Book entitled  <b>“Foundation to Artificial Intelligence”</b> </p>	<p data-bbox="1255 730 1459 760" style="text-align: center;"><b><u>Book Published</u></b></p> <p data-bbox="709 795 1312 828"> <b>Title of Book: Foundation to Artificial Intelligence</b> </p> <p data-bbox="709 868 1081 1031"> <b>Authors:</b>  1. Mr. D. Dinesh Kumar  2. Mr. Gururaj L. Kulkarni  3. Dr. P. Felcy Judith  4. Dr. Sanjeev Sannakki </p> <p data-bbox="709 1063 1039 1096"> <b>ISBN No: 9789356253711</b> </p>

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution															
5	 <p style="text-align: center;">FDP Certificate</p>	<p style="text-align: center;"><b>Online FDP Attended by Faculty</b></p> <table border="1" data-bbox="722 342 1986 443"> <thead> <tr> <th>S.No</th> <th>Title of the topic</th> <th>Name of the Staff</th> <th>Conducted By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>FDP on Amazon Web services</td> <td>R Kannan</td> <td>Panimalar Engineering college</td> <td>22-8-22 to 27-8-22 ( 6 days)</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	FDP on Amazon Web services	R Kannan	Panimalar Engineering college	22-8-22 to 27-8-22 ( 6 days)					
S.No	Title of the topic	Name of the Staff	Conducted By	Date													
1.	FDP on Amazon Web services	R Kannan	Panimalar Engineering college	22-8-22 to 27-8-22 ( 6 days)													
6	 <p style="text-align: center;">Sample Certificate</p>	<p style="text-align: center;"><b>Online certifications</b></p> <p>35 Online certifications have been obtained from some of the reputed online course platforms.</p> <table border="1" data-bbox="961 784 1747 1016"> <thead> <tr> <th>S.No</th> <th>Course Platform</th> <th>No of certifications</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Udemy</td> <td>28</td> </tr> <tr> <td>2</td> <td>Internshala</td> <td>4</td> </tr> <tr> <td>3</td> <td>Outreach and digital Education(IITM)</td> <td>1</td> </tr> <tr> <td>4</td> <td>EduCBA</td> <td>1</td> </tr> </tbody> </table>	S.No	Course Platform	No of certifications	1	Udemy	28	2	Internshala	4	3	Outreach and digital Education(IITM)	1	4	EduCBA	1
S.No	Course Platform	No of certifications															
1	Udemy	28															
2	Internshala	4															
3	Outreach and digital Education(IITM)	1															
4	EduCBA	1															



# DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks				
1	<p>NPTEL Courses</p>  <p><b>Elite</b> <b>NPTEL Online Certification</b> (Funded by the MoE, Govt. of India)</p> <p>This certificate is awarded to <b>DR R SELVAM</b> for successfully completing the course</p> <p><b>Introduction to Mechanical Vibration</b> with a consolidated score of <b>88</b> %</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Online Assignments</td> <td>24.58/25</td> <td>Proctored Exam</td> <td>63/75</td> </tr> </table> <p>Total number of candidates certified in this course: <b>75</b></p> <p>Prof. Sanjeev Manhas Coordinator, Continuing Education Centre IIT Roorkee</p> <p>Jul-Sep 2022 (8 week course)</p> <p>Prof. Priti Maheshwari NPTEL Coordinator IIT Roorkee</p> <p>Indian Institute of Technology Roorkee</p> <p>swayam</p> <p>Roll No: NPTEL22ME76523271952      To validate the certificate       No. of credits recommended: 2 or 3</p>	Online Assignments	24.58/25	Proctored Exam	63/75	<p>Dr.R.Selvam Completed Online NPTEL Course on Introduction to Mechanical Vibration with a Score of 88%</p>
Online Assignments	24.58/25	Proctored Exam	63/75			
2	<p>Online Program Attended:</p>  <p><b>PROJECT CERTIFICATE</b></p> <p>30 Sep, 2022</p> <p><b>LIONUS LEO G M</b> has successfully completed</p> <p>Develop a Company Website with Wix</p> <p>an online non-credit project authorized by Coursera Project Network and offered through Coursera</p> <p><i>Abby Saay</i> Abby Saay Subject Matter Expert Freedom Learning Group</p> <p>Verify at: <a href="https://coursera.org/verify/4AHYPS5464K">https://coursera.org/verify/4AHYPS5464K</a> Coursera has confirmed the identity of this individual and their participation in the project.</p>	<p>Dr.G.M.Lionus Leo completed a Online program on Develop a company Website with Wix by Coursera</p>				

3

**Guest Lecture:**

The College, 119-120 11  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
OMR, Chennai - 119.

Cambridge  
nif  
NEA  
AICTE

COUNSELLING CODE: 1317

**DEPARTMENT OF MECHANICAL ENGINEERING**  
*Organised Guest Lecture on*  
**ESSENTIAL OF RENEWABLE ENERGY AND OPPORTUNITIES**

**SPEAKER**  
**DR. K. PUSHPAMATHAN**  
DIRECTOR  
TBS ENERGY PRIVATE LIMITED, CHENNAI

**VENUE: BASIL HALL,  
PLACEMENT BLOCK**  
**DATE & TIME: 09.09.2022**  
**FROM 11.00 AM TO 12.00 NOON**

st.josephgroupofinstitutions | \*FOR ADMISSIONS: VISIT [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in)

Guest Lecture was organized on **Essential of Renewable Energy and Opportunities** on 09.09.22.

## Patents Published:

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/09/2022

(54) Title of the invention : COIR PITH, WASTE STRAW, ACTIVATED CARBON OF DIPLOCYCLOS PALMATUS

(51) International classification :A61P0003040000, C12Q0001688300, C12Q0001480000, G01N0033564000, A61K0038450000

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(21) Application No.202241050757 A

(43) Publication Date : 16/09/2022

(71)Name of Applicant :  
**1Dr. G. K. AYYADURAI(SSEC)**  
Address of Applicant :F3/35, SUBI HOME RANGANATHAN STREET, SELAIYUR, CHENNAI TAMIL NADU, INDIA 600073 -----

**2Dr. R. JAYAPRAKASH(SAS, AV CAMP)**  
**3Dr. B. PREETHIRAT.TEC.CAMP)**  
**4Dr. L. AMEETH BASHA,(SAS, AV CAMP)**  
**5Dr. VADDI SESHAGIRI RAO, (SJCE)**  
**6Dr. SATHISH RENGARAJAN,(SJCE)**  
**7MUHAMMED ABRAAR S. A. (SJIT)**  
**8HARHARAN VENKATASUBRAMANIAN (MIT)**  
Name of Applicant : NA  
Address of Applicant : NA

(72)Name of Inventor :  
**1Dr. G. K. AYYADURAI(SSEC)**  
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**2Dr. R. JAYAPRAKASH(SAS, AV CAMP)**  
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**3Dr. B. PREETHIRAT.TEC.CAMP)**  
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**4Dr. L. AMEETH BASHA,(SAS, AV CAMP)**  
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**6Dr. SATHISH RENGARAJAN,(SJCE)**  
Address of Applicant :F3/35, SUBI HOME RANGANATHAN STREET, SELAIYUR, CHENNAI TAMIL NADU, INDIA 600073 -----

**7MUHAMMED ABRAAR S. A. (SJIT)**  
Address of Applicant :F3/35, SUBI HOME RANGANATHAN STREET, SELAIYUR, CHENNAI TAMIL NADU, INDIA 600073 -----

**8HARHARAN VENKATASUBRAMANIAN (MIT)**  
Address of Applicant :F3/35, SUBI HOME RANGANATHAN STREET, SELAIYUR, CHENNAI TAMIL NADU, INDIA 600073 -----

(57) Abstract :

Utilizing coir pith powder, fly ash, and waste straw in combination with activated carbon . made from Diplocyclos palmatus fruits, compressed light-weight porous bricks to treat wastewater from the textile and dyeing industries in order to reduce pollution. Keywords: Textile waste water treatment, activated carbon, Diplocyclos palmatus fruits, fly ash,

No. of Pages : 11 No. of Claims : 5

The Patent Office Journal No. 37/2022 Dated 16/09/2022

58330

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/09/2022

(54) Title of the invention : SYNTHESIS, CHARACTERIZATION, ANTICANCER, NLO, AND CORROSION INHIBITION APPLICATIONS OF NOVEL THIAZOL -4-CARBONYL-THIAZOLE-4-CARBOHYDRAZIDE DERIVATIVES

(51) International classification :A23L0033180000, A61P0007000000, A23J0003340000, A61K0031442700, B04N0019105000

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(21) Application No.202241050755 A

(43) Publication Date : 16/09/2022

(71)Name of Applicant :  
**1Dr. R. JAYAPRAKASH(SAS, AV CAMP)**  
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**2Dr. G.K. AYYADURAI, (SSEC)**  
**3Dr. VADDI SESHAGIRI RAO, (SJCE)**  
**4Dr. SATHISH RENGARAJAN,(SJCE)**  
**5Mr. RAJAT KUMAR DWIBEDI, (AVIT)**  
**6Dr. R. ASHOK KUMAR**  
**7MUHAMMED ABRAAR S. A. (SJCE)**  
**8HARHARAN VENKATASUBRAMANIAN (MIT)**  
**9Dr. B. PREETHIRAT.TEC.CAMP)**  
Name of Applicant : NA  
Address of Applicant : NA

(72)Name of Inventor :  
**1Dr. R. JAYAPRAKASH(SAS, AV CAMP)**  
Address of Applicant :NO. 2/11A, THIRUVALLUVAR STREET, KARASANGAL, CHENNAI TAMIL NADU, INDIA, 601301. -----

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**5Mr. RAJAT KUMAR DWIBEDI, (AVIT)**  
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**6Dr. R. ASHOK KUMAR**  
Address of Applicant :NO. 2/11A, THIRUVALLUVAR STREET, KARASANGAL, CHENNAI TAMIL NADU, INDIA, 601301. -----

**7MUHAMMED ABRAAR S. A. (SJCE)**  
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**8HARHARAN VENKATASUBRAMANIAN (MIT)**  
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**9Dr. B. PREETHIRAT.TEC.CAMP)**  
Address of Applicant :NO. 2/11A, THIRUVALLUVAR STREET, KARASANGAL, CHENNAI TAMIL NADU, INDIA, 601301. -----

(57) Abstract :


Synthesis of single crystal thiazole-4-carbonyl-thiazole-4-carbohydrazide for anticancer, nonlinear activity, metal complexes for catalytic activity and corrosion inhibition applications on TIG welded joints. This invention examined multiple fields of applications of the prepared compounds. Keywords: Thiazole derivatives, anticancer activity, NLO property, inhibition, metal \* complexes

No. of Pages : 11 No. of Claims : 4

The Patent Office Journal No. 37/2022 Dated 16/09/2022

58329

## DEPARTMENT OF MATHEMATICS AND ENGLISH

Events	Remarks					
<b>FDP/Workshop/Conference</b>						
	<b>S.No</b>	<b>Name of the Staff</b>	<b>Program Title</b>	<b>National/ International</b>	<b>Organized by</b>	<b>Date</b>
	1	Dr.V.Vallinayagam	Current Trends in Application of Mathematics	International	Vel Tech University, Chennai	14 days 21-09-2022 to 04-10-2022
	2	Dr.K.Sasikala				
	3	Dr.G. Meenadevi				
	4	Dr.G.Purushothaman				
	5	Mr.K.S.Sudhakhar				
	6	Dr.G.Venkat Narayanan				
	7	Mr.C.Sankar				
	8	Ms. D. Arivukkodi				
	9	Mr.S.Manikanda Prabhu				
	10	Mr.S.M.Balaji				
	11	Dr.K.Suresh				
	12	Dr.N.Jose Parvin Praveena				
	13	Mr.K.Suresh				
	14	Dr.P. Agilan				
	15	Dr.S, Arul Amirtha Raja				
	16	Dr.K.Juliet Raja				

A group of 65 students (CSE : 21 , IT : 34, and AML: 10) participated in the Smart Hackathon 2022 (Hackathon National Level) held in various cities all over India. **One team from AML (5 members) won the prize in the Smart Hackathon 2022.**

S.NO	NAME OF THE STUDENT	TEAM NAME	VENUE	EVENT DATE	PLACE & CASH PRIZE
1	Mr. Bharath Kishore	Propellers	Vardhaman College of Engineering Nagarguda, Kacharam, Hyderabad,	23/08/2022 to 28/08/2022,	Joint Winner Rs.50,000/-
2	Mr, Kathir Nilavan				
3	Mr. Suresh				
4	Ms. Keerthana				
5	Ms. Namitha				

Awards/Prize won by students



Publications(only published) details

1. Dr. N. Jose Parveen Praveena , Travelling Salesman problem through fuzzy numbers using dynamic Programming, AIP Publishing, Vol. 2529 (1), page 0200171- 0200179, September 2022. SCOPUS , DOI : <https://doi.org/10.1063/5.0103798>
2. Dr. K.JULIETRAJA, Theoretical Analysis of Superphenalene Using Different Kinds of VDB Indices, Journal of Chemistry, Vol. 2022 (5683644), page 1-10, September 2022. SCIE (WOS), DOI : <https://doi.org/10.1155/2022/5683644>



## DEPARTMENT OF MBA

### WORKSHOP/FDP/STP/CONFERENCE / SEMINAR ATTENDED BY FACULTY:



Dr. Jawahar Rani K and Dr. Lakshmi R. S have presented a paper titled “Rural Marketing and Challenges of Entrepreneurs” in International Conference on Re-inventing Business Practices, Startups and Sustainability held on 29 & 30 September 2022 organised by DoMS, SRM Institute of Science and technology in association with University of Nizwa.

Dr. Lakshmi R.S has attended a National Seminar titled “Quality Enhancement Sustainment Measures in Higher Education: Innovation, Trends and Challenges” organised by IQAC Cell – SRM Valliammai Engineering College, Chennai.

Mr. K. Dheenadhayalan & Dr. K. Sampath have participated Two Days Virtual National Seminar on “Atmanirbhar Bharat: Need of the hour for reviving as self-reliant amid the pandemic Covid” on 19 & 20 September 2022 organised by College of Management, SRM Institute of Science and Technology, Chennai.

Mr. K. Dheenadhayalan has participated One Week National Level FDP on “National Education Policy” organised by IQAC, St. Peter’s Institute of Higher Education and Research from 19.09.2022 to 25.09.2022.



## DEPARTMENT OF SCIENCE


Sl. No.	Events	Remarks
1	FDP/Workshop/Conference	<p style="text-align: center;"><b><u>Resource person</u></b></p> <p>1. Dr. K. Jayamoorthy has been invited as a resource person and delivered a lecture at the “National level conference on Materials” conducted by AVS College of arts and science, Salem on 20.9.22.</p> <p style="text-align: center;"><b><u>Presented Paper / poster</u></b></p> <p>1. Dr. N.R. Rajagopalan presented a poster in the “National conference on Chemical Sciences for futuristic advancements” conducted by “Easwari Engineering College, Chennai” held from 01.09.22 to 02.09.22</p> <p>2. Ms. S. Savitha, Dr. K. Jayamoorthy, Dr. S. Suresh presented a poster in the “National conference on newer materials for energy and environmental applications” conducted by Annamalai University, Chidambaram held from 22-09-22 to 23-09-22.</p> <p style="text-align: center;"><b><u>Udemy certification</u></b></p> <p>1. Dr. N.R. Rajagopalan completed a certification program on “Chemistry for IIT JEE &amp; NEET” conducted by “Udemy” on 19.9.22.</p> <p style="text-align: center;"><b><u>Participated</u></b></p> <p>1. Dr. S.M. Prakash, Dr. N.R. Rajagopalan, Ms. J. Sharmila, Ms. S. Savitha attended 12 days National FDP on “Current Trends and Innovations in Biological Sciences” conducted by “Chettinad Academy of Research and Education, Kelambakkam, Chennai” from 22.08.22 to 07.09.22.</p> <p>2. Dr. P. Krishnan, Dr. S. Manikandan, Dr. S. Suresh, Mr. S. Kaleel Mohamed</p>

		<p>Ibrahim, Dr. S. Rama, Ms. J. Sharmila, Dr. N. Punitha, Ms. S. Savitha, Dr. A. Arulmozhi, Dr. S. Kiruba, Ms. A. Mahalakshmi, Dr. V. Swarnalatha attended 8 days “International Faculty Development Program on Foremost Frontiers of Material Science” conducted by “Sathyabama Institute of Science and Technology , Chennai” held from 12.09.22 to 20.09.22</p> <p>3. Dr. B. Subash, Dr. S.M. Prakash attended International FDP on “Educator's Role in Promoting Mental Health and Wellness” conducted by “Bharat Institute of Engineering and Technology, Chennai” on 17.09.22</p> <p>4. Dr. V. Swarnalatha, Ms. J. Sharmila, Ms. S. Savitha attended “National conference on newer materials for energy and environmental applications” conducted by “Thiyagarajar College, Madurai” held on 26.9.22</p>
2	<b>Publications(only published) details</b>	<p><b><u>Patent Publication</u></b></p> <p>1. Dr. N.R. Rajagopalan published a patent titled “Using A Fluidic Sensor With Plain Radiography To Track Bone Healing” in the journal issue 36/2022 dated 09.09.22.</p>
3	<b>Other activities(if any)</b>	<p>Department of Science conducted the following online events for school students:</p> <p>1) Pencil art contest – 01.09.22</p>

## DEPARTMENT OF CHEMICAL ENGINEERING


S.No.	Title of the Events and Photographs	Details of the Event
1.	<b>COLLABARATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS</b>	-
2.	<b>INDUSTRIAL VISIT</b>  	<p>❖ The department of Chemical Engineering has organized a one-day visit to Modern Bakers for III<sup>rd</sup> year students (50+2) on 19<sup>th</sup> August</p>
3.	<b>AWARDS/PRIZE WON BY STUDENTS</b>  	<p>- Abishek .R, II Year Chemical has participated in Modi Kabaddi League-2022, Held at Sivagangai and awarded as <i>Emerging Young Player of the Tournament</i></p>


## DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	<p><b>Industrial Visits, In plant trainings, Internships</b></p>	<p><b>Industrial Visits</b></p> <ul style="list-style-type: none"> <li>● Final Year students visited RMC plant of UltraTech cements on 21<sup>st</sup> September 2022 at <b>Pudupakkam</b>. Staff members accompanied are Dr.Vijai and Ms.Adlin Rose</li> </ul> <div style="text-align: center;">  </div>
2.	<ul style="list-style-type: none"> <li>● FDP/Workshop/Conference attended</li> </ul>	<ul style="list-style-type: none"> <li>● Ms.S.Banupriya &amp; Ms.R.Ruthra have attended a workshop titled Advanced Techniques of Bathymetry Survey for Reservoirs and Coastal Projects organized by Hydraulic Instrumentation Division of Central Water and Power Research Station, Pune during 20th – 21st September, 2022.</li> <li>● Mr.S.Thangaperumal have attended the Professional</li> </ul>



		<p>Development Programme on “Geographical Information System Applications in Disaster Management” organized by National Institute of Technical Teachers Training and Research (NITTTR) during 12th September to 16th September 2022.</p> <ul style="list-style-type: none"> <li>● Mr.S.P.Senthil Kumar has Completed NPTEL course on Reinforced Concrete Road Bridge with Elite and also it is equivalent to AICTE FDP during September 2022.</li> <li>● ADLIN ROSE R, Participated in the AICTE Recognized Faculty Development Programme on Outcome Based Curriculum Design Conducted by Curriculum Development Centre Department of NITTTR, Chandigarh from 05/09/2022 to 09/09/2022 (One Week) at St. Joseph's College of Engineering Chennai Tamil Nadu</li> </ul>
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3.	<p><b>Symposium</b></p>	<ul style="list-style-type: none"> <li>● Organized a National Level Technical Symposium “RECONIN’22” on Sep 17, 2022 with 134 participants from 22 different colleges in and around Chennai. The prize amount of Rs.30,000/- was distributed for all the five technical event winners.</li> </ul> 
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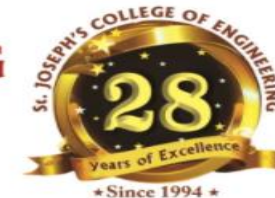
4.	<p><b>Value added Courses/Courses other than VAC</b></p>	<p>Five days training program on “ <b>Land surveying Using Total Station</b>” conducted for Final year students between 26 th September 2022 to 30th September2022. <b>Ladder Survey Institute of Technology</b> Chennai was the resource Institution.</p> 
5.	<p><b>Awards/Prize won by students</b></p>	<p>III year - Akash A &amp; Kalanithi R - Buzz er - SRM INSTITUTE OF SCIENCE &amp; TECHNOLOGY - FIRST PLACE</p>
6.	<p><b>Publications (only published) details</b></p>	<ul style="list-style-type: none"> <li>● R, Adlin &amp; N, Raahul &amp; D, Nirmal &amp; P, Harini &amp; R, Kiruthika &amp; M, Prem &amp; R, Naresh. (2022). Experimental, Numerical and Microscopic Analysis of Contaminated Clay with Precipitated Silica. Silicon. 10.1007/s12633-022-02078-8. <b>(Web of Science Indexed)</b></li> <li>● Dr.S.Thenmozhi &amp; Dr.V.Gowri published a paper on “Optimizing the parameters of Zirconium Carbide and Rice Husk Ash Reinforced with AA 2618 Composites”, Advances and Material Science and Engineering, Volume 2022. <a href="https://doi.org/10.1155/2022/1962523">https://doi.org/10.1155/2022/1962523</a>. <b>(Web of Science Indexed)</b></li> </ul>
7.	<p><b>Other activities (if any)</b></p>	<p>A <b>memorandum of understanding (MOU)</b> was signed with <b>Ladder Survey Institute Of Technology</b> on</p>

30th September 2022.










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**St. Joseph's Group of Institutions**  
**Jeppiaar Educational Trust**  
 OMR, Chennai - 119.



## OCTOBER 2022 DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p><b>FDP/WORKSHOP/CONFERENCE</b></p>  <p><b>NPTEL-AICTE</b>  <b>Faculty Development Programme</b>  <small>(Funded by the MoE, Govt. of India)</small></p>  <p>This certificate is awarded to  <b>DR M CHAMUNDEESWARI</b>      for successfully completing the course  <b>Genetic Engineering: Theory and Application</b>      with a consolidated score of <b>75 %</b></p>  <small>Prof. Andrew Thangaraj      NPTEL Coordinator      IIT Madras</small>  <small>(Jul-Oct 2022)</small>  <small>Prof. Dileep N. Malkhede      Advisor-I (Research, Institute &amp; Faculty Development)      All India Council for Technical Education</small> <p>Roll No: NPTEL22BT59S34462826      Duration of NPTEL course : 12 Weeks</p> <p><small>The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.      This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.      F.No. AICTE / RIFD / FDP through MOOCs / 2017-18</small></p> <p><b>Copy of Dr. M. Chamundeewari Certificate</b></p>	<p>Dr. M. Chamundeewari, Associate Professor, Department of Biotechnology has completed 12 week Online NPTEL course certificate in Genetic Engineering: Theory and Practice with Silver medal conducted by IIT Guwahati in October 2022</p> <p>Dr. C.Karthik, Associate Professor, Department of Biotechnology has completed 12 week Online NPTEL course certificate in Experimental Biotechnology with Silver medal conducted by IIT Guwahati in October 2022</p>



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**DR C KARTHIK**  
for successfully completing the course

## Experimental Biotechnology

with a consolidated score of **85** %

Online Assignments	23.35/25	Proctored Exam	61.5/75
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Total number of candidates certified in this course: **366**

**Prof. T. V. Bharat**  
Head, Centre for Educational Technology  
NPTEL Coordinator, IIT Guwahati

Jul-Oct 2022  
(12 week course)



Indian Institute of Technology Guwahati



Roll No: NPTEL22BT60554461272

To validate the certificate



No. of credits recommended: 3 or 4

## Copy of Dr.C.Karthik Certificate

Ms S.Yuwvaranni, Assistant Professor, Department of Biotechnology has completed 8 week Online NPTEL course certificate in Introduction to cell Biology with Silver medal conducted by IISER Pune - Indian Institute of Science and Education and Research Pune in October 2022

Ms K. R. Preethy, Assistant Professor, Department of Biotechnology has participated in a World Food day event conducted by SRM institute of Science and Technology held during 17<sup>th</sup> October 2022.

Ms K. R. Preethy, Assistant Professor, Department of Biotechnology has completed 12 week Online NPTEL course certificate in Experimental Biotechnology conducted by IIT Guwahati in October 2022

Ms B.Sangeetha, Assistant Professor, Department of Biotechnology has completed 12 week Online NPTEL course certificate in Experimental Biotechnology conducted by IIT Guwahati in October 2022

Ms. D. G. Caroline, Assistant Professor, Department of Biotechnology has completed 12 week Online NPTEL course certificate in Experimental Biotechnology with gold medal conducted by IIT Guwahati in October 2022





Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to  
**MS YUWVARANNI S**  
for successfully completing the course



## Introduction to Cell Biology

with a consolidated score of **78** %

Online Assignments	17.92/25	Proctored Exam	60/75
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Total number of candidates certified in this course: **616**

**Prof. M. S. Santhanam**  
Dean, International Relations and Outreach  
IISER Pune

Aug-Oct 2022  
(8 week course)

**Prof. Andrew Thangaraj**  
NPTEL Coordinator  
IIT Madras



IISER - Indian Institute of Science Education  
and Research Pune



Roll No: NPTEL22BT33554463710

To validate the certificate



No. of credits recommended: 2 or 3

### Copy of Ms. S. Yuwvaranni Certificate



### Copy of Ms. K.R.Preethy Certificate



# NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**PREETHY KR**

for successfully completing the course

**Experimental Biotechnology**

with a consolidated score of **70 %**

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



(Jul-Oct 2022)

Prof. Dileep N. Malkhede  
Advisor-I (Research, Institute & Faculty Development)  
All India Council for Technical Education

Roll No: NPTEL22BT60S54472809

Duration of NPTEL course : 12 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.  
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

**Copy of Ms. K.R.Preethy Certificate**



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**B SANGEETHA**

for successfully completing the course



## Experimental Biotechnology

with a consolidated score of **82** %

Online Assignments	24.35/25	Proctored Exam	57.75/75
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Total number of candidates certified in this course: **366**

Jul-Oct 2022  
(12 week course)

**Prof. T. V. Bharat**  
Head, Centre for Educational Technology  
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL22BT60S64461946

To validate the certificate



No. of credits recommended: 3 or 4

### Copy of Ms. B.Sangeetha Certificate



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**CAROLINE D G**

for successfully completing the course



## Experimental Biotechnology

with a consolidated score of **95** %

Online Assignments	23.53/25	Proctored Exam	71.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **366**

Jul-Oct 2022  
(12 week course)

**Prof. T. V. Bharat**  
Head, Centre for Educational Technology  
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL22BT60S64460881

To validate the certificate



No. of credits recommended: 3 or 4

**Copy of Ms. D.G. Caroline Certificate**

**SYMPOSIUM**



2.



**Photos of students participating in symposium**

The GENERA - 2022, symposium was conducted in the Department of Biotechnology for the students on 08.10.2022. The event brought together around 88 participants from 17 colleges including Science, Engineering, Law and Medicine stream. There were 5 events conducted Morpheme (Creative presentations for specific problem solving); Bionexxus (Connection); Murder Mystery (Forensic Investigation); Match My Genome (Debate) and Synaptic Manoeuvre (Quiz)

3.

**AWARDS/PRIZE WON BY STUDENTS**

Adeline Juanita. C student of IIIrd year Biotechnology has won IInd prize in New food product development event conducted by SRM Institute of Science and Technology held during 17<sup>th</sup> October 2022.

Deno Petricia. P student of IIIrd year Biotechnology has won IInd prize in New food product development event conducted



Copy of certificate Adeline Juanita. C



Copy of certificate Deno Petrecia. P

by SRM Institute of Science and Technology held during 17<sup>th</sup> October 2022

4.

INDUSTRIAL PROJECTS DONE BY STUDENTS

-



## PUBLICATIONS(ONLY PUBLISHED) DETAILS

5.



**Dr. G. Baskar**, Professor, Department of Biotechnology at St. Joseph's College of Engineering, Chennai, India has received Peer Review Certificate of Appreciation from *Preparative Biochemistry & Biotechnology Journal*.

Dr. G. Baskar – Copy peer review certificate of appreciation

## DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
1.	FDP/WORKSHOP/CONFERENCE	<ul style="list-style-type: none"> <li>• <b>Dr.Sujatha, Magesh.N and Lavanya.R, Assistant Professor</b> has completed NPTEL, Faculty Development programme for the course “<i>Basic Environmental Engineering and Pollution Abatement</i>” on October 2022</li> </ul>
2.	COMPETITIONS ATTENDED BY STUDENTS	<ul style="list-style-type: none"> <li>• <b>Ashwin Thambi</b> from <b>IV year Chemical</b> has won <b>IInd place</b> in <b>World Food Day Event</b> conducted by <b>SRM Institute of Sciencwe and Technology</b> in October</li> <li>• <b>Samuel P Thomas</b> from <b>III year Chemical</b> has won <b>IInd place</b> in <b>World Food Day Event</b> conducted by <b>SRM Institute of Sciencwe and Technology</b> in October</li> <li>• <b>Trisha &amp;Kaviya Selvi</b> from <b>III year Chemical</b> has participated and won <b>Ist place</b> for <b>Poster presentation</b> in <b>ZEALICHE-2K22</b> conducted by <b>Erode Sengunthar Engineering College,Perundurai</b> on 20and 21<sup>st</sup> of October</li> <li>• <b>Syed Abrar &amp; Varun</b> from <b>III year Chemical</b> has participated and won <b>IInd place</b> for <b>Paper presentation</b> in <b>ZEALICHE-2K22</b> conducted by <b>Erode Sengunthar Engineering College,Perundurai</b> on</li> </ul>

		20and 21 <sup>st</sup> of October
3.	<b>PUBLICATIONS(ONLY PUBLISHED) DETAILS</b>	<ul style="list-style-type: none"> <li>• <b>Dr.B.S.Rathi</b>, has published “<i>A critical review on Bio-Hydrogen generation from Biomass</i>” in <b>International Journal of Hydrogen Energy</b>.</li> </ul>

## DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	Guest Lecture / Webinar Organized	<p>An alumni dialogue on JOURNEY OF ENTREPRENEURSHIP was held at AV Hall library of St.Joseph's College of Engineering on 15th October (Saturday) from 11:30 am to 01:00 PM IST. The guest was <b>Mr. RAHUL MAHENDRAN, Founder of SpinalApp.in, Third Decade Youngsters Pvt. Ltd, Chennai</b>. Totally 58 second year students and 35 third year students of Civil Engineering have participated. The guest enlightened the students on his entrepreneurship journey along with tips for next generation entrepreneurs.</p>




An alumni dialogue on *THE SWITCH* was held at AV Hall library of St. Joseph's College of Engineering on 15th October (Saturday) from 8:30 am to 10:00 am IST. The guest was **Mr. Purushothaman S, Technology Analyst, Infosys, Chennai**. Totally 58 second year students and 35 final year students of Civil Engineering have participated. The guest enlightened the students on his civil to software journey along with tips for next generation software engineers with civil background.

		
2.	<b>Publications (only published) details</b>	<ul style="list-style-type: none"><li>• K.Vijai Published a paper titled “Strength, Durability and microstructural properties of geopolymers concrete: a review”, Indian Concrete Journal, June 2022, pp 41-58</li></ul>




## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


S.No	Events	Remarks
1.	 <p data-bbox="464 786 751 808"><b>PIC: ALUMNI INTERACTION</b></p>	<p data-bbox="1003 282 1980 342">Our student Mr.Prashaant Sunand of 2002 – 2012 batch working as Indigo Pilot, gave guidance to the final year students to prepare themselves for placement.</p>
2.	 <p data-bbox="464 1305 751 1328"><b>PIC: ALUMNI INTERACTION</b></p>	<p data-bbox="1003 818 1980 911">Our student Sri ram Soorya of 2016-2020 batch working as junior engineer in data Patterns India Ltd., (Defense and Aerospace Specialist) interacted with final year students and explained about the job opportunities in core companies.</p>

3.	 <p style="text-align: center;"><b>PIC: ALUMNI INTERACTION</b></p>	<p>Our students kanagapriya s (2017-2021), MS in Electrical Energy and Power System, Teesside University and Karunya D (2017-2021), MS in Energy and Power System, university of Liverpool, interacted with II year students and give guidance to study abroad.</p>
4.	<p style="text-align: center;"><b>PLACEMENT DETAILS FOR THE MONTH OF OCTOBER 2022</b></p>	<p>Total No of students placed = 91 UG Students  Total No of Offers = 137 Offers  Total No of Students (UG) = 160  Total No of Eligible Students (UG) = 144 (All Clear &amp; 1 arrear students)  Total No of Eligible Students (PG) = 06  % of students Placed (PG) = NIL  No of students having single offers = 54  No of students having Double offers = 28  No of students having Triple offers = 09</p>

5.




Microprocessors and Microsystems  
Volume 94, October 2022, 104665



Hybrid pixel based method for multimodal image fusion based on Integration of Pulse Coupled Neural Network (PCNN) and Genetic Algorithm (GA) using Empirical Mode Decomposition (EMD)

R. Indhumathi <sup>\*</sup>, R. T.V. Narmadha <sup>\*</sup>, Harrison kurusekhan <sup>\*</sup>

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<https://doi.org/10.1016/j.micpro.2022.104665> [Get rights and content](#)

#### Abstract

Medical diagnosis using images is critical for defining the patient's condition and assisting the decision process for treatment by the physician. Certain infections and conditions like Colorectal Cancer, lung lesion, brain tumor, Metastasis can be ambiguous and the diagnosis cannot be accurately determined using single image. Image fusion is phenomena that helps to alleviate this underlying problem. Image fusion is the process of integrating complementary information from two or more distinct images into a single image without loss of information. It has the capability to process the information from each pixel in the input image and endure the information from source images thereby improving the readability of information, thus aiding the physicians to diagnose the health conditions in a much efficient manner. In this paper, we propose a novel image fusion strategy that is the amalgamation of Pulse Coupled Neural Network (PCNN) and Genetic Algorithm (GA) using Empirical mode Decomposition (EMD). We compared our technique to some of the classic and novel image fusion strategies in our performance evaluation. Hybridization of PCNN with GA using EMD improves the fusion effect, image detail clarity, and time efficiency considerably than existing state of art strategies. Our quantitative analysis illustrates the effectiveness of the proposed strategy in terms of entropy, Percentage Residual Difference (PRD), Root Mean Square Error (RMSE) and Peak Signal to Noise Ratio (PSNR).

**PIC: Paper Screen shot**

Our staff member Dr.T.V.Narmadha, published paper title on “Hybrid pixel based method for multimodal image fusion based on Integration of Pulse Coupled Neural Network (PCNN) and Genetic Algorithm (GA) using Empirical Mode Decomposition (EMD)” in Microprocessors and Microsystems

6.

The poster is for a two-day workshop organized by the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering. It features logos for NBR, ARHA, NAAC (A+), NIRF, Cambridge, and NSIC. The text includes the college name, accreditation details, workshop dates (13/10/2022 & 14/10/2022), topic (Embedded System -IoT and AI), and a list of staff members including the Chief Patron, Patrons, Convenors, and Staff Coordinator. A circular badge indicates it is open to all second-year students.

**PIC: Student workshop poster**

Student Workshop on “Embedded System-IoT and AI” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering. Resource person was from NSIC Ltd. Feedback was collected from the participants about the program and it was observed that they have found the program very useful and informative. Certificates are distributed to the participants.

No of Student Participants : 49 (EEE Students)

7.

The poster is for a two-day workshop organized by the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering. It features logos for NBR, ARHA, NAAC (A+), NIRF, Cambridge, and NSIC. The text includes the college name, accreditation details, workshop dates (13/10/2022 & 14/10/2022), topic (Electric Vehicles), and a list of staff members including the Chief Patron, Patrons, Convenors, and Staff Coordinator. A circular badge indicates it is open to all second-year students.

Student Workshop on “Electric Vehicles” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering. Resource persons from NSIC Ltd. Feedback was collected from the participants about the program and it was observed that they have found the program very useful and informative. Certificates are distributed to the participants.

No of Student Participants : 49 (EEE Students)



PIC: Student workshop poster

8.

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NBA ARIIA NAAC A+ NIRF Cambridge

COUNSELLING CODE-1317  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organises  
TWO DAYS STUDENTS WORKSHOP  
IN ASSOCIATION WITH  
**NSIC**  
National Small Industries Corporation

13/10/2022  
&  
14/10/2022

OPEN TO  
ALL  
SECOND YEAR  
STUDENTS

TOPIC: IOT APPLICATIONS USING RASPBERRY PI  
CERTIFICATES WILL BE PROVIDED

Chief Patron  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

Patrons  
Mrs. B. Jessie Priya M.Com  
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Mr. B. Shashi Sekar M.Sc  
Executive Director, St. Joseph's Group of Institutions  
Dr. Vaidi Seshagiri Rao M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering

Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D.  
Dean Students Affairs, St. Joseph's College of Engineering  
Dr. A. Chandra Sekar M.E., Ph.D.  
Dean Research, St. Joseph's College of Engineering  
Dr. G. Sreekumar M.Sc., M.Tech, Ph.D.  
Dean Academics, St. Joseph's College of Engineering

Convenors  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs  
Dr. T. V. Narmadha M.E., Ph.D.  
Professor & Head - Lab Affairs

Staff Coordinator  
MRS. S. P. Vedavalli M.E., (Ph.D.)  
Assistant Professor  
Dr. M. Anitha M.E., Ph.D.  
Assistant Professor

\*For Admissions: Visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or Contact: 9940104881 / 9940104882

PIC: Student workshop poster

Student Workshop on “IoT Applications using Raspberry Pi” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering. Resource persons was from NSIC Ltd. Feedback was collected from the participants about the program and it was observed that they have found the program very useful and informative. Certificates are distributed to the participants.

No of Student Participants : 49 (EEE Students)



9.

The poster features a grid background with various logos at the top, including St. Joseph's College of Engineering, NSIC, and accreditation bodies like NAAC, NIRF, and Cambridge. The central text reads 'DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Organises TWO DAYS STUDENT WORKSHOP IN ASSOCIATION WITH NSIC National Small Industries Corporation'. Dates '13/10/2022 & 14/10/2022' are in a purple box, and 'OPEN TO ALL SECOND YEAR STUDENTS' is in a purple circle. The topic is 'PLC SCADA WITH INDUSTRIAL APPLICATIONS' with a note that certificates will be provided. A list of staff members follows, categorized as Chief Patron, Patrons, Convenors, and Staff Coordinator.

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Jeppiaar Educational Trust  
OMR, Chennai - 119.

**COUNSELLING CODE-1317**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**Organises**  
**TWO DAYS STUDENT WORKSHOP**  
**IN ASSOCIATION WITH**  
**NSIC**  
National Small Industries Corporation

**13/10/2022**  
&  
**14/10/2022**

**OPEN TO ALL SECOND YEAR STUDENTS**

**TOPIC: PLC SCADA WITH INDUSTRIAL APPLICATIONS**  
**CERTIFICATES WILL BE PROVIDED**

**Chief Patron**  
**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**

**Mrs. B. Jessie Priya** M.Com  
Managing Director, St. Joseph's Group of Institutions

**Mr. B. Shashi Sekar** M.Sc  
Executive Director, St. Joseph's Group of Institutions

**Dr. Vaddi Seshagiri Rao** M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering

**Dr. V. Vallinayagam** M.Sc., M.Phil., Ph.D.  
Dean Students Affairs, St. Joseph's College of Engineering

**Dr. A. Chandra Sekar** M.E., Ph.D.  
Dean Research, St. Joseph's College of Engineering

**Dr. G. Sreekumar** M.Sc., M.Tech., Ph.D.  
Dean Academics, St. Joseph's College of Engineering

**Convenors**

**Dr. Jayaram Pradeep** M.E., Ph.D.  
Professor & Head - Staff Affairs

**Dr. T.V. Narmadha** M.E., Ph.D.  
Professor & Head - Lab Affairs

**Staff Coordinator**  
**MRS. S.P. Vedavalli** M.E., Ph.D.  
Assistant Professor

**Dr. M. Anitha** M.E., Ph.D.  
Assistant Professor

\*For Admissions: Visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or Contact: 9940104881 / 9940104882

**PIC: Student workshop poster**

Student Workshop on “PLC SCADA with Industrial Applications” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering. Resource persons was from NSIC Ltd. Feedback was collected from the participants about the program and it was observed that they have found the program very useful and informative. Certificates are distributed to the participants.

No of Student Participants : 47 (EEE Students)

10.

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 IIT Roorkee  
 IIT Guwahati  
 IIT Hyderabad  
 IIT Jodhpur  
 IIT Patna  
 IIT Varanasi  
 IIT Bhubaneswar  
 IIT Gandhinagar  
 IIT Kharagpur  
 IIT Ropar  
 IIT Tirupur  
 IIT Vadodra  
 IIT Mandi  
 IIT Roorkee  
 IIT Guwahati  
 IIT Hyderabad  
 IIT Jodhpur  
 IIT Patna  
 IIT Varanasi  
 IIT Bhubaneswar  
 IIT Gandhinagar  
 IIT Kharagpur  
 IIT Ropar  
 IIT Tirupur  
 IIT Vadodra  
 IIT Mandi

**DEPARTMENT OF  
 ELECTRICAL AND ELECTRONICS ENGINEERING**  
 On behalf of IEEE day  
 presents- A Webinar on  
*Art of being a professional*

**Ms. A K DEEPA**  
 Associate Professor  
 Faculty Advisor, PES IEEE SCT SB  
 Secretary-IEEE WIE AG -2019- Kerala Section  
 Date : 12.10.2022  
 Time : 08.00 PM -  
 09.00 PM

**Chief Patron**  
**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.  
 Chairman, St. Joseph's Group of Institutions

**Patrons**  
**Mrs. S. Jessie Priya** M.Com.  
 Managing Director, St. Joseph's Group of Institutions  
**Mr. B. Shashi Sekar** M.Sc.  
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 Principal, St. Joseph's College of Engineering

**Dr. V. Vallinayagam** M.Phil., Ph.D.  
 Dean Student Affairs, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar** M.E., Ph.D.  
 Dean Research, St. Joseph's College of Engineering  
**Dr. C. Sreekumar** M.Sc., M.Tech., Ph.D.  
 Dean Academics, St. Joseph's College of Engineering

**Convenor**  
**Dr. T.V. Narmadha** M.E., Ph.D.  
 Professor & Head - Lab Affairs  
**SBC Advisor**  
**Dr. Jayarama Pradeep** M.E., Ph.D.  
 Professor & Head - Staff Affairs  
**Staff Coordinators**  
**Mr. R. Sreekanth** M.E., Ph.D.  
 Assistant Professor

**Student Coordinators**  
 IEEE TEAM

PIC: IEEE event poster

IEEE St. Joseph's College of Engineering Group organized "A Webinar Session", which was presented by Ms. A K Deepa. On the topic of art of being a professional. Mr. Jaison Alexander welcomed the speaker with a citation note. The event covered crucial ideas that contribute directly to helping the students understand the importance of setting a goal and most importantly following through the plan set forth to reach that goal. It is without an inch of doubt that the students greatly benefited from the wisdom that was imparted from the speaker. It also pushed the students to take action towards their dreams and goals and bring whatever was planned by them to fruition in the near future. Overall the session was useful for all the participants. The vote of thanks was delivered by Mr. Alex for the wonderful session.

11.

The College, 119-D-11  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 (An Autonomous Institution)  
 St. Joseph's Group of Institutions  
 Jeppiaar Educational Trust  
 OMR, Chennai - 119

29

IEEE

On Behalf of IEEE Day Celebration  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
 PRESENTS- AN ONLINE WEBINAR ON

Opportunities and Benefits of IEEE way of life

**Dr.S.Harivardhagini**  
 Professor-CVR College of Engineering,Hyderabad  
 Vice Chair-WIE AG-IEEE,Hyderabad Section

Online  
**WEBINAR**  
 DATE:10/10/2022  
 TIME: 12.15 PM -01.15 PM

IEEE SJCE SBC

PIC: IEEE event poster

IEEE St. Joseph's College of Engineering Group organized "A Webinar Session", which was presented by professor "Dr.S. Harivardhagini". On the topic of "The opportunities and Benefits of IEEE way of life". Ms.M.J. Jayavarshini welcomed the speaker with a citation note. She initiated her talk about the opportunities and benefits in an interactive manner. She also cleared doubts asked by our participants. Overall, it was an informative session for all the participants. A well-versed knowledge about carrier and future opportunities of IEEE was explained. The vote of thanks was delivered by Ms.M.R. Srenithy for the wonderful session.

12.

The College, 119-D-11  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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 OMR, Chennai - 119

29

ARHA  
 NEA  
 A+  
 nirf  
 Cambridge

IEEE

DEPARTMENT OF  
**ELECTRICAL AND ELECTRONICS ENGINEERING**  
 IEEE Women in Engineering Affinity Group  
 presents

**LOGOS FORUM**  
 An Online Logo Designing Competition

Deadline:  
 9th October

Submission form:<http://surl.li/dfkue>  
 Merit E-Certificates will be provided to the winners  
 E-Certificates will be provided to all the participants

Chief Patron  
 Dr. B. Balaji Manoharan

Patrons  
 Mrs. S. Deepa Priya  
 Dr. Vaddi Seshagiri Rao  
 Dr. A. Chandra Sekar  
 Dr. V. Vallinayagam

Convenor  
 Dr. T.V. Narmadha

SBC Advisor  
 Dr. Jayarama Pradeep

Staff Coordinator  
 Mr. R. Sreekanth

Student Coordinators  
 Abinayaa Sri T | Jamuna U | Christal Peeris R | Kavitha P | Ramya R | Deepika U | Dharami V

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 92401 04881 / +91 92401 04882

The "Logos forum" is a online logo designing event conducted by IEEE SJCE SBC on 9<sup>th</sup>October 2022 on behalf of IEEE day 2022. A total of 20 Participants participated in the event. The students were asked to design a logo for the IEEE day 2022. The event started exploring the hidden talent of our Students and they were honoured with e-certificates for their outstanding contributions during the Event.

PIC: IEEE event poster

13.



PIC: IEEE event poster

The “Shutterbug” is a online photo contest event conducted by IEEE SJCE SBC on 9<sup>th</sup>October 2022 on behalf of IEEE day 2022. A total of 25 Participants participated in the event. The students were asked to submit their creative photographs .this event was conducted on behalf of the IEEE day 2022. The event started exploring the hidden talent of our Students and they were honoured with e-certificates for their outstanding contributions during the Event.

14.

St. JOSEPH'S COLLEGE OF ENGINEERING  
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St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
QMR, Chennai - 119

ARSA, NBA, NIF, Cambridge

DEPARTMENT OF  
ELECTRICAL AND ELECTRONICS ENGINEERING

On behalf of IEEE day  
presents

**My IEEE Journey**  
*Mr. Kumaran M S*

Alumni 2017 - 2021 batch  
Grad student,  
Colorado State University

Date : 09.10.2022  
Time : 08.00 pm

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**

Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions	Dr. V. Vallinayagam M.Phil., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions	Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering
Dr. Vaddi Seshagiri Rao M.A., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering	Dr. C. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

**Convenor**  
Dr. T.V. Narmadha M.A., Ph.D.  
Professor & Head - Lab Affairs

**SBC Advisor**  
Dr. Jayarama Pradeep M.A., Ph.D.  
Professor & Head - Staff Affairs

**Staff Coordinators**  
Mr. R. Sreekanth M.A., Ph.D.  
Assistant Professor

**Student Coordinators**  
IEEE TEAM

PIC: IEEE event poster

IEEE St. Joseph's College of Engineering Group organized "A Webinar Session", which was presented by one of our alumni **Mr. M.S Kumaran**. On the topic of his own IEEE journey from his college life in "St. Joseph" Mr. Aashik and Ms. Udhayaraga welcomed the speaker with a citation note. He initiated his talk about his college life with a fun and interactive manner. Then he advised his beloved juniors about carrier guidelines. He also cleared doubts asked by our participants. Overall, it was an informative session for all the participants. A well-versed knowledge about carrier and future opportunities was explained. The vote of thanks was delivered by Mr. Aashik and Ms. Udhayaraga for the wonderful session.



15.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
OMR, Chennai - 119.  
COUNSELLING CODE:1317

ARIIA  
NEA  
NIF  
Cambridge

IEEE

Department of  
Electrical and Electronics Engineering  
in association with  
**IEEE POWER ELECTRONICS SOCIETY**  
Presents  
**BOMB SQUAD**  
ON THE OCCASION OF IEEE DAY  
1.40-2.50 PM  
07-10-2022  
A team based Offline game, where participants have to figure out the bomb locations from the clues given  
VENUE : SMART ROOM  
E-Certificates will be provided to all the participants

TO REGISTER SCAN THE QR BELOW

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

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Dean/Department, St. Joseph's College of Engineering  
Dr. B. V. Vallinayagam Ph.D., M.P.  
Dean/Students Affairs, St. Joseph's College of Engineering

**Advisor**  
Dr. T.V. Narayanaiah M.T., Ph.D.  
Professor & Head - Lab Affairs

**SIC Advisor**  
Dr. Jayarama Prasad M.E., Ph.D.  
Professor & Head - SIC Affairs

**Staff Coordinator**  
Mr. S. Srinivasan M.A., M.Tech.  
Assistant Professor

**Student Coordinators**  
ELANCHEZHIVAN R J | POOJASREE K | DHARANI V | ABIKITHA R | NANDI YARDHAN REDDY R | NIVAS M

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PIC: IEEE event poster

The IEEE Power Electronics Society of St. Joseph's College of Engineering Conducted “Bomb squad”, a nontechnical team based guessing game on Oct 7<sup>th</sup>, 2022 on behalf of the IEEE Day celebration. This event consists of teams of five members. Each member was given 5 clues about possible bomb locations and the participants need to interact and discuss with each other to figure out the locations. This event helped in networking of participants since the team members were chosen randomly on the location. The event took place in the smart room of EEE department, from 01.40 Pm to 02.50Pm. E certificates were also given to all the participants as a part of motivation

16.

PIC: IEEE event poster

The IEEE Power Electronics Society of St. Joseph's College of Engineering Conducted “Artlingg”, a poster designing contest on Oct 13<sup>th</sup>, 2022 on behalf of the IEEE Day celebration. This event consists of teams of two members. An introductory session on Canva and other photo editing tools were given to the participants. Later each team received a separate Canva link to create the poster on the Theme of IEEE Day. This event was helpful for the participants to gain more experience in Canva designing, this event was exclusively planned for current second years to enhance them for upcoming events. E certificates were also given to all the participants as a part of motivation

17.

PIC: IEEE event poster

IEEE SJCE SBC organized a intimate plantit under IEEE Robotics and Automation Society for college students to build their practical knowledge in the field of Robotics. The event was conducted on google form. There were about 25 students participated in it and got benefited. The event was useful to the participants in knowing about words related to Robots through logo picture. As we naturally remember visual cues better than words, the participants would have gained more knowledge. Merit certificates are distributed to the top 3 winners and E-certificates are provided for all the participants. Student Coordinators Abina S, Abinaya M, keerthana S, Sunitha K, Nithin Joel, Gokul kumar M, Aparnaa M and Viknesh.G,S coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor.

18.

PIC: IEEE event poster

The IEEE Power Electronics Society of St. Joseph's College of Engineering Conducted a quiz named “Quizzly bears”, on Oct 8<sup>th</sup>, 2022 on the occasion of IEEE DAY. The topics for the quiz were Electric Vehicle, High voltage applications and Solar. 20 participants have attended the quiz. The concepts were really encouraging and helped students. E certificates were sent to all the participants and best responses were awarded appreciation certificates.

19.

PIC: IEEE event poster

The IEEE SJCE SB Maanavar Mandram of St Joseph’s College of Engineering conducted an online poem event “Kavi Kalai’22”. The topic of the event is Iyarkai. Over 20 participants attended the event and all of them were provided with a participation E-Certificate. The winners were awarded with the winners Certificate. The student coordinators for this event were Mani Sha. N, Jayashruthi R.V, AkshayaKrishnen, Amirtha Varshini. M and Godson S V Noble.



20.

St. JOSEPH'S COLLEGE OF ENGINEERING  
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St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
OMR, Chennai - 119  
Counselling Code :1317

IEEE திணை குழுவினரின் சார்பாக  
மின் மற்றும் மின்னணு பொறியியல் துறை  
உடன் இணைந்து  
IEEE SJCE SB மாணவர் குழுவும்  
பெருமைபட்ட வழங்கும்  
**கலை களஞ்சியம்**  
— ஒரு வினாடி வினா நிகழ்வு —

தேதி : 07.10.2022 | நேரம் : 5:00 pm - 6:00 pm  
தலைப்பு : தமிழ் இலக்கியம்  
இணைப்பு: <https://bit.ly/கலைகளஞ்சியம்>  
— பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் —

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com.  
Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar  
Executive Director, St. Joseph's Group of Institutions

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Dean (Research), St. Joseph's College of Engineering  
Dr. V. Vallinayagam M.Sc., Ph.D.  
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Professor & Head - LAB Affairs

**SBC Advisor**  
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Professor & Head - Staff Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.L., Ph.D.  
Assistant Professor

**Student Coordinators**  
Mani Sha N | Jayasruthi R V | AkshayaKrishnen | Amirtha Varshini M | Godson S V Noble

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PIC: IEEE event poster

The IEEE SJCE SB Maanavar Mandram of St Joseph's College of Engineering conducted an online quiz event "Kalai Kalanjyam". The topic of the event is Thamizhin Inimaiyum Valamaiyum. Over 25 participants attended the event and all of them were provided with a participation E-Certificate. The winners were awarded with the winners The student coordinators for this event were Mani Sha. N, Jayashruthi R.V, AkshayaKrishnen, Amirtha Varshini. M and Godson S V Noble.

21.

St. JOSEPH'S COLLEGE OF ENGINEERING  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
OMR, Chennai - 119  
Counselling Code : 1317

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**ANZURES SOUL**  
A Flummoxing Event

WINNERS WILL BE PROVIDED A HARDCOPY CERTIFICATE

1:00pm-3:00pm

rd  
**FOR 3 YEARS**  
on 29<sup>th</sup> SEPTEMBER 2022

**REGISTER HERE:**  
<https://forms.gle/SbK6Ww1kveqJqT87>

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

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Professor & Head - LAB Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.L., Ph.D.  
Assistant Professor

**Student Coordinators**  
HARISHKUMAR, K THEJA THANUJ, S.R DHYANESH, P MUKUNTHASR, R AMIRTHA VARSHINI, M  
RANJANIS ABINAYA PRIYA, R.A VISHNU PRIYA, S HARRY JANKINS, KAVITHA, P SIVA MALAVAN, S RAMYA, R

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882

PIC: SAC event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) social awareness organized an art event 'ANZURES SOUL' on 29th September 2022. This exclusive event started at 1.00 pm with all the members of our club. The event started exploring the hidden talent of our Students and they were honoured with certificates for their outstanding contributions during the Event. The event continued with the enthusiasm of our students. The program ended with a photo session.

22.



PIC: SAC event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) social awareness organized an art event “ZEST WAR” on 20<sup>th</sup> October 2022. This exclusive event started at 10.200 pm with all the members of our club. The event started exploring the hidden talent of our Students and they were honoured with certificates for their outstanding contributions during the Event. The event continued with the enthusiasm of our students. The program ended with a photo session.

23.

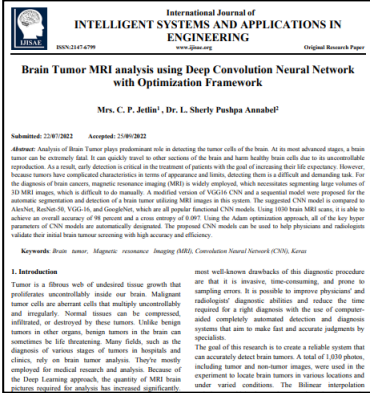



PIC: IEEE event poster

IEEE IAS SJCE conducted a debate event “HAZZLE”. In this event, about 20 participated to witness the offline debate event. E-Certificates were distributed to the students who had participated in the event. This event indeed helped the participants to overcome the stage fear and express their thoughts on the given topic. The winner was Jamuna.U and the runner was Aruthra.S. Student Coordinators were the IAS team.





# DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">  </div> <p style="text-align: center;"><b>Co-author: L. Sherly Pushpa Annabel published a paper in Scopus Indexed Journal</b></p>	<p style="text-align: center;"><b>Staff Publication</b></p> <p>C. P. Jetlin, L. Sherly Pushpa Annabel, “Brain Tumor MRI analysis using Deep Convolution Neural Network with Optimization Framework”, International Journal of Intelligent Systems And Applications In Engineering, Vol. 10, No. 3, pp. 52–56, ISSN:2147-679921, Sep 2022. <b>(Indexed in Scopus)</b>.</p> <p><b>Abstract:</b> Analysis of Brain Tumor plays predominant role in detecting the tumor cells of the brain. At its most advanced stages, a brain tumor can be extremely fatal. It can quickly travel to other sections of the brain and harm healthy brain cells due to its uncontrollable reproduction. As a result, early detection is critical in the treatment of patients with the goal of increasing their life expectancy. However, because tumors have complicated characteristics in terms of appearance and limits, detecting them is a difficult and demanding task. For the diagnosis of brain cancers, magnetic resonance imaging (MRI) is widely employed, which necessitates segmenting large volumes of 3D MRI images, which is difficult to do manually. A modified version of VGG16 CNN and a sequential model were proposed for the automatic segmentation and detection of a brain tumor utilizing MRI images in this system. The suggested CNN model is compared to AlexNet, ResNet-50, VGG-16, and GoogleNet, which are all popular functional CNN models. Using 1030 brain MRI scans, it is able to achieve an overall accuracy of 98 percent and a cross entropy of 0.097. Using the Adam optimization approach, all of the key hyper parameters of CNN models are automatically designated. The proposed CNN models can be used to help physicians and radiologists validate their initial brain tumour screening with high accuracy and efficiency.</p>
2	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">  </div> <p style="text-align: center;"><b>Dr A Tamizhselvi published a patent</b></p>	<p style="text-align: center;"><b>Patent</b></p> <p><b>Title of the invention :</b> Designing a Smart Firewall System to Alert the Antivirus Application Installed on a Gadget to Protect Against the Hazards of Computer Virus</p> <p><b>Name of Inventor :</b></p> <ol style="list-style-type: none"> <li>1. Dr. Amit Sharma</li> <li>2. Kalpana Devi S</li> <li>3. K.Pratyusha</li> <li><b>4. Dr A Tamizhselvi</b></li> <li>5. Dr Shueb Ali Khan</li> <li>6. Rishi Kumar Sharma</li> <li>7. Dr. Naveen Kumar CG</li> <li>8. Dr B Gayathri</li> <li>9. Udayakumar N</li> <li>10. Dr T Ravichandran</li> <li>11. Dr.A.Sasi Kumar</li> <li><b>12. ohd Esa</b></li> </ol> <p><b>Patent Number:</b> 202211053206  <b>Date of filing of Application :</b> 17/09/2022  <b>Publication Date:</b> 07/10/2022</p>

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail						
1	<b>Publication</b>	S.No	Faculty Name	Date	Title	Name of the conference	Type	Link
		1.	Mr. Sankaran D	18-10-2022	Skin Melanoma Segmentation using VGG-UNet with Adam/SGD Optimizer: A Study	2022 Third International Conference on Intelligent Computing Instrumentation and Control Technologies (ICICICT)	IEEE Conference	<a href="https://ieeexplore.ieee.org/document/9917848">https://ieeexplore.ieee.org/document/9917848</a>
		2.	Mrs. Angel Sujitha	18-10-2022	Glioma/Glioblastoma Detection in Brain MRI using Pre-trained Deep-Learning Scheme	2022 Third International Conference on Intelligent Computing Instrumentation and Control Technologies (ICICICT)	IEEE Conference	<a href="https://ieeexplore.ieee.org/abstract/document/9917904">https://ieeexplore.ieee.org/abstract/document/9917904</a>

# DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	<p><b>Guest Lecture for II year Students:</b></p> 	<p>➤ Guest lecture on “Digital Marketing” has been organized for II-year students on 18.10.2022. The importance of Digital Marketing has been explained to the students.</p>
2	<p><b>Guest Lecture for III year Students:</b></p> 	<p>➤ Guest lecture on “Digital Marketing” has been organized for III year students on 19.10.2022. The importance of Digital Marketing has been explained to the students.</p>

3

**Elite**

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**GANESH M**  
for successfully completing the course

**Laser Based Manufacturing**

with a consolidated score of **84** %

Online Assignments	23.75/25	Proctored Exam	60/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **340**

Aug-Oct 2022  
(8 week course)

  
**Prof. T. V. Bharat**  
Head, Centre for Educational Technology  
NPTEL Coordinator, IIT Guwahati


 Indian Institute of Technology Guwahati



Roll No: NPTEL22ME92564471429      To validate the certificate       No. of credits recommended: 2 or 3

- Dr.N.Arunkumar completed NPTEL Online Certification course on “LASER BASED MANUFACTURING” During the period of Aug to OCT 2022.
- Dr.M.Arun completed NPTEL Online Certification course on “LASER BASED MANUFACTURING” During the period of Aug to OCT 2022
- Mr.M.Ganesh completed NPTEL Online Certification course on “LASER BASED MANUFACTURING” During the period of Aug to OCT 2022

## DEPARTMENT OF MATHEMATICS

Events	Remarks																																																						
<b>FDP/Workshop/Conference</b>																																																							
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<b>Awards/Prize won by staff</b>	Nine Faculties written online exam in NPTEL -AICTE , Program conducted by IIT Madaras. Two of them received ELITE Silver and remaining persons received ELITE Certificate. Dr.G. Purushothaman is topper in the course all over India.																																																						
<b>Publications(only published) details</b>	1. K.S.Sudhakhar , Novel Therapeutic Activity and its Chemical Constituents of Alocasia Species: A Review, YMER, Vol 21, Issue No. 10, Pp No. 634-642, October 2022, SCOPUS, DOI: <a href="http://ymerdigital.com/uploads/YMER211082.pdf">http://ymerdigital.com/uploads/YMER211082.pdf</a>																																																						



## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	Collabarative Quality initiatives with other institutions	<p><b><u>AICTE-Swayam Translation</u></b></p> <p>1. Dr. S.M. Prakash acted as NPTEL translator for the course “Chemical Reaction Engineering - I” offered by AICTE-SWAYAM portal and completed the work on 30.10.22 .</p>
4	FDP/Workshop/Conference	<p>1. Dr. N.R. Rajagopalan, Dr. S.M. Prakash, Dr. S. Rama, Dr. K. Jayamoorthy, Dr. P. Saravanan, Dr. N. Punitha, Dr. V. Swarnalatha, attended International webinar on “Advanced Materials for Armour Applications” conducted by “Bharath Institute of Engineering and Technology, Chennai” on 01.10.22</p> <p>2. Dr. P. Krishnan attended 7 days “International Faculty Development Program on Aerospace” conducted by “SRM University, Kattankolathur, Chennai.” held from 15.10.22 to 21.10.22.</p> <p>3. Dr. S.M. Prakash, attended International webinar on “Effective Teaching: Insights from Education Psychology” conducted by “Bharath Institute of Engineering and Technology, Chennai” on 15.10.22</p> <p>4. Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Dr. S.M. Prakash, Dr. B. Subash, Dr. S. Rama, Dr. P. Saravanan, Ms. J. Sharmila, Ms. S. Savitha, Dr. V. Swarnalatha, Dr. K. Jayamoorthy, Dr. N. Puitha, attended 5 days “International online Faculty Development Program on Quality of Teaching in Higher Educational Institutions” conducted by “Easwari Engineering College, Chennai” held from 17.10.22 to 21.10.22.</p> <p>5. Dr. S. Suresh, Dr. B. Subash, Dr. S.M. Prakash, Dr. S. Rama, Dr. N. Punitha, Dr. V. Swarnalatha, Ms. J. Sharmila, Ms. S. Savitha attended International webinar on “Chemical Science for Sustainability” conducted by “Gonzaga College of Arts and Science for Women, Krishnagiri” on 19.10.22</p> <p>6. Dr. S. Kiruba, Dr. S. Rama attended National online FDP on “Current trends in Materials applications” conducted by “Malla Reddy Institute of Engineering and Technology, Secunderabad” held from 27.10.22 to 28.10.22</p>
9	Awards/Prize won by students / Staff	<p><b><u>Best Paper award:</u></b></p> <p>1. Ms. A. Mahalakshmi is awarded with best paper presentation award for her paper titled “Anticancer applications of cadmium selenium quantum dots synthesized using aqueous extract of waste orange peel” presented in “3rd International Conference on Applications of Natural compounds, Nanomaterials, Oncolytics in Cancer Biology and Biotechnology (ICANNOCB-22)”, conducted by “B.S.Abdur Rahman Cresent Institute of</p>

		Science & Technology ,Chennai” between 27.10.22 and 28.10.22.
11	<b>Publications(only published) details</b>	<p><b><u>Patent Publication</u></b></p> <p>1. Dr. P. Saravanan, Dr. A. Uma Devi published a patent titled “Removal of dyes from wastewater using nonconventional biomass based sorbents” in the journal issue 40/2022 dated 07.10.22.</p> <p>2. Dr. V. Nandini Devi, Dr. V. Swarnalatha, Dr. N.R. Rajagopalan, Ms. J. Sharmila published a patent titled “: Hydro- chemical assessment of environmental status of surface and ground water in mine areas” in the journal issue 41/2022 dated 14.10.22.</p> <p>3. Dr. N. Punitha, Dr. A. Arulmozhi, Dr. S. Rama published a patent titled “DI With Nanotechnology approach to the effect of topical creams for treating blood cancer nodes” in the journal issue 41/2022 dated 14.10.22.</p>
13	<b>Other activities(if any)</b>	<p>Department of Science conducted the following online events for school students:</p> <ol style="list-style-type: none"> <li>1) Brilliant brushes – 11.10.22</li> <li>2) Bug of debug – 12.10.22</li> <li>3) Brain teasers – 13.10.22</li> <li>4) Treasure Hunt – 14.10.22</li> <li>5) Speak with Science – 22.10.22</li> <li>6) Chemistry at home – 21.10.22</li> </ol>

## DEPARTMENT OF MBA

### EVENTS ORGANISED ( FENESTRA 2022)



FENESTRA 2022 is the National level symposium for management students organized by Department of MBA, St Joseph's College of Engineering on October 8<sup>th</sup> 2022. The symposium provided a platform to many management students to showcase their skill and prove their managerial skills. Around 50 teams from 20 colleges participated in FENESTRA 2K22. This gave our students an experience to conduct events, coordinate as a team and work cordially with each other. Management games like Best managers, Adzap, Business quiz, OMG gave students a platform to showcase their skills. The Faculty coordinators were Dr. Sundari. R and Mr. Surenthran David P. The student coordinators were Ms. Pooja.K, Mr Harsha Vardhan.B, and Mr. Sri Balaji.S.

### VALUE ADDED COURSE:



Department of MBA conducted a value added course on Managerial Communication from 19<sup>th</sup>October to 22<sup>nd</sup>October2022. This course was conducted by Corpversity, which provides world class customized managerial communication programmes that help young adults crack into high quality jobs, placements and higher education opportunities. This course helps students to understand the scope of communication and learn its importance and implication strategies. The objective is to acquaint the students with the basic concepts of communication that is useful in developing skills to become successful managers in their professional career.

Value added course on Managerial  
Communication by Corpversity

### SEMINAR ATTENDED BY FACULTY:



The following faculty members have participated in the International Faculty Development Program on “Quality of Teaching in Higher Educational Institution” organised by Department of Management Studies, Easwari Engineering College, Chennai in association with “Infrastructure University, Kuala Lumpur” from 17.10.2022 to 21.10.2022.

Faculty Members Participated:

1. Dr.Jayasree Krishnan
2. Dr.Jawahar Rani
3. Dr.S.Ajit
4. Dr.S.P.Karuppaiah
5. Dr.M.Manikandan



## PATENTS APPLIED / PUBLISHED / GRANTED:

(12) PATENT APPLICATION PUBLICATION (31) Application No:202241030693 A  
 (10) INDIA (43) Publication Date : 23/07/2022  
 (22) Date of filing of Application : 11/07/2022

(54) Title of the invention: **AN INTEGRATED HUMAN-AI PARADIGM THROUGH ORGANISATIONAL AGILITY AND SUSTAINABLE PERFORMANCE.**

(71) Name of Applicant: **Dr. S. Ajith**  
 (72) Name of Inventor: **Dr. S. Ajith**  
 (73) Name of Applicant: **Dr. S. Ajith**  
 (74) Name of Applicant: **Dr. S. Ajith**  
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 (99) Name of Applicant: **Dr. S. Ajith**  
 (100) Name of Applicant: **Dr. S. Ajith**

(57) Abstract: **Confronted are facing significant challenges related to students' interpersonalization, regulatory restrictions and hence competition, especially during the COVID-19 crisis. This climate requires change and to make a positive impact and effectively in this article, we identified the importance of culture only on digital marketing to business success (482) practices. This is a process 4 Framework integrating artificial intelligence, and machine learning to improve customer loyalty, thus make robust responses to target our customer's performance.**

The Patent Office Journal No. 29/2022 Dated 23/07/2022 45924

(12) PATENT APPLICATION PUBLICATION (31) Application No:202241080783 A  
 (10) INDIA (43) Publication Date : 28/10/2022  
 (22) Date of filing of Application : 28/10/2022

(54) Title of the invention: **AN OVERVIEW OF EXPLORING THE POTENTIAL OF ARTIFICIAL INTELLIGENCE APPROACHES ON DIGITAL MARKETING**

(71) Name of Applicant: **Dr. S. Ajith**  
 (72) Name of Inventor: **Dr. S. Ajith**  
 (73) Name of Applicant: **Dr. S. Ajith**  
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 (100) Name of Applicant: **Dr. S. Ajith**

(57) Abstract: **CONFRONTED ARE FACING SIGNIFICANT CHALLENGES RELATED TO STUDENTS' INTERPERSONALIZATION, REGULATORY RESTRICTIONS AND HENCE COMPETITION, ESPECIALLY DURING THE COVID-19 CRISIS. THIS CLIMATE REQUIRES CHANGE AND TO MAKE A POSITIVE IMPACT AND EFFECTIVELY IN THIS ARTICLE, WE IDENTIFIED THE IMPORTANCE OF CULTURE ONLY ON DIGITAL MARKETING TO BUSINESS SUCCESS (482) PRACTICES. THIS IS A PROCESS 4 FRAMEWORK INTEGRATING ARTIFICIAL INTELLIGENCE, AND MACHINE LEARNING TO IMPROVE CUSTOMER LOYALTY, THUS MAKE ROBUST RESPONSES TO TARGET OUR CUSTOMER'S PERFORMANCE.**

The Patent Office Journal No. 43/2022 Dated 28/10/2022 68974

## FACULTY CERTIFICATION COURSES:

6. Mr.S.Arvinth
7. Dr.R.Karthick
8. Dr.K.Sampath
9. Dr.Angelin S.Kiruba
10. Dr.S.Poovizhi
11. Dr.U.Madhanrajan
12. Dr.N.Madhumithaa
13. Dr.R. Monisha
14. Dr.R.Bharathi
15. Dr.L. Rajeshkumar
16. Dr.A. Sathish

**Patent Published:**  
**Title of the Invention:** An Integrated Human – AI paradigm through organisational agility and sustainable performance.  
**Inventor 04:** Dr.K.Sampath

**Patent Published:**  
**Title of the Invention:** An Overview of exploring the potential of artificial intelligence approaches on Digital Marketing.  
**Inventors:**

1. Dr.Jayasree Krishnan
2. Dr.Jawahar Rani K
3. Dr. Sundari R
4. Dr. Ajit S
5. Dr.S.P.Karuppaiah
6. Mr.Surenthran David
7. Ms. Jebakerupa Roslin

**Elite**

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**LEKSHMI R S**  
for successfully completing the course

**Strategic Management for Competitive Advantage**

with a consolidated score of **67** %

Online Assignments	20/25	Proctored Exam	46.5/75
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Total number of candidates certified in this course: **227**

Jul-Oct 2022  
(12 week course)

Indian Institute of Technology Kharagpur

Prof. Debjani Chakrabarti  
Coordinator NPTEL  
IIT Kharagpur

swayam

Roll No: NPTEL22MGB8564470976 To validate the certificate No. of credits recommended: 3 or 4

Dr.Lekshmi R S successfully completed the 12 weeks NPTEL online certification course on “Strategic Management for Competitive Advantage” from July – October 2022.

## FACULTY AS RESOURCE PERSONS:

**SPEAKERS AT SRM, RAMAPURAM CAMPUS, CHENNAI.**



**Dr. S. AJIT**

Dr. S. Ajit BE, MBA, M. Phil., Ph.D. has 20 years of teaching experience, published many articles in international journals, had been a reviewer for many international journals, had been a resource person for FDP in reputed colleges across India. Has published two fiction books in Amazon Kindle.



**Mr. P. SURENTHRAN DAVID**

Mr.P.Surenthran David, Assistant Professor in the Department of MBA, St. Joseph's College of Engineering. He has teaching experience of nine years and industry experience of six years. He has worked as a programmer Analyst in Cognizant Technology Solutions and as a Business Development Executive in L&T Infotech. He has completed his MBA from SRM School of Management with specialization in Finance and Marketing. His interests are Security Analysis and Portfolio Management and Business Analytics.

**WORKSHOP SCHEDULE**

DAY	DATE	INAUGURAL	FACULTY
DAY 1 (MONDAY)	19/09/2022	SPEX INTRODUCTION, DATA ENTRY, HYPOTHESIS FRAMING	Dr. S. AJIT
DAY 2 (TUESDAY)	20/09/2022	CHI-SQUARE TEST AND ALL T TEST	Mr. P. SURENTHRAN DAVID
DAY 3 (WEDNESDAY)	21/09/2022	CORRELATION AND REGRESSION	Mr. P. SURENTHRAN DAVID
DAY 4 (THURSDAY)	22/09/2022	FACTOR ANALYSIS AND CLUSTER ANALYSIS	Dr. S. AJIT
DAY 5 (FRIDAY)	23/09/2022	SEM MODEL TESTING USING AMOS	Dr. S. AJIT

**Dr. C. Sundar**  
Dean  
(Management Studies)

**Dr. R. Arulmoli**  
HOD-MBA

**Conveners**  
Dr. S. Lakshmi  
Dr. P. Lekha

**Contact the Organizers**  
 Dr. Lakshmi S, Asst Professor, Finance / +91 99620 16201  
 Dr. P. Lekha, Asst Professor, Marketing / +91 98459 26736

**Any queries can be made at**  
 lakshmi@srmist.edu.in  
 lekha@srmist.edu.in

srmmgmtstudies
fsh.srmmp.edu.in/school-of-management
FOR ADMISSION ENQUIRIES 1800 182 1525

Dr.S.Ajit and Mr.P.Surenthran David acted as Resource Persons for Workshop on “Basic Research Tools” from 19 & 23rd September, 2022 organised by College of Management, SRM Institute of Science and Technology, Ramapuram, Chennai.



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## 1. Events Organized:

The following events have been organized and conducted in the month of September and October 2022

### i)IETE Event: X-ByteZ



The poster features the St. Joseph's College of Engineering logo on the left and a 28th anniversary badge on the right. The central text reads: 'You Choose, We Do It', 'St. JOSEPH'S COLLEGE OF ENGINEERING (An Autonomous Institution)', 'St. Joseph's Group of Institutions', 'Jeppiaar Educational Trust', 'OMR, CHENNAI-119', and '★ Since 1994 ★'. Below this is a green shield with '08 OCT 2022', the IETE logo, and a QR code with the text 'SCAN TO REGISTER:'. The main title is 'DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING in association with IETE STUDENTS' FORUM-ISF PRESENTS X-BYTEZ'. At the bottom, it provides the link 'LINK: [HTTPS://FORMS.GLE/ECATHJ9JFY2LTMFK9](https://forms.gle/ECATHJ9JFY2LTMFK9)', the venue 'ECE DEPARTMENT', and the time 'TIME ~ 9:30 AM'.

### Report

The Department of Electronics and Communication Engineering, St. Joseph's College of Engineering in association with the IETE Student Forum ISF conducted the event "X-ByteZ" on 8th of October 2022. X-ByteZ is a quiz-like event based on Digital Electronics and VLSI conducted as part of our national level symposium.

A total of 25 teams participated from various colleges in and around Chennai. Each team had 1-3 members. The event was conducted in 2 rounds.

The first round consisted of 20 MCQ questions and 5 fill in the blank type questions. The participants were given an ample time of 45 minutes to complete the first round. Each question was awarded 1 point

The top 6 teams were shortlisted for the second round (final round). This round consisted of 4 Digital design question out of which 2 had to be answered. The participants, after answering the questions, were given laptops to simulate the circuits that they designed. The teams had 1 hour to complete the same. Each question was awarded 15 points.

The participants interacted well with the organizers during the event. They showed their creative and innovative ways to answer.

Out of the 6 finalists, 3 teams were selected as the winners based on the sum of their first and second round scores.

The Winners of the event were presented with

Certificates of Appreciation and cash prizes.  
 A cash prize of Rs 1500/- was awarded to the 1st place team,  
 A cash prize of Rs 1000/- was awarded to the 2nd place team and  
 A cash prize of Rs 500/- was awarded to the 3rd place team.

**ii)IETE Event:TechnoFest**

You Choose 'We Do 'It

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 (An Autonomous Institution)  
 ST. JOSEPH'S GROUP OF INSTITUTIONS  
 JEPPIAAR EDUCATIONAL TRUST  
 OMR, CHENNAI - 600119  
 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
 IN ASSOCIATION WITH

**IETE STUDENTS' FORUM- ISF**  
 (INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS)

# TECHNOFEST

"A Mini Project Competition"

VENUE : ECE LAB  
 DATE : 17<sup>th</sup> OCT'22  
 TIME - 9:40 TO 11 AM

**CHIEF PATRON**  
**Dr. B. BABU MANOHARAN** M.A., M.B.A, Ph.D  
 CHAIRMAN, St. JOSEPH'S GROUP OF INSTITUTIONS

**PATRONS**

<b>Mrs. S. Jessie Priya</b> M.Com <i>Managing Director, St. Joseph's Group of Institutions</i>	<b>Mr. B. Shashi Sekar</b> M.sc <i>Executive Director, St. Joseph's Group of Institutions</i>	
<b>Dr. Vaddi Seshagiri Rao</b> M.E., M.B.A., Ph.D <i>Principal, St. Joseph's College of Engineering</i>		
<b>Dr. V. Vallinayagam</b> M.Sc, M.Phil, Ph.D <i>Dean (Student Affairs)</i>	<b>Dr. A. Chandra Sekar</b> M.E, Ph.D <i>Dean (Research)</i>	<b>Dr. G. Sreekumar</b> M.Sc, M.Tech, Ph.D <i>Dean (Academics)</i>

<b>CONVENORS</b>	<b>IETE CO ORDINATORS</b>	<b>ISF OFFICE BEARERS</b>
<b>Dr. B. Victoria Jancee</b> M.E, Ph.D <i>HOD-Staff Affairs</i> <b>Dr. S. Aghalya</b> M.E, Ph.D <i>HOD-Student Affairs</i> <b>Dr. P. Ezhilarasi</b> M.E, Ph.D <i>HOD-Lab Affairs</i>	<b>Dr. Shirley Selvan</b> M.E, Ph.D <i>Associate Professor</i> <b>Dr. D. Lakshmi</b> M.E, Ph.D <i>Associate Professor</i>	<b>Anand E</b> - Chairman <b>Rubeshwaran A</b> - Vice Chairman <b>Sameeksha S A</b> - Secretary <b>Sai Priyadarshini J</b> - Treasurer

The Department of Electronics and Communication Engineering, St. Joseph's College of Engineering in association with the IETE Student Forum ISF conducted the event "TECHNOFEST" on 17th of October 2022. TECHNOFEST is a mini project event which was conducted for both IETE and Non IETE members.

A total of 10 teams from all years had participated. The event was conducted for about two hours, from 10:00 am to 12:00 pm.

Dr. I. Johnsi Stella, Mrs. P. Elaveni and Dr. P. Latha from the department of Electronics and Communication Engineering were the chief judges of the event. The participants were highly enthusiastic and confident in explaining their project work and demo.

Participants presented their models and ideas on various topics such as Signal/image processing, Human brain interface, Embedded systems, IoT based applications, Biomedical engineering applications and Wireless sensor-based projects.

Each team was given a time limit of 5 to 10 minutes to give their presentation. The judges had evaluated the projects on a 10-point scale.

The Winners and runners of the event were presented with Certificates of Appreciation and cash prizes.

A cash prize of Rs 750/- was awarded to the winners,

A cash prize of Rs 500/- was awarded to the first runner-up and,

A cash prize of Rs 400/- was awarded to the second runner-up.

**iii)IEEE Event :**

**The members of the Institute of Electrical and Electronics Engineers Student Chapter (IEEE) from St. Joseph's College of Engineering was successful in conducting an event in the National Level Technical Symposium 'JETSIGNUM 2K22' on behalf of the ECE department.**



**iv)IEEE Event : ENROLLMENT DRIVE 2022-2023**

**Report**

The event was held to discover young, talented and aspiring minds to cope with the change and overcome the current and future challenges of our industries and beyond. Participants were invited from leading technological and management institutes. It was open to all colleges in and around Tamil Nadu. The event was held on October 8th 2022, within the college premises. Totally 170 students from various colleges registered for the event in which around 150 students participated. There were around 30 teams, each team comprising of 3 to 4 members.

The event CODEX was held in two rounds. The prelims round had a set of coding questions with medium level of difficulty. Around 10 teams were qualified for the finale. The final round was a bit harder and all the participants cracked them enthusiastically. Two of the faculty members were honoured as the judge. The fastest coders were declared the winners by the judge.

The Volunteers from the IEEE Student Chapter took over the entire mentoring session with the guidance of the IEEE office bearers. The event was made a grand success with the help of the management, staff members, office bearers and the IEEE Student Chapter volunteers. The winners were consolidated with Amazon vouchers. The first prize was awarded with an amazon voucher of 500 rupees. The second prize was given Amazon voucher of 250 rupees and the third prize was given Amazon voucher of 125 rupees. Merit certificates were awarded to all the winners.

**Report**





**“ENROLLMENT DRIVE 2022-2023”** was organized by the department of ELECTRONICS AND COMMUNICATIONS ENGINEERING in association with **Institute of Electrical and Electronics Engineers (IEEE)**. The drive gave the opportunities of joining the IEEE STUDENT BRANCH CHAPTER which was specially meant for the IInd year students of ECE dept from **St. Joseph’s College of Engineering**.

The total details about IEEE, its societies and its opportunities were explained. The events, webinars, conferences and Hackathons held so far by IEEE were elaborated successfully. The members of the IEEE made sure that the students were aware about the societies in ECE department. Lectures were given on COMMUNICATIONS SOCIETY, ELECTRON DEVICES SOCIETY, BROADCAST TECHNOLOGY SOCIETY, ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, ANTENNA PROPAGATION SOCIETY, INDUSTRIAL ELECTRONICS SOCIETY.

The freshers were given details about the IEEE website, its accessibility, easy approachment of research papers and were provided with the benefits of attending international conferences. Totally more than 130 freshers from the IInd year ECE department of St. Joseph’s College of Engineering participated. The full Enrollment Drive was under the monitor of Dr.Venkatesan.K, the Co-Ordinator of IEEE Student Branch Chapter and was organized by the team of Office bearers.

Small quizzes were also conducted and there was active participation among the students. The newbies were encouraged to join the upcoming events of IEEE STUDENT CHAPTER. The best thing about the event was that more than 80 students showed interest in taking



the IEEE membership.

**V) OPTICA Event: QUAD SQUAD**

**Report**



You Choose, We Do It

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
*(An Autonomous Institution)*  
 St. Joseph's Group of Institutions  
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 CHR, CHENNAI-19

★ Since 1994 ★

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
 in association with  
 OPTICA STUDENT CHAPTER  
 PROUDLY PRESENTS

OPTICA  
 Advancing Optics and Photonics Worldwide

Scan to Register

DATE  
 08th  
 OCTOBER  
 2022

JET SIGNUM  
 2K22

**QUAD SQUAD**

Link - <https://forms.gle/NconqwU29Af49ZVvk9>

A fun filled technical event on behalf of the National Level Smposium “JETSIGNUM” was conducted for the students of Electronics and Communication Engineering on the title “QUAD SQUAD”. It was organized by the Department of ECE in association with the OPTICA student chapter on 08.10.2022 . The event started with a welcome address and the rules and regulations for the event were instructed. Around 80 students i.e 22 teams participated from different colleges and got benefited. There were totally 5 rounds in this event.

The first round was called as the prelims. In this round a technical quiz was conducted where each team was given question paper in two sets, set-A and set-B alternatively. Each team had 30 minutes to complete the paper and submit. Most of the questions were MCQ and others were fill in the blanks. The participants found the questions more innovative and trickier to solve. From this round only 6 teams were selected for the second round. All the 6 teams were present in the next 4 rounds. These rounds were points based and the team with the highest point won the event.

**FIRST ROUND: TRAGEDY REASONING**  
**SECOND ROUND: WHISPER CHALLENGE**  
**THIRD ROUND: HAWKEYE**  
**FOURTH ROUND: GREEN SCREEN**

The team with the highest points overall had won the event. The entire event was monitored by Dr.B.Vasudevan, Co-Ordinator of Optica student chapter. The event was a total success and a great experience to the participants as well as to the organizers. Everyone had lot of fun in the event and learnt something new.

**2. Courses/Workshop Attended by Faculty:**

**The following staff member have completed in the month of October at National Level**

<b>S. No</b>	<b>Name of the Staff</b>	<b>Title of the Course</b>	<b>NPTEL/Coursera/Udemy</b>	<b>Duration</b>	<b>Date of Completion</b>
1.	D.Lakshmi	Mathematical Aspects of Biomedical Electronic System Design	NPTEL – Course by IISc - Bangalore	12 weeks	29.10.22
2.	Mrs.E.Malarvizhi	Powering IoT using ARDUINO RASPBERRY Pi	Madras Institute of Technology , Anna University, Chennai-44	5 Days	19.09.2022 to 23.09.2022
3.	Dr. S.Vinayagapriya	Recent Tools and Technologies for Data Science and Artificial Intelligence	Online	7 Days	19.9.2022 to 26.9.2022
4.	Dr. G. Sivagurunathan	Development of Artificial Intelligence and Data Science in developing Electrical Engineering Application	NIT Warangal, Online	2 Weeks	04-08-22 to 17-08-22
5.	Venkatesan.K	FDP on Amazon Web Services	Online	6 Days	22.08.2022 to 27.08.2022

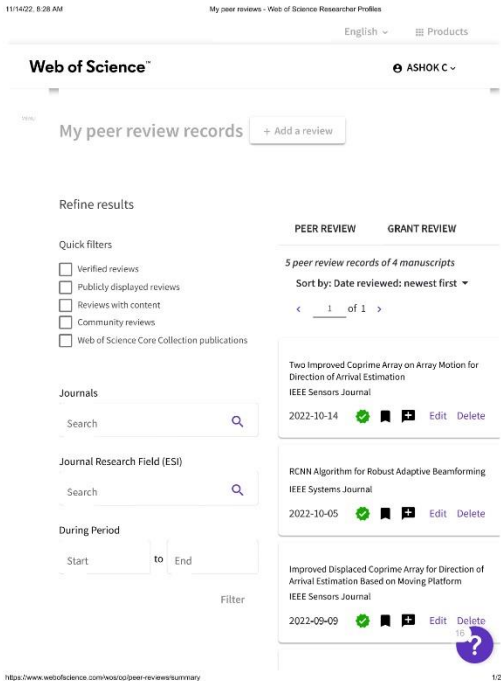
**3. Publications:**

**The following staff member have published the research papers during October in Conference at International Level**

<b>S. No</b>	<b>Name of the Author</b>	<b>Paper Title</b>	<b>Name of the Conference</b>	<b>Publication Details</b>	<b>Date of Publication</b>
1.	Dr. R. Niruban	Analysis of Various Toxic Gas Levels Using 5G ML-IoT for Air Quality Monitoring and Forecasting	IOT with Smart Systems, ICTIS 2022 Conference Proceedings, Springer Book Smart innovation, systems and technologies	Scopus (Yet to be Indexed)	October 2022

**4. Faculty Recognized as a Reviewer:**

The following staff member have been certified as a reviewer

S.No.	Name of the Staff	Journal Details	Review Details
1.	Mr. C. Ashok	IEEE Sensors Journals IEEE Systems Journals	



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(An Autonomous Institution)

St. Joseph's Group of Institutions





Jeppiaar Educational Trust

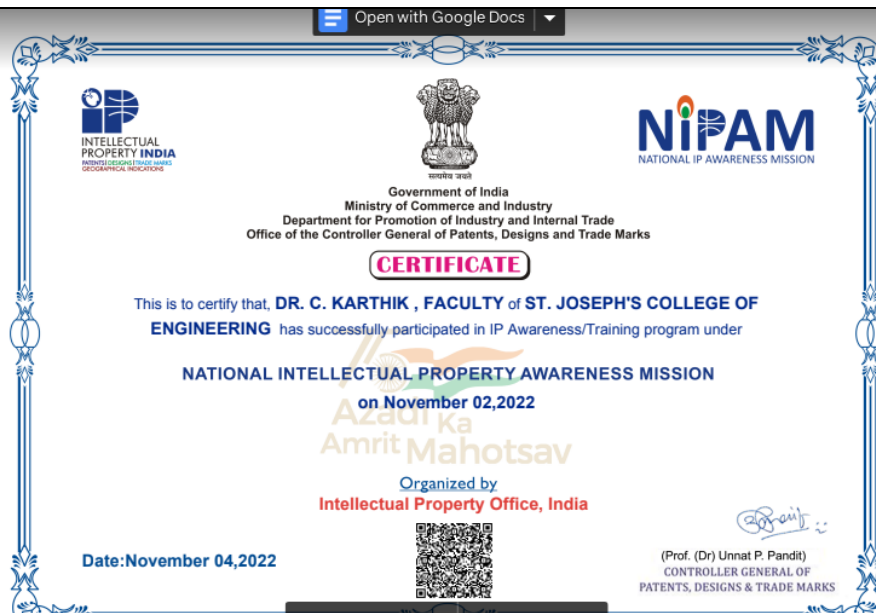
OMR, Chennai - 119.



NOVEMBER 2022

## DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p><b>FDP/WORKSHOP/CONFERENCE</b></p> <div style="text-align: center;">  <p>Allied Health Sciences <b>Chettinad Academy</b> of Research and Education (Deemed to be University)</p> <p><b>CERTIFICATE OF PARTICIPATION</b></p> <p>This is to certify that <b>L F A Anand Raj</b> has participated in the  <b>"FAHS SCIENCE CLUB – NATIONAL LEVEL FACULTY SEMINAR"</b> organized by Faculty of Allied Health Sciences, Chettinad Academy of Research and Education, Kelambakkam, TamilNadu, India on 19<sup>th</sup> November 2022.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>Dr. S. Weslen Vedakumari</b> Convener Assistant Professor, FAHS, CARE</p> </div> <div style="text-align: center;">  <p><b>Dr. K. Kumar Ebenezer</b> Principal (i/c), FAHS, CHRI</p> </div> </div>  <p>e - Certificate</p> <p><b>Copy of Dr. L.F.A. Anand Raj Certificate</b></p> </div>	<p>Dr.L.F.A. Anand Raj, Associate Professor, Department of Biotechnology has participated in a FAHS Science club – National level faculty seminar conducted by Chettinad academy of research and education, kelambakkam on 19<sup>th</sup> November 2022</p> <p>Dr. C.Karthik, Associate Professor, Department of</p>



**Copy of Dr. C. Karthik Certificate**



**Copy of Ms. S. Yuwvaranni Certificate**

Biotechnology has attended 1day online IP awareness training program conducted by Intellectual property office, India on 02.11.2022.

Ms. Yuwvaranni.S has attended 1day online Faculty Seminar Organized by Chettinad Academy of Research and Education, Chennai on 19.11.2022.

Ms B.Sangeetha, Assistant Professor, Department of Biotechnology has attended 1day online Faculty Seminar Organized by Chettinad Academy of Research and Education, Chennai on 19.11.2022

Ms. D. G. Caroline, Assistant Professor, Department of Biotechnology has attended 1day online IP awareness training program conducted by Intellectual property office, India on 02.11.2022.

Ms. Antony Catherine Flora L attended a five days online faculty development programme on 'Recent advances in chemical engineering-2022' conducted by Rajalakshmi Engineering College on 8<sup>th</sup> to 12<sup>th</sup> November 2022.

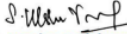





Allied Health Sciences  
**Chettinad Academy**  
of Research and Education  
(Deemed to be University)

## CERTIFICATE OF PARTICIPATION

This is to certify that **Ms. B. Sangeetha** ..... has participated in the  
"FAHS SCIENCE CLUB – NATIONAL LEVEL FACULTY SEMINAR" organized by Faculty of Allied Health  
Sciences, Chettinad Academy of Research and Education, Kelambakkam, TamilNadu, India  
on 19<sup>th</sup> November 2022.

  
**Dr. S. Weslen Vedakumari**  
Convener  
Assistant Professor,  
FAHS, CARE

  
**Dr. K. Kumar Ebenezer**  
Principal (i/c),  
FAHS, CHRI

e - Certificate







**Copy of Ms. B.Sangeetha Certificate**



Copy of Ms. D.G. Caroline Certificate



Copy of Ms. L. Antony Catherine Flora FDP certificate

2.	<b>INDUSTRIAL PROJECTS DONE BY STUDENTS</b>	-
3.	<p style="text-align: center;"><b>PUBLICATIONS(ONLY PUBLISHED) DETAILS</b></p>  <p style="text-align: center;"> <b>CERTIFICATE</b>          PROUDLY PRESENTED TO  <i>Baskar Gurunathan</i>  <hr/>         Bioprocesses &amp; Biotechnology: An Insight Session    <hr/>         Nov 22, 2022      Taylor &amp; Francis Group  <small>Date of Completion      Organizer</small> </p> <p style="text-align: center;">    </p> <p style="text-align: center;">Dr. G. Baskar – Copy of certificate of participation</p>	<p><b>Dr. G. Baskar</b>, Professor, Department of Biotechnology Participated in Panel Session on Bioprocesses &amp; Biotechnology: An Insight Session, organized by Taylor and Francis Group in collaboration with the Biotech Research Society, India on 21.11.2022.</p> <p>Mr. Natraraj completed his Ph.D viva-voce on 18.11.2022 under the Guidance of Dr. G. Baskar.          Title of the thesis is: AFFINITY IMPROVEMENT OF A THERAPEUTIC ANTIBODY (ANTICANCER DRUG) TRASTUZUMAB BY SEQUENCE-BASED COMPUTATIONAL DESIGN</p> <p>Dr. M. Chamundeeswari and Ms. K.R. Preethy published a paper on “Optimization of reduced Graphene oxide synthesis using central composite design analysis—A waste to value approach”, Environmental Science and Pollution Research (2022)</p>



Printed Date : 27-10-2022 09:33:01-am

DH : ARB

Notification for Ph.D. Public Viva-Voce Examination

Name of the Scholar : Nataraj B  
 Registration Number : 17145997126  
 Degree / Category : Ph.D. / Part-Time  
 Faculty : Technology  
 Title of the Thesis : AFFINITY IMPROVEMENT OF A THERAPEUTIC ANTIBODY (ANTI-CANCER DRUG) TRASTUZUMAB BY SEQUENCE-BASED COMPUTATIONAL DESIGN  
 Date and Time of Viva-Voce Examination : 18.11.2022 & 02:30-pm  
 Venue : Seminar Hall  
 Department of BioTech  
 St. Josephs College of Engineering, Chennai  
 600119  
 Name and Address of the Supervisor : Dr.G.Baskar  
 Professor  
 Department of Biotechnology  
 St. Josephs College of Engineering  
 Chennai - 600119  
 Name and Address of the Joint Supervisor/Research Co-ordinator/Supervisor In-charge : Not Applicable  
 Online Meeting Details : <https://meet.google.com/vcq-fbyz-tg>

All are cordially invited to attend the Ph.D. Public Viva-Voce Examination

Date : 27-10-2022

Place : St. Josephs College of Engineering, Chennai, 600119

*Dr. G. Baskar*  
 27/10/22

Signature of the Supervisor  
 (Name, date and seal)  
**Dr. G. BASKAR, M.Tech., M.B.A., Ph.D., P.E.**  
 Professor  
 Department of Biotechnology  
 St. Joseph's College of Engineering  
 Chennai - 600 119, India.

Signature of the Joint Supervisor/  
 Research Co-ordinator / Supervisor  
 In-Charge  
 (Name, date and seal)  
 (If applicable)

*Dr. G. Sree Kumar*  
 27/10/22

Signature of the HoD/Head of the Centre of the Supervisor  
 (Name, date and seal)  
**Dr.G.SREEKUMAR M.Sc., M.Tech., Ph D**  
 Professor & Head of the Department  
 Department of Biotechnology  
 St. Joseph's College of Engineering  
 OMR Road, Chennai - 600 119, India

- Personal Secretary to Vice Chancellor, Anna University, Chennai - 25.
- Personal Assistant to Registrar, Anna University, Chennai - 25.
- The Controller of Examinations, Anna university, Chennai - 25.
- The Additional Controller of Examinations, Anna university, Chennai - 25.
- The Director, Centre for Research, Anna University, Chennai - 25.
- The Director, Ramanujan Computing Centre, Anna University, Chennai - 25.
- Dean / Director/Principal of Government, Government Aided and Affiliated Engineering Colleges.
- The Chairman, St. Josephs Group of Institutions, Chennai 600119.
- The Managing Director, St. Josephs Group of Institutions, Chennai 600119.
- The Executive Director, St. Josephs Group of Institutions, Chennai 600119.
- The Principal and Deans St. Josephs College of Engineering, Chennai 600119.
- The HoD, Department of Biotechnology, St. Josephs College of Engineering, Chennai 600119.



Dr. G. Baskar – Copy of student viva voce notification

Research Article | [Published: 18 November 2022](#)

## Optimization of reduced Graphene oxide synthesis using central composite design analysis—A waste to value approach

[Preethy Kuppusamy Ravichandran](#) & [Chamundeeswari Munusamy](#) 

[Environmental Science and Pollution Research](#) (2022) | [Cite this article](#)

61 Accesses | [Metrics](#)

### Abstract

In recent times, reduced graphene oxide has gained more attention in various fields. In our study, a direct synthesis of reduced graphene oxide using a novel carbon-rich agro-waste from *Pennisetum glaucum* was used. Ferrocene acted as an oxidizing agent during thermal degradation at 300 °C for 15 and 20 min to promote graphene oxide and reduced graphene oxide formation. The X-ray diffraction peak at  $2\theta$  indicating a shift from 16.86 to 24.28°, presence of functional groups like –OH stretching, –C = C–, C = O, C–O, and C–OH by Fourier transmission infrared spectroscopy, prominent D and G bands at 1308  $\text{cm}^{-1}$  and 1578  $\text{cm}^{-1}$  by Raman spectra and UV–visible spectroscopy peak shift from 235 to 245 nm ( $\pi$ – $\pi^*$ , C = C bonds) confirmed the reduction of graphene oxide to reduced graphene oxide. The average

**Copy of paper published by Dr.M.Chamundeeswari and Ms. K.R. Preethy**



## DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
1.	VALUE ADDED COURSES	<ul style="list-style-type: none"> <li>i. <b>Dr. N.Venkatesh</b> has successfully completed a NPTEL course on <b>Training of Trainers</b></li> </ul>
2.	COMPETITIONS ATTENDED BY STUDENTS	<ul style="list-style-type: none"> <li>i. <b>Mukil.S</b> and <b>Praveen Kumar.V</b> from <b>III Year Chemical</b> has participated in <b>National Level Technical Symposium “Invente’22”</b> conducted by <b>SSN College of Engineering and Shiv Nadar University, Chennai</b> on <b>3<sup>rd</sup> of November</b>.</li> </ul>
3.	AWARDS/PRIZE WON BY STUDENTS	<ul style="list-style-type: none"> <li>i. <b>Mukil.S</b> and <b>Praveen Kumar.V</b> from <b>III Year Chemical</b> has won <b>I<sup>st</sup> Place</b> in the event <b>Poster Presentation</b> in <b>National Level Technical Symposium “Invente’22”</b> conducted by <b>SSN College of Engineering and Shiv Nadar University, Chennai</b> on <b>3<sup>rd</sup> of November</b>.</li> <li>v. <b>Mukil.S</b> and <b>Praveen Kumar.V</b> from <b>III Year Chemical</b> has won <b>II<sup>nd</sup> Place</b> in the event <b>Quiz</b> in <b>National Level Technical Symposium “Invente’22”</b> conducted by <b>SSN College of Engineering and Shiv Nadar University, Chennai</b> on <b>3<sup>rd</sup> of November</b>.</li> </ul>
4.	PUBLICATIONS(ONLY PUBLISHED) DETAILS	<ul style="list-style-type: none"> <li>v. <b>Dr.B.Senthil Rathi</b> has Published a paper “<i>Electrodeionization:Principle, techniques and factors influencing its performance</i>”, <i>Environmental Research</i> 216, 114756.</li> <li>i. <b>Dr.B.Senthil Rathi</b> has Published a paper “<i>A Sustainable approach on thermal and catalytic conversion of waste plastics into fuels</i>”, <i>Fuel</i>,126977</li> </ul>

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	FDP on Developing Academic and Administrative Leadership (ICT 137)	<p><b>Date</b> : 21.11.2022 to 25.11.2022 <b>Venue</b> : Online <b>Nature of Event</b> : Faculty Development Programme <b>Participants</b> : Engineering Faculties <b>Organized by</b> : NITTTR, Chanigarh</p> <ul style="list-style-type: none"><li>• <b>Objective:</b><ul style="list-style-type: none"><li>• To get exposure on Academic and Administrative Leadership</li></ul></li></ul> <p><b>Outcome:</b></p> <ul style="list-style-type: none"><li>• Gained knowledge about the fundamentals of Leadership.</li><li>• focus on creating conducive environment for personal academy growth and institution development within the institutions of higher learning</li><li>• The ability to both communicate their own ideas effectively, as well as listen and prove engagement with the ideas of others.</li></ul>

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## 1. Grant Received:

The have been organized and conducted in the month of September and October 2022

<b>Optica Student Chapter</b>	<b>Grant</b>
Received a special grant of \$1500 USD(Rs.1,19,520) from <b>OPTICA Society -USA</b> towards conducting a one day workshop on CYBERSECURITY during October 2022.	

## 2. Publications:

The following staff member have published the research papers during October in Conference at International Level

S. No.	Name of the Author	Paper Title	Name of the Conference	Publicati on Details	Date of Publication
1.	Dr. D.Lakshmi, Dr. R. Sivakumar	Multi-Class SVM Prediction Model for Lung Cancer Diagnosis	International Conference on Artificial Intelligence for Smart Community	Lecture Notes in Electrical Engineering book series (LNEE, volume 758)Pages :253-263	14 <sup>th</sup> November 2022
2.	S. Vinayagapriya.	Attractive image artifacts suppression in color transfer image	AIP Conference Proceedings	Volume 2518, Issue 1	November 2022

## 3. FDP Attended by Faculty:

The following staff members have attended the Faculty Development Program in the month of November at National Level

S. No.	Name of the Staff	Title of the FDP	Host Institution	Duration	Date of Completion
1.	Mrs.R.Madhumitha	Artificial intelligence and optimisation techniques	NITTTR Chandigarh	5	21.11.22 to 25.11.22
2.	Mrs. S.Devipriya	Artificial intelligence and optimisation techniques	NITTTR Chandigarh	5	21.11.22 to 25.11.22

3.	Mrs. G.Anitha	Artificial intelligence and optimisation techniques	NITTTR Chandigarh	5	21.11.22 to 25.11.22
4.	Mr. K.Ramachandra Reddy	Artificial intelligence and optimisation techniques	NITTTR Chandigarh	5	21.11.22 to 25.11.22
5.	Dr. R. Niruban	Artificial intelligence and optimisation techniques	NITTTR Chandigarh	5	21.11.22 to 25.11.22
6.	Mr. M.Lingeshwaran	Artificial intelligence and optimisation techniques	NITTTR Chandigarh	5	21.11.22 to 25.11.22
7.	Dr. S. Rajeshkannan	Artificial intelligence and optimisation techniques	NITTTR Chandigarh	5	21.11.22 to 25.11.22
8.	Dr. J. Sivakumar	Artificial intelligence and optimisation techniques	NITTTR Chandigarh	5	21.11.22 to 25.11.22
9.	Dr. P. Ezhilarasi	Artificial intelligence and optimisation techniques	NITTTR Chandigarh	5	21.11.22 to 25.11.22
10.	Mrs.K.R.Kayalvizhi	Artificial intelligence and optimisation techniques	NITTTR Chandigarh	5	21.11.22 to 25.11.22
11.	Dr.Shirley Selvan	Signal Processing, Artificial Intelligence and Machine Learning in Biomedical Engineering	SSN (IEEE Signal Processing Society)	3	16.11.2022 to 18.11.2022

# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	Remarks
1.	 <p style="text-align: center;"><b>PIC: FDP poster</b></p>	<p>Our Electrical and Electronics Engineering Department in collaboration with National Institute of Technical Teachers' Training and Research (NITTTR) Chandigarh conducted Faculty Development Programme on MATLAB – Artificial Intelligence &amp; Optimization Techniques during 21st November to 25th November. The internal and external faculty members are actively attended the programme and certified.</p>
2.	<h2 style="margin: 0;">PLACEMENT DETAILS FOR THE MONTH OF NOVEMBER 2022</h2>	<p>Total No of students placed = 97 UG Students                      Total No of Offers = 144 Offers                      Total No of Students (UG) = 160                      Total No of Eligible Students (UG) = 144 (All Clear &amp; 1 arrear students)                      Total No of Eligible Students (PG) = 06                      % of students Placed (UG) = <math>95/144 = 67.36\%</math>                      % of students Placed (PG) = NIL                      No of students having single offers = 59                      No of students having Double offers = 29                      No of students having Triple offers = 09</p>



3.



PIC: Paper Screen shot

Criteria 1

Our staff member Dr.V.Krishnakumar published paper title on “Optimal Battery Management System Utilized in Electric Vehicle Using Fuzzy Logic Controller (FLC) and Artificial Eco-System Algorithm (AEO)” in Cybernetics and Systems.

4.



PIC: IEEE Event poster

The IEEE SJCE SB மாணவர் மன்றம் of St. Joseph's College of Engineering in association with IEEE Madras Section conducted an online art competition “ஓவிய வானம்”. The event was conducted in the google form platform on the topic மாசு கட்டுப்பாடு . Over 15 participants attended the event and all of them were provided with a participation E-Certificate. The student coordinators for this event were Mani Sha. N, Jayashruthi R.V, AkshayaKrishnen, Amirtha Varshini. M and Godson S V Noble.

5.



PIC: IEEE Event poster

The “Sudoku Solving” is an online Sudoku solving contest event conducted by IEEE Student Branch Chapter of St. Joseph's College of Engineering under Women In Engineering Affinity Group on 7<sup>th</sup> November 2022. A total of 25 Participants participated in the event. The students were given a time limit and instructed to solve the Sudoku puzzle. The students who finished quickly were recognised as the contest winners.. The event started exploring the hidden talent of our Students and they were honoured with e-certificates for their outstanding contributions during the Event.

6.



PIC: IEEE Event poster

The IEEE SJCE SB மானவர் மன்றம் of St Joseph's College of Engineering in association with IEEE Madras Section conducted an online quiz event “வினா நேரம்”. The event was conducted in the google form platform on the topic மனித நாகரீகம். Over 25 participants attended the event and all of them were provided with a participation E-Certificate and the winner of this event is Rajesh, Udhayaraga and Abinaya Sri T. The student coordinators for this event were Mani Sha. N, Jayashruthi R.V, AkshayaKrishnen, Amirtha Varshini. M and Godson S V Noble.

7.



**PIC: IEEE Event poster**

The “TEDx TALKS” is an online English elocution event for students conducted by the Student Branch Chapter of St. Joseph's College of Engineering under Women In Engineering Affinity Group on 28<sup>th</sup> November 2022. A total of 20 Participants participated in the event. The students were given a topic and instructed to speak for about ten minutes on it. "Challenges Women Face in the Workplace" was the topic of the event. The event started exploring the hidden talent of our Students and they were honoured with e-certificates for their outstanding contributions during the Event.

8.



**PIC: IEEE Training program**

Abishlal N S (2019 - 2023) participated in the IEEE PES R10 Student Chapter Training Program being held in PARKROYAL COLLECTION Marina Bay, Singapore on November 01, 2022.

9.



**PIC: IEEE Training program**

IEEE India Council Award Ceremony happened at Balgotti Palace, Kochi on 25/11/2022. Our Student Branch was awarded the “ OUTSTANDING STUDENT BRANCH AWARD - 2022” and two students from our student branch, Mr. Mohamed Aashik S and Ms. Abinayaa Sri T have been awarded the “ OUTSTANDING STUDENT VOLUNTEER AWARD - 2022” and the “OUTSTANDING WIE STUDENT VOLUNTEER AWARD - 2022” respectively. Both students and our Student Branch Counselor Mr. Sreekanth attended the ceremony live.

10.



**PIC: IEEE event photo**

All India Student Young Professional Women in Engineering Life Congress was held in Pune from October 7 to October 9, 2022. From our Student Branch, Ms. Priyanka J participated as a Panelist, and Mr. Prasanth Kumar A V participated as an ambassador for the Congress.



11.



*PIC: student with trophy*

Our student THIKSHITHA .B who had won the GOLD in ANNA UNIVERSITY INTER ZONE BADMINTON TOURNAMENT held at Sri Sairam Engineering College on 14/11/2022 .

12.



*PIC: student with trophy*

Our student THIKSHITHA .B who had won the GOLD in ANNA UNIVERSITY ZONE BADMINTON TOURNAMENT held at The Loyola-ICAM College of Engineering and Technology, CHENNAI on 10/11/2022.



13.



*PIC: students with trophy*

Our students SHRUTHI V M, JANANI G & MALAR D who had won the GOLD in ANNA UNIVERSITY ZONE BASKETBALL TOURNAMENT held at SSN College of engineering on 24/11/2022 .

14.



*PIC: convocation group photo*

Convocation for the passed-out students of batches 2019,20 and 21 was held at St. Joseph's College of Engineering on 24-11-22. The department of Electrical and Electronics Engineering bagged a total of 20 ranks from all three batches including 1 Gold and 2 Silver medals. It was a moment of pride for the department and College celebrating the glory of our students with usual pomp and grandeur. Totally 459 graduates received their degree certificates in this memorable event.


15.

Hindawi  
Journal of Electrical and Computer Engineering  
Volume 2022, Article ID 8743334, 12 pages  
<https://doi.org/10.1155/2022/8743334>



Research Article

### Novel Switched Configuration-Based Multilevel Inverter Topology for Industrial Applications

V. Krishnakumar,<sup>1</sup> P. Anbarasan,<sup>1</sup> K. Ramash Kumar ,<sup>2</sup> and M. Venmathi<sup>1</sup>

<sup>1</sup>Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering, Chennai, Tamilnadu, India

<sup>2</sup>Department of Electrical and Electronics Engineering, Dr. N.G.P Institute of Technology, Coimbatore 48, Tamilnadu, India

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Received 19 September 2022; Revised 28 October 2022; Accepted 11 November 2022; Published 21 November 2022

Academic Editor: Alessandro Lidozzi

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**PIC: Paper Screen shot**

**Criteria 1**

Our staff members Dr.V. Krishnakumar, Dr. P. Anbarasan, Dr.M. Venmathi, published paper title on "Novel Switched Configuration-Based Multilevel Inverter Topology for Industrial Applications", Journal of Electrical and Computer Engineering, vol. 2022, Article ID 8743334, 12 pages, 2022. <https://doi.org/10.1155/2022/8743334> (ESCI)

16.



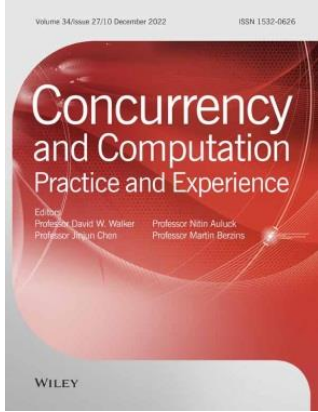
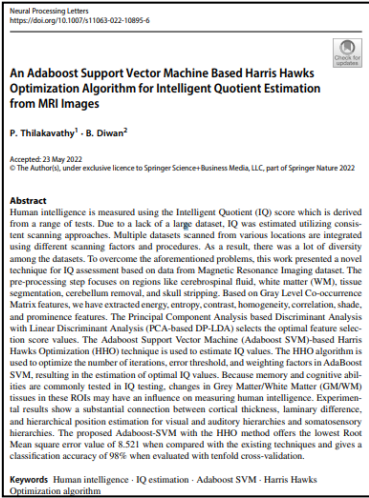
The following faculty members have completed the Online NPTEL Certification Course during June to Nov 2022.

Name of the Faculty	Name of the Course
Dr. V. Krishnakumar	Robotics
Dr. V. Chamundeeswari	Dc Microgrid and Control Systems
Dr.M.Venmathi	Solar Engineering and Technology
Ms.S.Gomathi	Physics for Renewable Energy System
Ms.R.G.Nirmala	Physics for Renewable Energy System
Mr.S.S.Harish	Accreditation and Outcome Based Learning
Dr. T. V. Narmatha	Basic Electric Circuits
Dr.M. Ramesh Babu	Basic Electric Circuits
Mr.C. Venkatesh Kumar	Basic Electric Circuits
Dr.P.Anbarasan	Basic Electric Circuits
Mr.R.Siddhardhan	The Joy of Computing using Python

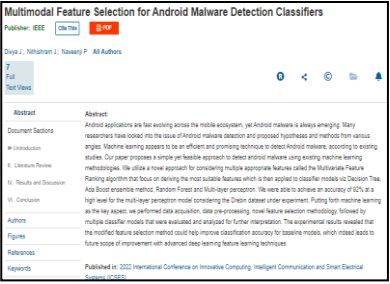

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail					
1	<b>Webinar/ FDP Attended By Faculty</b>	S.No	Faculty Name	Webinar /FDP attended/ workshop	Conducting agency	Period	Link
		1.	Dr.P.deepa	FDP	NPTEL	JUL-OCT 2022	<a href="https://drive.google.com/file/d/1e9a5XqUV4GkqNofAurzd9B-b-ludFIW/view?usp=share_link">https://drive.google.com/file/d/1e9a5XqUV4GkqNofAurzd9B-b-ludFIW/view?usp=share_link</a>
2.	<b>Publication/ Patent/Funded project/Awards</b>	S.No	Faculty Name	Date	Publication	Type	Link
		1.	Dr.Gnanaprakasam C N	25/11/2022	Published	Patent	<a href="https://drive.google.com/file/d/1JwDHSwuKC-R56BuHvvMZ-Z4ubTqbJN6b/view?usp=share_link">https://drive.google.com/file/d/1JwDHSwuKC-R56BuHvvMZ-Z4ubTqbJN6b/view?usp=share_link</a>
		2.	Mr.Sankaran D	18/11/2022	Published	Patent	<a href="https://drive.google.com/file/d/14Xg8nRa6ZaA0QOqrHnd43EMIa4AubzIT/view?usp=share_link">https://drive.google.com/file/d/14Xg8nRa6ZaA0QOqrHnd43EMIa4AubzIT/view?usp=share_link</a>

# DEPARTMENT OF INFORMATION TECHNOLOGY



Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	 <p style="text-align: center;">Author: <b>Dr. D. Logeshwari</b> published a paper (<b>SCI Extended</b>)</p>	<p style="text-align: center;"><b>Staff Publication</b></p> <p><b>D. Logeshwari, P. Prem Priya</b>, “Energy-efficient and privacy-preserving approach for Internet of Things nodes using a novel hybrid fuzzy water cycle and evaporation strategy and matrix-based Rivest–Shamir–Adleman encryption algorithm”, <i>Concurrency and Computation: Practice and Experience</i>, (Publisher: Wiley, E ISSN:1532-0634), p.e7240, <a href="https://doi.org/10.1002/cpe.7336">https://doi.org/10.1002/cpe.7336</a>, Vol. 34, No. 27, Oct 2022. (<b>Impact Factor: 1.831, SCI Extended, Annexure-I</b>).</p> <p><b>Abstract:</b> The Internet of Things (IoT) connects physical components all around the world via the internet and provides people with easy access. Even though IoT offers speedy operations, saves money, and provides automation and control, it suffers from different complexities such as data breaches, security issues, and load balancing. To overcome these complexities in the IoT environment, we propose a novel strategy to deal with energy consumption issues and offer a privacy-preserving data transfer strategy. The proposed hybrid fuzzy water cycle and evaporation algorithm increases the lifetime of IoT networks by reducing the amount of energy required by massive IoT nodes and balancing traffic loads. To protect against malicious entries in cloud servers, the digital data block that is transported to be stored in the cloud is encrypted using the matrix-based RSA encryption technique. The significance of the proposed methodology is proven by simulated results that compare it to state-of-the-art methodologies in terms of security, system cost, resource utilization, and energy consumption. The resource utilization of this proposed methodology is 100% and the security level is 96%.</p>
2	 <p style="text-align: center;">Author: <b>Ms.P. Thilakavathy</b> published a paper (<b>SCI Extended</b>)</p>	<p><b>P. Thilakavathy, B. Diwan</b> “An Adaboost Support Vector Machine Based Harris Hawks Optimization Algorithm for Intelligent Quotient Estimation from MRI Images”, <i>Neural Processing Letters</i>, Publisher: Springer, E ISSN: 1573-773X, Print ISSN: 1370-4621, <a href="https://doi.org/10.1007/s11063-022-10895-6">https://doi.org/10.1007/s11063-022-10895-6</a>, July 2022. (<b>Impact Factor: 2.565, Annexure I, SCI Expanded</b>)</p> <p><b>Abstract:</b> This work presented a novel technique for IQ assessment based on data from Magnetic Resonance Imaging dataset. The pre-processing step focuses on regions like cerebrospinal fluid, white matter (WM), tissue segmentation, cerebellum removal, and skull stripping. Based on Gray Level Co-occurrence Matrix features, we have extracted energy, entropy, contrast, homogeneity, correlation, shade, and prominence features. The Principal Component Analysis based Discriminant Analysis with Linear Discriminant Analysis (PCA-based DP-LDA) selects the optimal feature selection score values. The Adaboost Support Vector Machine (Adaboost SVM)-based Harris Hawks Optimization (HHO) technique is used to estimate IQ values. The HHO algorithm is used to optimize the number of iterations, error threshold, and weighting factors in AdaBoost SVM, resulting in the estimation of optimal IQ values. Because memory and cognitive abilities are commonly tested in IQ testing, changes in Grey Matter/White Matter (GM/WM) tissues in these ROIs may have an influence on measuring human intelligence. Experimental results show a substantial connection between cortical thickness, laminary difference, and hierarchical position estimation for visual and auditory hierarchies and somatosensory hierarchies. The proposed Adaboost-SVM with the HHO method offers the lowest Root Mean square error value of 8.521 when compared with the existing techniques and gives a classification accuracy of 98% when evaluated with tenfold cross-validation.</p>




Sl. No.	Photographs Captured During Event	techniques and gives a classification accuracy of 98% when evaluated with tenfold cross-validation. <b>Corresponding remarks in regarding the status of activity execution</b>
3	 <p><b>Ms. J. Divya, J. Nithishram, P. Naveenji</b> published a conference paper (Scopus Indexed)</p>	<p style="text-align: center;"><b><u>Student and Staff Publication</u></b></p> <p><b>J. Divya, J. Nithishram, P. Naveenji</b>, “Multimodal Feature Selection for Android Malware Detection Classifiers”, 2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICESES), Publisher: IEEE, E ISBN: 978-1-6654-7413-9, Print ISBN: 978-1-6654-7414-6, pp. 1-5, doi: 10.1109/ICESES55317.2022.9914324, 2022. <b>(Indexed in Scopus)</b></p> <p><b>Abstract:</b> Android applications are fast evolving across the mobile ecosystem, yet Android malware is always emerging. Many researchers have looked into the issue of Android malware detection and proposed hypotheses and methods from various angles. Machine learning appears to be an efficient and promising technique to detect Android malware, according to existing studies. Our paper proposes a simple yet feasible approach to detect android malware using existing machine learning methodologies. We utilize a novel approach for considering multiple appropriate features called the Multivariate Feature Ranking algorithm that focus on deriving the most suitable features which is then applied to classifier models viz Decision Tree, Ada Boost ensemble method, Random Forest and Multi-layer perceptron. We were able to achieve an accuracy of 92% at a high level for the multi-layer perceptron model considering the Drebin dataset under experiment. Putting forth machine learning as the key aspect, we performed data acquisition, data pre-processing, novel feature selection methodology, followed by multiple classifier models that were evaluated and analyzed for further interpretation. The experimental results revealed that the modified feature selection method could help improve classification accuracy for baseline models, which indeed leads to future scope of improvement with advanced deep learning feature learning techniques.</p>
4	 <p><b>Dr. C. Heltin Genitha, R. Kiruba Sangaree, V. Kokilavani</b> published a conference paper (Scopus Indexed)</p>	<p><b>C. Heltin Genitha, R. Kiruba Sangaree, V. Kokilavani</b>, “Intelligent Face Mask and Body Temperature Detection System using Machine Learning Algorithm”, 2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems, Publisher: IEEE, E ISBN: 978-1-6654-7413-9, Print ISBN: 978-1-6654-7414-6, doi: 10.1109/ICESES55317.2022.9914237, pp. 1-6, ICSES 2022. <b>(Indexed in Scopus)</b></p> <p><b>Abstract:</b> Face mask and body temperature detection is necessary for current pandemic period. Detecting face mask and body temperature helps in decreasing or to avoid spreading of COVID cases especially in crowded areas. The main purpose of face mask recognition and temperature prediction system is to find whether a person is wearing a mask or not and to check the body temperature. With the help of deep neural network based Convolution Neural Network algorithm, face mask has been recognized. For body temperature, LM35 temperature sensor is used. This system undergoes data pre-processing, training, detecting face mask and temperature. By using MobileNet V2, Frontcascadexml file, tensor flow and keras software library the face mask is detected. Then, the result is send to the Arduino microcontroller and displays that the face mask is detected or not by using LED. If the mask is not weared by the person, buzzer will be alarmed. Similar procedure was carried out for monitoring the temperature of a person using LM35 temperature sensor. The main advantages of MobileNet V2 are higher performance, lesser network size and minimum number of parameter are required.</p>




# DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	 <p data-bbox="239 846 905 873"><b>Interaction of placed students with third year students.</b></p>	<ul data-bbox="1192 285 2039 354" style="list-style-type: none"><li>➤ Placed students of final year(Batch:2019-2023) interacted with third year students to create awareness about the interview process</li></ul>
2	 <p data-bbox="239 1276 478 1302"><b>Alumni Interaction</b></p>	<ul data-bbox="1192 883 2039 951" style="list-style-type: none"><li>➤ Alumni of passed out batch 2017-21 Mr.S.Aswin interacted with the final year students</li></ul>

4		<ul style="list-style-type: none"> <li>➤ <b>Mr.M.Ganesh</b> attended one week online International FDP pn <b>Trends and Challenges in the development of Electric Vehicles &amp; Hybrid Vehicles</b> organized by <i>Lendi Institute of Engineering and Technology</i> during the period of <b>14<sup>th</sup> to 18<sup>th</sup> November 2022..</b></li> <li>➤ <b>Dr.N.E.Arun Kumar</b> attended one week online International FDP pn <b>Trends and Challenges in the development of Electric Vehicles &amp; Hybrid Vehicles</b> organized by <i>Lendi Institute of Engineering and Technology</i> during the period of <b>14<sup>th</sup> to 18<sup>th</sup> November 2022.</b></li> <li>➤ <b>Mr.G.Kasirajan</b> attended one week online International FDP pn <b>Trends and Challenges in the development of Electric Vehicles &amp; Hybrid Vehicles</b> organized by <i>Lendi Institute of Engineering and Technology</i> during the period of <b>14<sup>th</sup> to 18<sup>th</sup> November 2022.</b></li> </ul>
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5	<table border="1"> <thead> <tr> <th>S. No</th> <th>Name of the Student</th> <th>Year</th> <th>Name of the Event</th> <th>Organiser</th> <th>Place</th> <th>Cash Prize (Rs.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>PRINCE ANTONY CLARET. S</td> <td rowspan="2">IV</td> <td rowspan="2">BUZZ</td> <td rowspan="2">LOYOLA - ICAM</td> <td rowspan="2">I</td> <td rowspan="2">1000</td> </tr> <tr> <td>2</td> <td>SURESH</td> </tr> <tr> <td>3</td> <td>LIONEL MORAIS</td> <td rowspan="2">IV</td> <td rowspan="2">CRIME SCENE INVESTIGATION</td> <td rowspan="2">LOYOLA - ICAM</td> <td rowspan="2">II</td> <td rowspan="2">500</td> </tr> <tr> <td>4</td> <td>MADHAN. S</td> </tr> <tr> <td>5</td> <td>DAMODHARAN. A</td> <td rowspan="2">III</td> <td rowspan="2">WEB DECORZ</td> <td rowspan="2">R.M.K COLLEGE OF ENGINEERING</td> <td rowspan="2">II</td> <td rowspan="2">750</td> </tr> <tr> <td>6</td> <td>ASWIN. R. J</td> </tr> <tr> <td>7</td> <td>SARATHI. R</td> <td>II</td> <td>BUG OFF</td> <td>EASWARI ENGG. COLLEGE</td> <td>II</td> <td>1000</td> </tr> <tr> <td>8</td> <td>PRINCE ANTONY CLARET. S</td> <td rowspan="3">IV</td> <td rowspan="3">MARKETECH</td> <td rowspan="3">LOYOLA - ICAM</td> <td rowspan="3">II</td> <td rowspan="3">500</td> </tr> <tr> <td>9</td> <td>SURESH</td> </tr> <tr> <td>10</td> <td>SANJAY KALYAN</td> </tr> <tr> <td>11</td> <td>CHANDRU S</td> <td>III</td> <td>MR. DESIGNER</td> <td>R.M.K COLLEGE OF ENGINEERING</td> <td>II</td> <td>700</td> </tr> </tbody> </table> <p><b>Student Prize Winners</b></p>	S. No	Name of the Student	Year	Name of the Event	Organiser	Place	Cash Prize (Rs.)	1	PRINCE ANTONY CLARET. S	IV	BUZZ	LOYOLA - ICAM	I	1000	2	SURESH	3	LIONEL MORAIS	IV	CRIME SCENE INVESTIGATION	LOYOLA - ICAM	II	500	4	MADHAN. S	5	DAMODHARAN. A	III	WEB DECORZ	R.M.K COLLEGE OF ENGINEERING	II	750	6	ASWIN. R. J	7	SARATHI. R	II	BUG OFF	EASWARI ENGG. COLLEGE	II	1000	8	PRINCE ANTONY CLARET. S	IV	MARKETECH	LOYOLA - ICAM	II	500	9	SURESH	10	SANJAY KALYAN	11	CHANDRU S	III	MR. DESIGNER	R.M.K COLLEGE OF ENGINEERING	II	700	
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## DEPARTMENT OF MATHEMATICS

Events	Remarks																												
<b>FDP/Workshop/Conference</b>																													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 8%;">S.No</th> <th style="width: 22%;">Name of the Staff</th> <th style="width: 25%;">Program Title</th> <th style="width: 15%;">National/ International</th> <th style="width: 15%;">Organized by</th> <th style="width: 15%;">Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Dr.G.Purushothaman</td> <td rowspan="6" style="text-align: center;">Three days E-Workshop on R-Software</td> <td rowspan="6" style="text-align: center;">National</td> <td rowspan="6" style="text-align: center;">Dr.M.G.R. Educational and research institute</td> <td rowspan="6" style="text-align: center;">16-11-2022 to 18-11-2022</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Mr.S.M.Balaji</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Mr.S.Manikandaprabhu</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Dr.G.Meena Devi</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Dr.K.Suresh</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Mr.K.Suresh</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Mr.Chellamani</td> <td>Linear Algebra for Computer Science and Machine Learning</td> <td></td> <td style="text-align: center;">NPTEL+</td> <td style="text-align: center;">19-11-2022 to 20-11-2022</td> </tr> </tbody> </table>	S.No	Name of the Staff	Program Title	National/ International	Organized by	Date	1	Dr.G.Purushothaman	Three days E-Workshop on R-Software	National	Dr.M.G.R. Educational and research institute	16-11-2022 to 18-11-2022	2	Mr.S.M.Balaji	3	Mr.S.Manikandaprabhu	4	Dr.G.Meena Devi	5	Dr.K.Suresh	6	Mr.K.Suresh	7	Mr.Chellamani	Linear Algebra for Computer Science and Machine Learning		NPTEL+	19-11-2022 to 20-11-2022
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<b>Publications(only published) details</b>	<ol style="list-style-type: none"> <li>Agilan, P.; Juliet raja, K.;. Intuitionistic Fuzzy Stability of an Euler–Lagrange Symmetry Additive Functional Equation via Direct and Fixed Point Technique (FPT). Symmetry 2022, 14, 2454. <a href="https://doi.org/10.3390/sym14112454">https://doi.org/10.3390/sym14112454</a></li> </ol>																												

## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	<b>FDP/Workshop/Conference</b>	<p><b><i>NPTEL courses and FDP – June – Nov 2022</i></b></p> <ol style="list-style-type: none"> <li>1. Dr. S. Suresh - Physics of Renewable Energy Systems – Elite</li> <li>2. Dr. V. Swarnalatha – Municipal Solid waste Management – Elite</li> <li>3. Dr. P. Saravanan – Municipal Solid waste Management – Elite</li> <li>4. Dr. N.R. Rajagopalan – Municipal Solid waste Management – Elite</li> <li>5. Ms. S. Savitha – Municipal Solid waste Management – Elite</li> <li>6. Ms. J. Sharmila – Municipal Solid waste Management – Elite</li> <li>7. Dr. N.R. Rajagopalan – Public speaking – Elite / Silver / 1% Topper</li> </ol> <p><b><i>Other FDP / Webinars</i></b></p> <ol style="list-style-type: none"> <li>1. Dr. P. Krishnan attended International Faculty Development Program on “Current scenario in advanced materials research and technology” conducted by “RajapalayamRaju's college - Rajapalayam,Tamilnadu” held from 14.11.22 to 18.11.22.</li> <li>2. Dr. P. Krishnan attended International Faculty Development Program on “Recent Research in Materials Physics and Nano devices” conducted by “RajapalayamRaju's college - Rajapalayam,Tamilnadu” held from 21.11.22 to 25.11.22.</li> <li>3. Dr. S. Suresh, Ms. J. Sharmila attended an International webinar on “Advanced Transparent Ceramic Materials for Defence Applications” conducted by “Bharat Institute of Engineering and Technology - Hyderabad - 501510” held on 26.11.22.</li> <li>4. Dr. V. N. Nandini Devi, Dr. N. Punitha, Dr. P. Krishnan, Mr. S. Kaleel Mohamed Ibrahim, Dr. K. Sathesh Kumar, Dr. N.R. Rajagopalan, Dr. S.M. Prakash, Dr. S. Rama, Dr. K. Jayamoorthy, Dr. P. Saravanan, Dr. G. Murugan, Dr. A. Uma Devi, Ms. J. Sharmila, Dr. G. Sasikumar, Ms. S. Savitha, Dr. B. Subash, Dr. V. Swarnalatha, attended National webinar on “Nanomaterials and their applications” conducted by “Bharat Institute of Higher Education and Resesarch, Chennai - 600127” on 30.11.22</li> </ol>
2	<b>Value added Courses/Courses other than VAC</b>	Dr. V. N. Nandini Devi, Dr. S. Rama, Dr. S. Kiruba, Dr. V. Swarnalatha, Dr. P. Saravanan, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Ms. J. Sharmila, Ms. S. Savitha, Dr. K. Jayamoorthy, Dr. S.M. Prakash have successfully completed various multi-disciplinary Udeemy courses during the month of Nov 2022.
3	<b>Competitions attended by students</b>	-
4	<b>Awards/Prize won by students / Staff</b>	1. Dr. N.R. Rajagopalan received 1% topper certificate in the NPTEL exam titled “Public speaking” held on 30.10.22.

		2. Dr.K. Sathesh Kumar, Dr. P. Krishnan have been awarded CSIR NET lectureship.
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*You Choose, We Do It*

# St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. Joseph's Group of Institutions

Jeppiaar Educational Trust

OMR, Chennai - 119.



DECEMBER 2022

## DEPARTMENT OF CHEMICAL ENGINEERING


S.No.	Title of the Events and Photographs	Details of the Event
1.	FDP/WORKSHOP/CONFERENCE/PDP	Dr. N.Venkaresh, Professor has completed Professional Development Program on <i>“Implementation of NEP-2020 fro University and College Teachers”</i> Conducted by Indira Gandhi National Open University held on December 21- 31
2.	PUBLICATIONS(ONLY PUBLISHED) DETAILS	B.Senthil Rathi, Assistant Professor published a peper <i>“A sustainable approach on thermal and catalytic conversion of waste plastics into fuels”</i> <b>BS Rathi</b> , PS Kumar, G Rangasamy - Fuel, 2022

## DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	<b>Industrial Visits, In plant trainings, Internships</b>	<ul style="list-style-type: none"> <li>● 25 students of III year completed in plant training/Internship during Christmas holidays.</li> <li>● 10 students of II year completed in plant training/Internship during Christmas holidays.</li> </ul>
2.	<b>FDP/Workshop/Conference attended</b>	<ul style="list-style-type: none"> <li>● Dr.S.Thenmozhi attended FDP on “Applications of Artificial Intelligence and Machine Learning in Civil Engineering “ from 27.10.2022 to 25.11.2022 organized by RVR&amp;JC college of Engineering in association with Indian Geotechnical Society, Guntur chapter</li> <li>● Dr.V.Gowri attended FDP on “Applications of Artificial Intelligence and Machine Learning in Civil Engineering “ from 27.10.2022 to 25.11.2022 organized by RVR&amp;JC college of Engineering in association with Indian Geotechnical Society, Guntur chapter</li> <li>● Dr.V.Gowri participated in the workshop on “Bhuvan Overview”conducted by ISRO during 09.11.2022 to 11.11.2022.</li> </ul> <p>Mr. S.Thangaperumal has attended a 5-day online FDP on "Applications of Artificial Intelligence and Machine Learning in Civil Engineering " organized by the Department of Civil Engineering, Vishnu Institute of Technology, Bhimavaram during 24.11.2022 to 29.11.2022.</p>
3.	<b>STTP / Webinar Attended</b>	<ul style="list-style-type: none"> <li>● Dr.S.Thenmozhi has attended one week online short term Refresher course on “Publications, Projects and Patents (PPP-2K22) organized by Department of Civil Engineering, CVR College of Engineering during 28.11.2022 to 04.12.2022, Hyderabad.</li> <li>● S.Banupriya and R.Ruthra have attended a National Seminar titled “Emerging Trends and Practices of Soil Improvement Techniques in Geotechnics” on 5.12.2022 conducted by Department of Civil Engineering, Vels Institute of Science,</li> </ul>

		Technology & Advanced Studies (VISTAS), Chennai.
		<ul style="list-style-type: none"> <li>S.P.Senthil Kumar attended a webinar on Construction of 440m Long Dobra Chanthi Suspension Bridge by Er. S. K. Rai, Retd. Superintending Engineer, PWD Uttarakhand, on December 31, 2022 conducted by UltraTech Cement Ltd &amp; Indian Concrete Institute- Ghaziabad.</li> </ul>
4.	<b>Other activities (if any)</b>	Dr.S.Thenmozhi & Dr.V.Gowri published a Design patent on “Smart Plastic Waste Management Machine” on 16.12.2022, Design Number 369324-001, published in Intellectual Property Right, India.

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	Remarks
1.	 <p style="text-align: center;"><b>PIC: IEEE Event Poster</b></p>	<p>The “Pixel Power” is an online Pencil Drawing contest event conducted by IEEE Student Branch Chapter of St. Joseph's College of Engineering under Women In Engineering Affinity Group sponsored by IEEE SPaX on 19<sup>th</sup> December 2022. A total of 20 Participants participated in the event. The students were given a time limit and instructed to submit their artworks. This event showcased the students' creativity. The event started exploring the hidden talent of our Students and they were honoured with e-certificates for their outstanding contributions during the Event.</p>

<p>2.</p>	<p><b>PIC: IEEE Event Poster</b></p>	<p>The “She Thinks” is an networking event conducted by IEEE Student Branch Chapter of St. Joseph's College of Engineering under Women In Engineering Affinity Group sponsored by IEEE SPAX on 19<sup>th</sup> December 2022. The networking session was open for all College students conducted. We invited senior members and student members of the IEEE from other branches joined the session and built relationships with senior members to learn more about IEEE. Around 50 students participated in this event. Intermittently, interesting events were held.</p>
<p>3.</p>		<p>The “Tierra - Quiz Contest” is a quiz event conducted by IEEE Student Branch Chapter of St. Joseph's College of Engineering under Women In Engineering Affinity Group sponsored by IEEE SPAX on 19<sup>th</sup> December 2022. Around 45 students participated in this contest. The Quiz Contest is open for all College students .The event was planned to gain more knowledge about women's achievements. The event started exploring the hidden talent of our Students and they were honoured with e-certificates for their outstanding contributions during the Event.</p>

3rd Class: 1st Dec 11

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
**St. Joseph's Group of Institutions**  
OMR, Chennai - 119

**Counselling Code :1317**

ARITA  
NBA  
IEEE  
nirf  
Cambridge

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
IEEE Women in Engineering Affinity Group presents  
IEEE SPAX sponsored

**TIERRA**  
The Quiz Competition  
**QUIZ TIME**

2022  
19 th  
December

Merit E-Certificates will be provided to the winners  
E-Certificates will be provided to all the participants

**Chief Patron**  
Dr. B. Babu Manoharan

**Patrons**  
Mrs. S. Jessie Priya  
Mr. B. Shashi Sekar

**Dr. Vaddi Seshagiri Rao**  
Principal, St. Joseph's College of Engineering

**Dr. V. Vallinayagam**  
Dean Academics, St. Joseph's College of Engineering

**Dr. A. Chandra Sekar**  
Dean Research, St. Joseph's College of Engineering

**Dr. C. Sreekumar**  
Dean Students, St. Joseph's College of Engineering

**Convenor**  
Dr. T.V. Narmadha

**SBC Advisor**  
Dr. Jayarama Pradeep

**Staff Coordinators**  
Mr. R. Sreekanth, Dr. M. Venkatesh

**Student Coordinators**  
Abinaya Sri T | Januna U | Christel Peeter R | Kaviya P | Ranya R | Deepika U | Dharani V

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 03881 / +91 99401 03882

**PIC: IEEE Event Poster**



4.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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OMR, Chennai - 119

COUNSELLING CODE : 1317

ARHA | NBA | A+ | NIRF | Cambridge

**IEEE** | Department of Electrical and Electronics Engineering  
in association with  
**IEEE POWER ELECTRONICS SOCIETY**  
Presents

last day to submit your video 25/12/2022

Scan here for Registration

**"A video contest conducted in Instagram"**

**E-Certificates will be provided to all the participants**

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
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**Patrons**  
Mrs. S. Jessie Priya M.Com.  
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Principal, St. Joseph's College of Engineering  
**Dr. C. Sreeksunth** M.A., M.B.A., Ph.D.  
Deans(Academics), St. Joseph's College of Engineering

**Convenor**  
Dr. T.V. Narmadha M.A., M.S.  
Professor & Head, L&E Dept.

**SBC Advisor**  
Dr. Jayarathna Pradeep M.A., M.S.  
Professor & Head, Soft Skills

**Staff Coordinator**  
Mr. R. Sreekanth M.A., M.B.A.  
Assistant Professor

**Student Coordinators**  
DIVYA LAKSHMI G | POOJASREE K | DHARANI V | ABHISITHA R | POORNAVIRASH T | NIVAS M

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact : 91 99401 04881 | 91 99401 04882

**PIC: IEEE Event poster**

The IEEE Power Electronics Society of St. Joseph's College of Engineering Conducted vidactic2.0, a video contest on Dec 25,2022. In this event all participants were took video of 1min under a technical topic. Each participant uploaded their video in google form, the video were posted in Instagram on Dec 25, 2022. Among all videos, the winner will be chosen by the amount of likes and their knowledge of explaining their content in 1min. E-certificates were given to the participants and winners.

5.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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IEEE | DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IEEE Women in Engineering Affinity Group presents  
IEEE SPAX sponsored  
**A TALK ON MY WIE JOURNEY**

**Speaker**  
**Ms. Priyadarshini Sashikumar**  
MENTOR - IEEE SB JEC | Associate Engineer - Harman  
Connected Services | Execom Member - IEEE MAS WIE

Register Here : <https://forms.gle/Y1W4vjTZWnQYH9>

6:00 pm IST to 7:00 pm IST

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jesula Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Dr. V. Valliyegam** M.A., M.A., Ph.D. Dean Academics, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar** M.A., M.A., Ph.D. Dean Academics, St. Joseph's College of Engineering  
**Dr. G. Sreekumar** M.A., M.A., Ph.D. Dean Academics, St. Joseph's College of Engineering

**Convener** Dr. T. V. Narayadas M.A., M.A., Ph.D. Professor & Head - I&E Affairs  
**SBC Advisor** Dr. Jayrama Pradeep M.A., M.A., Ph.D. Professor & Head - I&E Affairs  
**Staff Coordinators** Mr. S. Sreekanth M.A., M.A., Ph.D. Assistant Professor, Dr.M.Venmuthi M.A., M.A., Ph.D. Assistant Professor

**Student Coordinators**  
Abhinaya S1 T | Jasmuna U | Christel Feeris R | Kavya P | Ranya R | Deepika U | Dhruvan V

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: 91 99461 0480 / 91 99461 0482

PIC: IEEE Event poster

The first webinar session was conducted on 18th of December, 2022 between 6:00 pm and 7:00pm (IST), amazingly handled by Ms. Priyadarshini. Ms. Priyadarshini Sashikumar, Mentor of IEEE SB JEC, Execom Member in IEEE MAS WIE has given a talk about her IEEE experience. She discussed her experiences at IEEE during this session, as well as the challenges she encountered and how she overcame them. She also stressed to the audience how crucial communication skills are! She presented the material with incredibly clear explanations and engaged the audience with engaging questions. At the end of the webinar session, She handled the participants' queries and the participants made the session lively by their queries. E-Certificates were provided to all the participants via their respective mail Id. Totally 50 participants attended the session and were benefitted.

6.

*You Choose, We Do It*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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ARIA, NBA, NIF, Cambridge  
 IEEE, WIE

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
 IEEE Women in Engineering Affinity Group  
 presents  
**IEEE SPAX sponsored**  
**A TALK ON**  
**Impact of IEEE WIE in my career**

**Speaker**  
**Ms. Nandhitha Kalyanasundaram**  
 Secretary, IEEE WIE MAS

Register Here : <https://forms.gle/YV4UjjTZWNQYH9>

**Chief Patron**  
**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.  
 Chairman, St. Joseph's Group of Institutions

**Patrons**  
**Mrs. S. Jessie Priya** M.Com.  
 Managing Director, St. Joseph's Group of Institutions  
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 Executive Director, St. Joseph's Group of Institutions

**Dr. Vaddi Seshagiri Rao** M.E., M.B.A., Ph.D.  
 Principal, St. Joseph's College of Engineering

**Dr. V. Vallinayagam** M.E., Ph.D.  
 Dean Student Affairs, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar** M.E., Ph.D.  
 Dean Research, St. Joseph's College of Engineering  
**Dr. G. Sreekumar** M.E., M.Tech., Ph.D.  
 Dean Academics, St. Joseph's College of Engineering



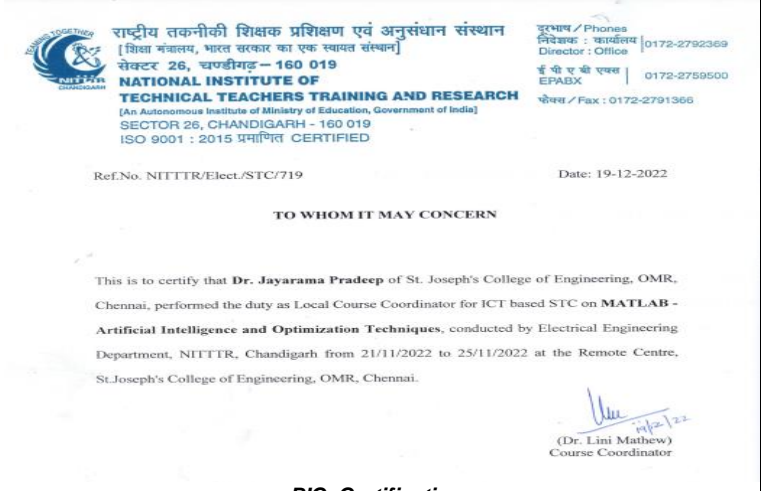

**Convenor**  
**Dr. T.V. Narmadha** M.A., Ph.D.  
 Professor & Head, Lab Affairs  
**SBC Advisor**  
**Dr. Jayarama Pradeep** M.E., Ph.D.  
 Professor & Head, Staff Affairs  
**Staff Coordinators**  
**Mr. B. Sreekanth** M.A., Ph.D. / **Dr. M. Venmathi** M.A., Ph.D.  
 Assistant Professor / Assistant Professor

**Student Coordinators**  
 Abhinaya Sri T | Jamsuna U | Christel Peeris R | Kaviya P | Ramya R | Deepika U | Dharani V

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PIC: IEEE Event poster

The second and the last webinar session was conducted on 19th of December, 2022 between 10:00 am and 11:00am (IST), amazingly handled by Ms.Nandhitha. Ms.Nandhitha Kalyanasundaram, Secretary,IEEE WIE MAS has explained about the awards that have been given out by IEEE WIE, some tips for explaining IEEE in interviews, how to be active in IEEE, how to connect with others, basic skills to shine in IEEE, how to use LinkedIn and to build networking, and information about the motivational figures in IEEE WIE were all covered in her talk. In order to inspire the junior IEEE attendees, she also displayed her resume. This gave the participants an excellent experience, and the session was appropriate for both IEEE and Non-IEEE participants because she began with a fundamental introduction and ended with some tips for achieving success in the IEEE. At the end of the webinar session, She handled the participants' queries and the participants made the session lively by their queries. E-Certificates were provided to all the participants via their respective mail Id. Totally 45 participants attended the session and were benefitted.

<p>7.</p>	 <p><b>Bangalore Institute of Technology</b> (Affiliated to VTU, Belagavi, Approved by AICTE New Delhi) Accredited by NAAC with "A+" Grade and NBA</p> <p><b>Certificate of Participation</b></p> <p>This is to Certify that Dr./Mr./Mrs./Ms. <b>SRIANANDA GANESH T. ST. JOSEPH'S COLLEGE OF ENGINEERING</b> has Participated in the Five Day's Virtual Faculty Development Programme on <b>"Electrical Vehicle Technologies-A Future Transportation Tool"</b> organised by Department of Electrical and Electronics Engineering from <b>28/11/2022 to 02/12/2022</b>.</p> <p>   <b>Mr. Akshay Kumar D</b> Co-ordinator       <b>Mr. Suresh H</b> Co-ordinator       <b>Dr. Sudha G</b> HOD       <b>Dr. J Prakash</b> Vice Principal       <b>Dr. Aswath M U</b> Principal   </p> <p><b>PIC: Certification</b></p>	<p>Our Faculty Dr.N.Chidambararaj, Mr. K.Aravindhhan &amp; Mr. SRIANANDA GANESH T. participated in the 5days Virtual FDP on "Electrical Vehicle Technologies –A Future Transportation Tool" organized by Department of Electrical and Electronics Engineering from 28/11/22 to 2/12/22 at Bangalore Institute of Technology.</p>
<p>8.</p>	 <p>राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान [शिक्षा विभाग, भारत सरकार का एक स्वायत्त संस्थान] सेक्टर 26, चण्डीगढ़ - 160 019 <b>NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH</b> [An Autonomous Institute of Ministry of Education, Government of India] SECTOR 26, CHANDIGARH - 160 019 ISO 9001 : 2015 प्रमाणित CERTIFIED</p> <p>दूरभाष / Phones: 0172-2792369 निदेशक : कार्यालय Director : Office ई पी ए सी एक्स EPACX   0172-2759500 फैक्स / Fax : 0172-2791366</p> <p>Ref.No. NITTTR/Elect./STC/719 Date: 19-12-2022</p> <p><b>TO WHOM IT MAY CONCERN</b></p> <p>This is to certify that <b>Dr. Jayarama Pradeep</b> of St. Joseph's College of Engineering, OMR, Chennai, performed the duty as Local Course Coordinator for ICT based STC on <b>MATLAB - Artificial Intelligence and Optimization Techniques</b>, conducted by Electrical Engineering Department, NITTTR, Chandigarh from 21/11/2022 to 25/11/2022 at the Remote Centre, St. Joseph's College of Engineering, OMR, Chennai.</p> <p>   <b>(Dr. Lini Mathew)</b> Course Coordinator   </p> <p><b>PIC: Certification</b></p>	<p>Our Faculty Dr.Jayarama Pradeep performed the duty as local course coordinator &amp; Dr.P.Anbarasean performed the duty as supporting faculty for ITC based STC on "MATLAB-Artificial Intelligence and Optimization Technologies" conducted by Electrical Engineering Department, NITTTR, Chandigarh from 21/11/22 to 25/12/22 at the Remote center, St.Joseph's college of Engineering, OMR, Chennai.</p>

9.



**PIC: Certification of Appreciation**

Our Faculty Mr.R.Elanthirayan for role of Reviewer in the IEEE madras section Technically sponsored 2022 fist international conference on computer power and communication (ICCCP'22) held at sri Sairam institute of technology, Chennai, from 14<sup>th</sup> dec to 16<sup>th</sup> dec 2022.




10.



**PIC: Entrepreneur Development program poster**

Our Electrical and Electronics Engineering department conducted Entrepreneur Development Program on “How to become a Successful Entrepreneur despite Struggles” on 3<sup>rd</sup> December 2022. The objective of this Entrepreneur Development Program talk is to help the students in strengthening his entrepreneurial motive and in acquiring skills and capabilities. Mr.C.Alexpandiyam, Founder and CEO, AP Interior and Modular Kitchen shared his project activity, market opportunities and strategies.



<p>11.</p>	 <p>Applied Soft Computing Volume 133, January 2023, 109937</p> <p>Robust energy management technique for plug-in hybrid electric vehicle with traffic condition identification</p> <p>C.N. Gnanaprakasm<sup>a</sup>, S. Meena<sup>b</sup>, M. Nivethitha Devi<sup>b</sup>, N. Shanmugasundaram<sup>c</sup>, S. Sridharan<sup>d</sup></p> <p>Show more</p> <p>+ Add to Mendeley Share Cite</p> <p><a href="https://doi.org/10.1016/j.asoc.2022.109937">https://doi.org/10.1016/j.asoc.2022.109937</a> Get rights and content</p> <p><b>PIC: Paper Screen shot</b></p>	<p style="text-align: right;"><b>Criteria 1</b></p> <p>Our Faculty Dr.S.Sridharan published paper title on “ Robust energy management technique for plug-in hybrid electric vehicle with traffic condition identification”, in Elsevier-Applied Soft Computing.</p>
<p>12.</p>	<p>Conferences &gt; 2022 Sixth International Conf.</p> <p><b>Comparison of SOH Prediction ML Technique for Electric Vehicles</b></p> <p>Publisher: IEEE Cite This PDF</p> <p>Jayarama Pradeep ; Sanda Sri Harsha ; R. Jenin Prabhu ; K Subramani ; G. Mahendran ; T. Selvaganapathi All Authors</p> <p>10 Full Text Views</p> <p><b>Abstract</b></p> <p>Document Sections</p> <p>I. Introduction</p> <p>II. Proposed Work</p> <p>III. ML Models</p> <p>IV. Results and Discussion</p> <p>V. Conclusion</p> <p>Authors</p> <p>Figures</p> <p><b>PIC: Paper Screen shot</b></p>	<p style="text-align: right;"><b>Criteria 1</b></p> <p>Our Faculty Dr.Jayarama Pradeep published paper title on “Comparison of SOH Prediction ML Technique for Electric Vehicles” in 2022 Sixth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC).</p>
<p>13.</p>	 <p><b>St. JOSEPH'S COLLEGE OF ENGINEERING</b> (An Autonomous Institution) St. Joseph's Group of Institutions OMR, Chennai - 119</p> <p><b>Circular</b></p> <p>Management and staff are happy to inform that Dr. V. R. Jayarama Pradeep, Professor &amp; Head, Department of Electrical &amp; Electronics Engineering has received a grant of Rs. 6,60,000/- for a project under the scheme of “Mathematical Research Impact Centric Support” (MATRICS)</p> <p>by Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India.</p> <p></p> <p>Title of the Project: <b>Analysis of Power Electronic Inverter and Drive Using Discrete Event System Approach.</b></p> <p>CHAIRMAN 171222</p> <p><b>PIC: Circular</b></p>	<p>Our Faculty Dr.Jayarama Pradeep has received a grant of Rs.6,60,000/- for a project under the scheme of “Mathematical Research Impact Centric Support” (MATRICS) by science and engineering and technology, government of india. Title of the project : analysis of power electronic inverter and drive using discrete event system approach.</p>

14.



**Criteria 1**

- A patent titled “Design web server to client communication for web usage data analysis” is published by Dr.S.kannadasan, V.Renganayagi, Dr.Meenakshisharma,**Dr.S.Sridharan**,Dr.jegajothi,Dr.A.Pandiyan, Mrs.R.Indhuja, Dr.Sultanuddin S J on 02/12/2022.
- A patent titled “AI and machine learning based early detection, Prediction and classification of brain tumors and segmentation of its stages using Image Processing” is published by Dr.Amit Khare, Mohamed J.Saadh, **Mr.Sivakumar S**, Dr.Papiya Debnath, Dr.Manash Chanda, Dr.Sheshang Degadwala on 09/12/2022
- A patent titled “IOT and AI based renewable energy management system for future smart city” is published by Talari Manohar, **Dr.P.Anbarasan**, DR.G.Prakash, DR. Mohammed Salim Khan, DR.A. Baradeswaran, DR.Shaik.Nagul on 23/12/2022.
- A patent titled “Automatic Penalty on Traffic Rules Violations Based on Block Chain and Machine Learning” is published by Dr.Kavitha, Dr. Hemlata, G.Balamuralikrishnan, **Mr. K. Aravindhan, Dr. Chidambararaj Natarajan** P.Dineshkumar, Dr. V. Devi, Pares Parekh on 23/12/2022.
- A patent titled “AI & IOT Based Smart Agriculture” is published by Dr.V.Sesha Bhargavi, Dr. S. Joshua Davidson, Dr. V L Raja, Selvaganesh R, **Dr.P.Velmurugan**, Dr.J.Senthil Murugan, C.Sankari, P. Anandha Prakash on 23/12/2022.
- A patent titled “Water Management & Leakage Detection Problems Solutions Using IOT” is published by Dr. Robin Rohit. V, Mrs. Nisha. F, Dr. F. R. Shiny Malar, **H. Umesh prabhu**, Dr.V.Devi, S. Praveena Rachel Kamala, T.R.Chenthil, Dr.K.Sivakumar on 30/12/2022.
- A patent titled “Detect & Prevent Malware in Cyber Security using AI and DL” is published by Dr. S. Srinivasan, Shobana. G, Dr.R.Kalaivani, **R. Srekanth**, Dr.Swagata Sarkar, T. P. S. Kumar Kusumanchi, Dr.R.P.Narmadha, T.R.Chenthil on 30/12/2022.

15.



PIC: Club event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) SOCIAL AWARENESS CLUB organized a technical event “TECHNOPHILE” on 07/12/2022. This exclusive event started at 01:40AM with all the members of our club. The event was started with “TAMIL THAI VAZHTHU”. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event.

Student Name	Year	Position
Mohana Santhosh M Nandhi Vardhan Reddy R	III- B	I
Venkatesh Ruthiharsan R	III - C	II
Charlton Christ W Bharathraj M	III- A	III

16.



PIC: Club event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) ELECTRICAL CLUB organized a technical event “FESTEMBER” on 08/12/2022. This exclusive event started at 1.40-3.00 PM with all the members of our club. The event was started with” TAMIL THAI VAZHTHU”. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event.

STUDENTS NAME	YEAR	POSITION
MADHU MALINI .M K & JEEVITHA R	III	I
DEEPIKA U & HARIPRIYA M	III	II
JOEL EBINEZAR & PRASANNA KUMAR	III	III

17.



PIC: Placement poster



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### 1. ATAL FDP EVENT:

St. JOSEPH'S IN ASSOCIATION WITH AICTE HOSTS FDP ON "DIVERSE APPLICATIONS OF RESEARCH PARADIGMS IN AI"	Report
	<p>The Department of Electronics and Communication Engineering of St. Joseph's College of Engineering, OMR, Chennai organized a two-week Faculty Development Programme on "Diverse Applications of Research Paradigms in AI" from 5<sup>th</sup> December to 16<sup>th</sup> December 2022, sponsored by AICTE ATAL. The objective of ATAL is to impart quality Continuous Professional Development Program for faculty. There are fourteen sessions in all. The first six sessions were held online (5<sup>th</sup> – 11<sup>th</sup> December 2022), with the following eight sessions took place offline (12<sup>th</sup> – 16<sup>th</sup> December 2022).</p> <p>On 12<sup>th</sup> December, the inaugural programme of offline sessions at St. Joseph's College of Engineering began with Thamizhthai Vazthu, followed by the welcome address rendered by our head of the department Dr. B. Victoria Jancee. Then, an outline of the programme was given by the Program Coordinator Dr. R. Avudaiammal, Professor of ECE department. A hearty welcome was extended to our chief guest, Dr. R. Vidhya, Professor and Director for Survey Training and Research. The presidential address was delivered by Dr. Vaddi Seshagiri Rao, Principal of St. Joseph's College of Engineering. The chief guest Dr. R. Vidhya underlined the importance of AI in many sectors in her inaugural speech. She emphasized the importance of AI in a variety of sectors and also covered numerous AI applications and mentioned the booming fields in which AI plays a key role. The Inaugural session was concluded with a vote of thanks proposed by Dr. J. Martin Leo Manickam, Professor of ECE department.</p> <p>This FDP aimed at channelizing the professional expertise of the faculty members and at enhancing the essential life skills to make a meaningful and satisfying life as a faculty</p>





You Choose, We Do It

# St. JOSEPH'S COLLEGE OF ENGINEERING (An Autonomous Institution)

Department of Electronics and Communication Engineering



**TWO WEEKS**

**ATAL Hybrid Faculty Development Program**  
on  
**Diverse Applications of Research Paradigms in AI**  
(05.12.2022 to 16.12.2022)

Sponsored and Approved By AICTE

## WEEK 1 - ONLINE



Prof. P. K. Biswas  
Prof., IIT Karagpur.  
DL FOR IMAGE PROCESSING.  
Session 1 - 05.12.2022



Dr. R A Alagu Raja  
Asst.Prof., Dept. of ECE,  
Thiagarajar College of Engg.,  
Madurai.  
DL FOR SATELLITE IMAGE  
PROCESSING.  
Session 2 - 06.12.2022



Dr. Syed Ibrahim S P  
Prof., Dept. of CSE, VIT,  
Chennai.  
MALWARE ANALYTICS USING DL  
Session 3 - 07.12.2022



Arockia Praveen J B  
Machine Learning Engineer, Optisol  
Business Solutions, Chennai.  
INTERPRETABLE MACHINE LEARNING  
Session 4 - 08.12.2022



Dr. Deepak Garg  
Dean, School of CSE and Tech,  
Bennett University, Noida.  
DL FOR DATA  
SCIENCE AND PATTERN  
RECOGNITION.  
Session 5 - 09.12.2022



Dr. Ram Bilas Pachori  
Prof., Dept. of Elect. Engg., IIT  
Indore.  
ML FOR EEG SIGNAL  
PROCESSING.  
Session 6 - 10.12.2022

member. The Online sessions were held through Zoom meetings. Experts from various parts of India like IIT Kharagpur, Indore, Noida, Madurai and Chennai were a part of our program and had delivered their valuable lectures as part of this FDP. They discussed the relevance of neural networks, the fascination that surrounds them, and their significance in the present modern trends. This FDP gives an opportunity for the participants to gain insights into the fundamentals of Artificial Intelligence, Machine Learning concepts and Deep Learning architectures for various applications. Participants from various institutions in and around Chennai were exposed to the ML and DL technologies along with the hands-on session of Pytorch and Tensor flow platform. Participants who had successfully completed the FDP were awarded with the Certificates.



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**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
Department of Electronics and Communication Engineering

**TWO WEEKS**  
ATAL Hybrid Faculty Development Program  
on  
Diverse Applications of Research Paradigms in AI  
(05.12.2022 to 16.12.2022)

Sponsored and Approved By AICTE

**WEEK 2 - OFFLINE**



Dr. Vidya, Prof, IRS,  
Anna University.  
REMOTE SENSING DATA ANALYSIS  
USING ADVANCED METHOD.  
Session 7 - 12.12.2022



Dr. V. Shanmuganeethi  
Professor & Head  
TEACHING LEARNING  
PSYCHOLOGY & LIFE SKILLS.  
Session - NITTTR 12.12.2022



Dr. G. Janardhanan  
PROFESSOR & HEAD  
NEP & RESEARCH METHODOLOGIES  
Session - NITTTR 12.12.2022



Mr. Mohanraj Vengadachalam  
Machine learning Lead, Standard  
CHARTERED BANK, CHENNAI  
DL FOR AUTOMOTIVES  
Session 8 - 13.12.2022



Dr. V. Masilamani  
Associate Professor & Head, IIITDM,  
Kancheepuram  
DL FOR IMAGE QUALITY METRIC  
ASSESSMENT  
Session 9 - 13.12.2022



Mr. Arockia Praveen J B  
PYTORCH FOR DEEP LEARNING &  
COMPUTER VISION  
(HANDS ON)  
Session 10 & 11- 14.12.2022



Dr. V Sathiesh Kumar  
Asst. Prof, Dept. of Electronics Engg., I-ENABLED SENSING &  
DECISION MAKING FOR IoT SYSTEMS (HANDS ON)  
IMAGE AND TEXT CLASSIFICATION USING TENSORFLOW.  
Session 12&13 - 15.12.2022



Dr. Ram Prasad.  
Asso. Prof,  
School of Computing and  
Data Science, Sai University.  
RESEARCH PERSPECTIVES IN DL.  
Session 14 - 15.12.2022



## 2. Publications:

The following staff members have published the research papers during December in Journal at International Level

S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Publication
1.	Dr. D.LAKSHMI	Transfer Learning Supported Accurate	Part H- Journal of	<a href="https://doi.org/10.1177/">https://doi.org/10.1177/</a>	December



		Assessment of Multiclass Cervix Type Images	Engineering in Medicine	09544119221143441	2022
2.	Dr. S. RAJESHKANNAN	Faster Region Based Convolutional Neural Network for Skin Lesion Segmentation	Intelligent Automation and Soft computing	vol.36, no.2	December 2022

## 2. FDP Attended by Faculty:

The following staff members have attended the Faculty Development Program in the month of December at National Level


S. No.	Name of the Staff	Title of the FDP	Host Institution	Duration	Date of Completion
1	DR S.AGHALYA	Kinematic analysis of Robot mechanisms- Fundamentals	IIIT, Kancheepuram	6 days	9.12.2022 to 15.12.2022
2	DR S.AGHALYA	Machine Learning for Data science using Python	NIT, Warangal	5 days	19.12.2022 to 28.12.2022
3	DR. J. MARTIN LEO MANICKAM	Insights into AI and ML for Image Processing Applications	NIT, Warangal	5 days	28.11.2022 to 02.12.2022
4	DR.R.AVUDAIAMMAL	Insights into AI and ML for Image Processing Applications	NIT, Warangal	5 days	28.11.2022 to 02.12.2022
5	DR. D.LAKSHMI	Societal Applications of Machine Learning	Sri Vishnu Engineering College for Women - Bhimavaram	5 days	26.12.2022 to 30.12.2022
6	DR. NIRUBAN.R	ATAL - Diverse Applications of Research Paradigms in AI	Hybrid Mode , ATAL , AICTE & St. Joseph's College of Engineering	11 days	05.12.2022 to 16.12.2022
7	MRS. P. THENMOZHI	Artificial intelligence and Optimisation techniques	NITTTR Chandigarh	5 days	21.11.22 to 25.11.22
		Emerging Research Trends in Computing Technologies	Dr. M.G.R. Educational and Research Institute, Maduravoyal	6 days	28.11.22 to 2.12.22

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail					
1	Webinar /FDP / workshop attended	S.No	Faculty Name	Webinar /FDP / workshop attended	Conducting agency	Period	Link
		1.	Dr.P Deepa	“Skill Development Program on IPR, Copyrights & Patents Filling and Pathway for Entrepreneurship”	M.Kumarasamy College of Engineering, Karur, Tamilnadu, India.	21.11.2022 to 25.11.2022	<a href="https://drive.google.com/file/d/1WqdPMEMNXXTmb85sk7wBU-G2y3FjbJf4/view?usp=share_link">https://drive.google.com/file/d/1WqdPMEMNXXTmb85sk7wBU-G2y3FjbJf4/view?usp=share_link</a>
2.	<b>Patent</b>	S.No	Faculty Name	Publication Date	Title	Link	
		1.	Dr.S.Meena	16/12/2022	A Novel Method For Preparing Data For Processing By Artificial Intelligence And Machine Learning Systems	<a href="https://drive.google.com/file/d/1Pi33QWvzNFTV5QW6hXsF-JZuCuDSX0A0/view?usp=share_link">https://drive.google.com/file/d/1Pi33QWvzNFTV5QW6hXsF-JZuCuDSX0A0/view?usp=share_link</a>	
		2.	Mrs.R. Angel Sujitha	9/12/22	Cloud Based Technique Integrated With Artificial Intelligence To Predict The Heart Diseases In Advance And Avoiding The Sudden And Massive Heart Attacks	<a href="https://drive.google.com/file/d/119mFJuB10VKKIBSD4gcCHLLVLnPQib-F/view?usp=share_link">https://drive.google.com/file/d/119mFJuB10VKKIBSD4gcCHLLVLnPQib-F/view?usp=share_link</a>	

3.	Workshop/ STTP Organised	S.No.	Faculty Name	Workshop/ STTP Organised	Conducting agency	Date	Link
		1.	Dr. V. Vijayan And Mr. D. Sankaran	Workshop On robot Control Design	RETECT pvt Ltd	16.12.2022	<a href="https://drive.google.com/file/d/1hsInOgfdPT-2LcJSdmXhQtXIfCOizTr/view?usp=share_link">https://drive.google.com/file/d/1hsInOgfdPT-2LcJSdmXhQtXIfCOizTr/view?usp=share_link</a>

### DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution																				
1	 <p><b>FDP certificates</b></p>	<p><b>Online FDP Attended by Faculty</b></p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Title of the topic</th> <th>Name of the Staff</th> <th>Conducted By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>5 days FDP on Data Science '22 Contemporary Tools and Techniques</td> <td>Dr. L. Sherly Puspsha Annabel</td> <td>Department of Information Science and Engineering, Nitte Meenakshi Institute of Technology, Bengaluru, India</td> <td>12-12-22 to 16-12-22 (5 days)</td> </tr> <tr> <td>2.</td> <td>Wipro Certified Faculty Program</td> <td>J. Divya</td> <td>Talent Next, Wipro</td> <td>07-12-22 to 23-12-22</td> </tr> <tr> <td>3.</td> <td>FDP on Diverse Applications of Research Paradigms in AI</td> <td>Ms. Kripa Sekaran</td> <td>ATAL, St. Joseph's College of Engineering, Chennai</td> <td>5-12-22 to 16-12-22 (11 days)</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	5 days FDP on Data Science '22 Contemporary Tools and Techniques	Dr. L. Sherly Puspsha Annabel	Department of Information Science and Engineering, Nitte Meenakshi Institute of Technology, Bengaluru, India	12-12-22 to 16-12-22 (5 days)	2.	Wipro Certified Faculty Program	J. Divya	Talent Next, Wipro	07-12-22 to 23-12-22	3.	FDP on Diverse Applications of Research Paradigms in AI	Ms. Kripa Sekaran	ATAL, St. Joseph's College of Engineering, Chennai	5-12-22 to 16-12-22 (11 days)
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3.	FDP on Diverse Applications of Research Paradigms in AI	Ms. Kripa Sekaran	ATAL, St. Joseph's College of Engineering, Chennai	5-12-22 to 16-12-22 (11 days)																		



## DEPARTMENT OF MECHANICAL ENGINEERING




Sl No	Name of the Activity	Remarks
1	Paper Published:	<ul style="list-style-type: none"> <li>➤ “Influence of MQL on performance evaluation of EN19 steel under centreless grinding” , <b>NE Arun Kumar</b>, A Suresh Babu, <b>M Subramanian</b>, <b>N Arunkumar</b>, Materials and Manufacturing Processes,37(14).</li> </ul>
2	Prize Won by students	<ul style="list-style-type: none"> <li>➤ <b>Damodharan A &amp; Aswin R J</b> of III Mech A won second place in the event “WEB DECORZ” organized by RMK College of Engineering</li> <li>➤ <b>Chandru S</b> of III Mech A won won second place in the event “Mr.DESIGNER” organized by RMK College of Engineering</li> </ul>

## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	<b>FDP/Workshop/Conference</b>	<ol style="list-style-type: none"> <li>1. Dr. P. Krishnan, Dr. G. Sasikumar attended International Faculty Development Program on “Nanomaterials For Sustainable Future” conducted by “GMR institute of Technology, Rajam, Andhra pradesh” held from 12.12.22 to 16.12.22.</li> <li>2. Dr. G. Murugan, Dr. V. Swarnalatha, Dr. P. Saravanan, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Ms. S. Savitha, Dr. K. Jayamoorthy, Dr. B. Subash, Dr. S.M. Prakash, Dr. G. Sasikumar, Dr. T.L. Ajeesha, attended International webinar on “Solar Photovoltaics for Sustainable Future” conducted by “Bharat Institute of engineering and technology and Indian ceramic society, Hyderabad Chapter” on 24.12.22</li> <li>3. Dr. S. Suresh, Dr. N. Punitha, Mr. S. Kaleel Mohamed Ibrahim attended International webinar on “ Ammonia as a Potential Energy Vector for Future Energy Application ” conducted by “Department of Micro and Nanoelectronics, Division of physics, Saveetha Institute of science and Humanities.” on 26.12.22.</li> <li>4. Dr. S. Kiruba attended International webinar on “Importance of Preparedness for Educators” conducted by “Bharat Institute of engineering and technology and Indian ceramic society, Hyderabad Chapter” on 31.12.22</li> </ol>
2	<b>Value added Courses/Courses other than VAC</b>	<ol style="list-style-type: none"> <li>1. Mr. S. Kaleel Mohamed Ibrahim completed Udeemy course on “Poultry Farming Broiler Farming Crash Course” on 04.12.22</li> <li>2. Dr. A. Arulmozhi completed Udeemy course on “Dieting - Nutrition - Weight Loss Tips</li> </ol>

		for Good Healthy Life” on 05.12.22 3. Mr. S. Kaleel Mohamed Ibrahim completed Udemy course on “”Plumbing &Hvac Systems In Chillers Water Treatment A-Z ” on 05.12.22
3	<b>Competitions attended by students</b>	1. Mr. K. Praveen of I ECE-B has attended the workshop on “Capital Management – Enantra ” conducted by College of Engineering, Guindy, Anna University on 02.12.22
4	<b>Publications(only published) details</b>	1. Dr. K. Sathesh Kumar published a paper titled “Studies on the DFT calculations and molecular docking of versatile molecular sensor 1-(6-Aminopyridin-2-yl)-3-(4-nitrophenyl) urea” in the journal “Chemical Physics Impact”, 6 (2023) 100139. 2. Dr. B. Subash and Dr. K. Jayamoorthy published a paper titled “Heterojunction of Bentonite Clay supported Bi <sub>2</sub> O <sub>3</sub> /ZnO composite for the detoxification of azo dyes under UV-A light illumination” in the journal “Chemical Physics Impact”, 6 (2023) 100152

## DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	Value added Courses/Courses other than VAC	<ul style="list-style-type: none"><li data-bbox="1283 233 1976 321">● Conducted Two days workshop on <b>Building modeling using REVIT software</b> for III year students on 11-01-2023 &amp; 12-01-2023</li></ul>   <ul style="list-style-type: none"><li data-bbox="1283 1190 1934 1278">● Conducted One day workshop on <b>Introduction to REVIT software and 3D printing</b> for II year students on 23-01-2023</li></ul> 

		
2.	<b>Publications (only published) details</b>	<ul style="list-style-type: none"> <li>• <b>Dr.K.Vijai</b> has published a paper titled “A Study on flexural behaviour of ferrocement slabs using foamed concrete” in International Journal of Structural Engineering, Vol 13, issue 1, pp 63-79, Jan 2023. <b>(Web of Science and Scopus Indexed)</b></li> </ul>
3.	<b>Other activities (if any)</b>	<ul style="list-style-type: none"> <li>• <b>Mr.S.P.Senthil Kumar/ASP</b> has completed a online course on <b>Quantity Surveying Building Estimation BBS with Excel &amp; CAD</b> - in Udemy</li> <li>• MoU signed with M/s Caddam Technologies</li> </ul>

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	A one Day event on “ <b>Design the best</b> ”	<b>Date</b> : 21/01/2023

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**St. Joseph's College Of Engineering**  
 (An Autonomous Institution)  
 St. Joseph's Group of Institutions  
 Jeppiaar Educational Trust  
 OMR, Chennai-119

Counselling Code: 1317

Department of Computer Science & Engineering  
 &  
 Artificial Intelligence & Data Science  
**Eye On Designs club organizes**  
**"Design The Best"**  
 Theme: Republic  
 (In Remembrance of Republic Day)

Registration Link: <https://forms.gle/gic5rdp1keFKNTRM8>

Venue : Placement block (Hazel hall)      Date : 21/01/2023  
 Time : 9-10 a.m.

**CHIEF PATRONS**  
 Dr. B. Biju Manoharan M.A, M.S.A., Ph.D.      M. B. Dhanu Sekar M.Sc.  
 Managing Director      Director  
 St. Joseph's Group of Institutions      St. Joseph's College of Engineering      St. Joseph's Group of Institutions

**PATRONS**  
 Dr. V. Valluvanayagam, M.Phil., Ph.D.      Dr. A. Chandira Sekar, M.E., Ph.D.      Dr. G. Sreelakshmi, M.Sc., M.Tech., Ph.D.  
 Dean Student Affairs      Dean Research      Dean Academic

**CONVENORS**  
 Dr. A. Chandira Sekar, M.E., Ph.D.      Dr. R. Pugalathy, M.E., Ph.D.      Dr. G. Manikandan, M.E., Ph.D.  
 HoD-CSE Staff Affairs      HoD-CSE Lab Affairs      HoD-CSE Student Affairs

**STAFF CO-ORDINATOR**      **STUDENT CO-ORDINATORS**  
 Mrs. P. N. Jagdish, M.E. (Ph.D.)      Mr. Balagopal T      Mr. Jagdeep Venkatesh R  
 Assistant Professor      Mr. Abhishek S      Mr. Suran Chandra V  
 Mrs. Jeyanthi Mageshwaran D



**Venue** : ADS Smart room

**Nature of Event** : Remembrance of Republic Day

**Participants** : Engineering CSE II & III year students

**Organized by** : Eye on Designs Club

**Objective:**

- To get exposure on Poster designing softwares like (FIGMA, Adobe photoshop, canva)

**Outcome:**

- Gained knowledge about the fundamentals of poster design.
- Provide students with an opportunity to learn by doing, in turn strengthening the learning.
- Effective way for students to draw and maintain their attention on topics and to maintain their interest.

**DEPARTMENT OF ELECTRICAL AND ELECTROICS ENGINEERING**

S.No	Events	Remarks
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1.



PIC: IEEE Event poster

The IEEE Power Electronics Society of St. Joseph's College of Engineering conducted the **2023 PELS Office Bearers Meet** on 6<sup>th</sup> Jan 2023, a virtual gathering. R. Elanchezhiyan, (the immediate past chairperson of PELS SJCE SB) and Divya Lakshmi G ( the immediate past treasure of PELS SJCE SB) joined us in this event and shared their prior experiences with us. They provided the new office bearers with some fantastic advice. The gathering came to a close as everyone exchanged kind words and advice.

2.



PIC: IEEE Event photo

On January 05, 2023, the IEEE SJCE SB hosted the Student Branch Officers Meeting. Mr. R. Sreekanth, IEEE SB Counsellor, and Ms. Jayarama Pradeep, IEEE SB Advisor, contributed as faculty coordinators for the event. In which the office bearers were formally placed into their roles. IEEE SJCE SBC Advisor Ms. Jayarama Pradeep paid the tribute. To enhance the SB, the Student Branch has taken a New Initiative in organizing separate teams for different domains.

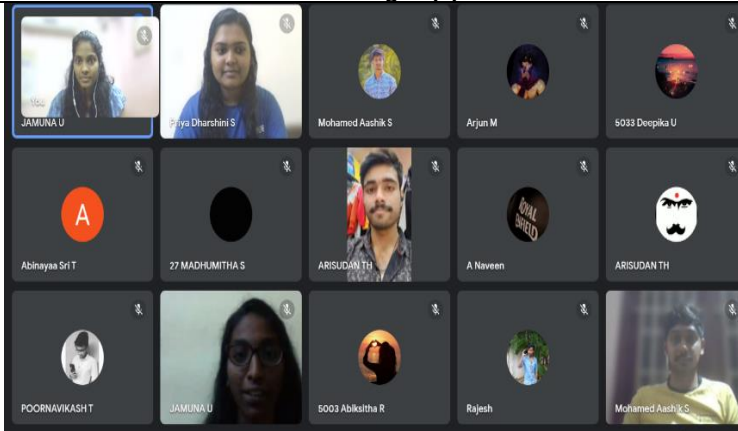
3.



**PIC: Students group photo**

IEEE Student Branch Chapter of St. Joseph's College of Engineering organized a meeting for the conference team office bearers of 2023. It was held on January 9, 2023. Office bearers of the conference team around seven members of St. Joseph's college of engineering student branch attended the meet. They discussed about the upcoming conference and their plan of action for this year

4.



**PIC: IEEE event screenshot**

IEEE SJCE SB conducted an orientation for the Website Team of IEEE SJCE SBC on 9 January 2022 at .00 PM. The meeting was held in coordination with the Publicity and Special Day teams, and it focused on discussing the year's plans as well as adopting new ideas proposed by our SB. Various ideas were gathered and noted, with the intention of implementing them in the future.

5.



**PIC: IEEE Event photo**

IEEE Women in Engineering under St Joseph's College of Engineering Student Branch Chapter organised WIE OFFICE BEARERS meet on January 06, 2023, at 1:40 pm. The event was conducted in Offline Mode. There were a total of 15 participants. The event was organised by Mr.Sreekanth. The notable participants were Ms. Jamuna U(Chairperson of IEEE WIE SJCE SB-2023 along with the affinity group members include Ms. Kaviya, Ms. Madhumalini, Ms. Adirai, Ms. Kanimozhi G, Ms.Harini, Ms. Madhumitha. Ms. Abinayaa Sri T( immediate past Chairperson of IEEE WIE SJCE SB) and Mr. Mohammed Aashik S (immediate past Chairperson of IEEE SJCE SB) also joined with us and shared their experiences. Through this meeting, We discussed the basic criteria about WIE and our plans and the betterment we could make inside our SB to meet out the vision and mission of IEEE WIE.

6.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
OMR, Chennai - 119

**IEEE** St. Joseph's College of Engineering, St. Joseph's Group of Institutions  
IEEE Robotics & Automation Society  
RAS Office Bearers Meet-2023

DEPARTMENT OF  
ELECTRICAL AND ELECTRONICS ENGINEERING  
*in association with*  
IEEE ROBOTICS AND AUTOMATION SOCIETY  
*presents*  
**RAS OFFICE BEARERS MEET-2023**

1.45pm To  
3.00pm

**VENUE: Smart Room**

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com.  
Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc.  
Executive Director, St. Joseph's Group of Institutions

**Convenor**  
Dr. V. Vallinayagam M.Phil., Ph.D.  
Dean Business Affairs, St. Joseph's College of Engineering

**SBC Advisor**  
Dr. Jayarama Pradeep M.T., Ph.D.  
Professor & Head, Staff Editors

**Staff Coordinator**  
Mr. R. Sreekanth M.E., Ph.D.  
Assistant Professor

**Student Coordinators**  
Aparna | Rakshit Roshan | Keerthana | Balaji | Gokul Kumar | Achaya | Sujitha

**\*For Admissions: visit [www.sjce.sjgoinstitutions.ac.in](http://www.sjce.sjgoinstitutions.ac.in) / [www.srasrobotstechnology.ac.in](http://www.srasrobotstechnology.ac.in) or contact: +91 99401 04581 / +91 99401 04582**

**PIC: IEEE Event poster**

IEEE Robotics and Automation Society under St Joseph's College of Engineering Student Branch Chapter organised RAS OFFICE BEARERS meet on January 06, 2023, at 1:40 pm. The event was conducted in Offline Mode. There was a total of 15 participants. The event was organised by Mr. Sreekanth. The notable participants were Ms. Aparnaa G(Chairperson of IEEE RAS SJCE SB-2023 along with the society members include , Mr.Rakshit Roshan, Ms. Keerthana, Mr. Gokul Kumar, Mr. Nithin Joel, Mr. Balaji, Ms .Achaya, Ms. Sujitha, Ms. Abina S( immediate past Chairperson of IEEE RAS SJCE SB) also joined with us and shared their experiences. Through this meeting, We discussed the basic criteria about RAS and our plans and the betterment we could make inside our SB to meet out the vision and mission of IEEE RAS.



7.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
OMR, Chennai - 119  
Counselling Code :1317

ARIIA NEA AICTE NIRF Cambridge

IEEE St. Joseph's Group of Institutions  
St. Joseph's Group of Institutions  
St. Joseph's Group of Institutions

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
in association with  
**IEEE INDUSTRY APPLICATIONS SOCIETY**  
PRESENTS  
**IAS OFFICE BEARERS MEET-2023**

13

1.45PM TO 3.00PM

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com.  
Managing Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering  
Convenor Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - Staff Affairs  
SBC Advisor Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs  
Staff Coordinator Mr. R. Sreekanth M.A., Ph.D.  
Assistant Professor

**Student Coordinators**  
IAS Team

\*For Admissions, visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882.

IEEE Industrial Automation Society under St Joseph's College of Engineering Student Branch Chapter organised IAS-OFFICE BEARERS meet on January 13, 2023, at 1:40 pm. The event was conducted in Offline Mode. There were a total of 8 participants. The event was organised by Mr.R.Sreekanth. The notable participants were Mr.S.Karthikeyan(Chairperson of IEEE IAS SJCE SB-2023 along with the group members include Mr.M.Shyam sundar, Ms.D.Kavipriya, Ms.S.Prasanna Gnanambiga, Ms.Vijayalakshmi, Mr.K.Sanjai, Mr.Kailash. Through this meeting, We discussed about the upcoming events and future developments in IAS through new ideas, and our plans to betterment we could make inside our SB to meet out the vision and mission of IEEE IAS.

8.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
OMR, Chennai - 119

ARIIA NEA AICTE NIRF Cambridge

IEEE St. Joseph's Group of Institutions  
St. Joseph's Group of Institutions  
St. Joseph's Group of Institutions

**மின் மற்றும் மின்னணு பொறியியல் துறை உடன் இணைந்து IEEE SJCE SB மாணவர் மற்றும் பெருமையுடன் வழங்கும் ஒருங்கிணைப்பாளர்கள் கலந்துரையாடல்**

நிகழ்ச்சி தேதி: 06.01.2023  
நேரம்: 1.40 to 3.00pm

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com.  
Managing Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering  
Dr. V. Vallinayagam M.Phil., Ph.D.  
Dean (Students Affairs), St. Joseph's College of Engineering  
Dr. A. Chandra Sekar M.E., Ph.D.  
Dean (Research), St. Joseph's College of Engineering  
Dr. G. Sreekumar M.Sc., M.Tech., Ph.D.  
Dean (Student Academic), St. Joseph's College of Engineering

**Convenor** Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - IAS Affairs  
**SBC Advisor** Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs  
**Staff Coordinator** Mr. R. Sreekanth M.A., Ph.D.  
Assistant Professor

**Student Coordinators**  
Mani Sha N | Jayasruthi R V | AkshayaKrishnen | Amirtha Varshini M | Godson S V Noble

\*For Admissions, visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882.

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a office bearer meet “ஒருங்கிணைப்பாளர்கள் கலந்துரையாடல்” related to the development of the tamil mandram development. The event held .on 6th January 2023 between 1:40 pm to 3:00pm about the . The student coordinators for this event are Mani Sha N , Akshaya Krishnan , Amirtha Varshini , Jaya Shruthi , Godson S V Noble.

**PIC: IEEE Event poster**

9.

*You Choose, We Do It*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 (An Autonomous Institution)  
 St. Joseph's Group of Institutions  
 OMR, Chennai - 119

ABITA NTA NIRF Cambridge

IEEE

மின் மற்றும் மின்னணு பொறியியல் துறை  
 உடன் இணைந்து  
**IEEE SJCE SB மாணவர் மன்றம்**  
 பெருமையுடன் வழங்கும்  
**சொல்லடை**  
 ---சொல் வினையாட்டுப் போட்டி---

உங்கள் பதிவுகளை சமர்ப்பிக்க...  
<https://bit.ly/Solladai>

தேதி : 30/01/2023  
 நேரம் : 1:40 to 3:00 pm

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --  
**Chief Patron**  
 Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
 Chairman, St. Joseph's Group of Institutions

**Patrons**  
 Mrs. S. Jessie Priya M.Com., Managing Director, St. Joseph's Group of Institutions  
 Mr. B. Shashi Sekar M.Sc., Executive Director, St. Joseph's Group of Institutions

Dr. V. Vallinayagam M.Phil., Ph.D., Dean (Student Affairs), St. Joseph's College of Engineering  
 Dr. A. Chandra Sekar M.E., Ph.D., Dean (Academics), St. Joseph's College of Engineering  
 Dr. C. Sreekumar M.Sc., M.Tech., Ph.D., Dean (Academics), St. Joseph's College of Engineering

**Convenor**  
 Dr. T.V. Narmadha M.E., Ph.D., Professor & Head, LAB Affairs

**SBC Advisor**  
 Dr. Jayarama Pradeep M.E., Ph.D., Professor & Head, Staff Affairs

**Staff Coordinator**  
 Mr. R. Sreekanth M.E., Ph.D., Assistant Professor

**Student Coordinators**  
 Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

PIC: IEEE Event poster

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a riddle event 'சொல்லடை' related to Tamil Speech on 30th - January 2023 between 1:40 pm to 3:00 pm. Overall, 35 people registered through the registration form and 25 of them participated in the event and best three were given winners' certificates and the others were provided with participation certificates. The first place goes to Linda and Jamuna , second place goes to Sivakumar and Kathiravan , third place goes to Kaviya and Keerthana . The student coordinators for this event are Deepika U ,Jayavarshini M J , Abinaya Priya R A , Shiva D ,Sunil Kumar M.

10.

*You Choose, We Do It*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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 St. Joseph's Group of Institutions  
 OMR, Chennai - 119

IEEE Robotics & Automation Society

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
 in association with  
 IEEE ROBOTICS AND AUTOMATION SOCIETY  
 presents  
**MEGAMIND**

30 January 2023  
 6:00 P.M to 7:00 P.M

Open for all 2nd years  
<https://forms.gle/E6mEIVtDHCTfYHRDA>

E - Certificates will be provided

**Chief Patron**  
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 Chairman, St. Joseph's Group of Institutions

**Patrons**  
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 Dr. A. Chandra Sekar M.E., Ph.D., Dean (Academics), St. Joseph's College of Engineering  
 Dr. C. Sreekumar M.Sc., M.Tech., Ph.D., Dean (Academics), St. Joseph's College of Engineering

**Convenor**  
 Dr. T.V. Narmadha M.E., Ph.D., Professor & Head, LAB Affairs

**SBC Advisor**  
 Dr. Jayarama Pradeep M.E., Ph.D., Professor & Head, Staff Affairs

**Staff Coordinator**  
 Mr. R. Sreekanth M.E., Ph.D., Assistant Professor

**Student Coordinators**  
 Aparnaa | Rakshit Roshan | Keerthana | Balaji | Gokul Kumar | Achaya | Sujitha

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882

PIC: IEEE Event poster

Megamind was organized by IEEE SJCE SBC under IEEE Robotics and Automation Society for the college students. The event was conducted in Google meet It is a amazing debating event Conducted for students to make them to know about world politics and a geopolitical view,conducted on on 27th January 2023. Over 20 students participated in it and are benefited. E-Certificates are distributed to the participants. Student Coordinators G.Aparnaa , S.Keerthana, R.Gokul Kumar,V.Rakshit Roshan, B.Santhosh ,T.Sujitha coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor."



11.

**Frog Tastic**

Date: 30-01-2023  
Mode: ONLINE

*E-Certificates will be provided to all the participants*

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com  
Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc.  
Executive Director, St. Joseph's Group of Institutions

**Dr. V. Vallinayagam** M.A., M.B.A., Ph.D.  
Dean (Students Affairs), St. Joseph's College of Engineering

**Dr. Vaddi Seshagiri Rao** M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering

**Dr. A. Chandra Sekar** M.E., M.B.A., Ph.D.  
Dean (Academics), St. Joseph's College of Engineering

**Dr. C. Sreekumar** M.A., M.Tech., Ph.D.  
Dean (Academics), St. Joseph's College of Engineering

**Dr. T.V. Narmadha** M.A., M.B.A.  
Professor & Head, ISEET

**Dr. Jayarama Pradeep** M.E., M.B.A.  
Professor & Head, ISEET

**Mr. R. Sreekanth** M.E., Ph.D.  
Assistant Professor

**Convenor**  
Dr. T.V. Narmadha M.A., M.B.A.  
Professor & Head, ISEET

**SBC Advisor**  
Dr. Jayarama Pradeep M.E., M.B.A.  
Professor & Head, ISEET

**Staff Coordinator**  
Mr. R. Sreekanth M.E., Ph.D.  
Assistant Professor

**Student Coordinators**  
POORNAVIKASH T | NIVAS M | KUMMARAS SHRUJAI D | SENTHAMIZHSELVAN S  
VASANTHKUMAR S | MICHAEL JESVIN F

**EMAIL**  
iseejece\_pels2023@gmail.com  
POOJASREE K |

**INSTAGRAM**  
@iseepels\_sjce

\*For Admissions: visit [www.sjosephs.co.in](http://www.sjosephs.co.in) / [www.sjosephstechnology.co.in](http://www.sjosephstechnology.co.in) or contact: +91 99401 04881 / +91 99401 04882

The IEEE Power Electronics Society of St Joseph's College of Engineering hosted the Frog-Tastic, a fun technical event in virtual mode. The event was conducted on 30.01.2023. In this event, participants are put their knowledge to the test, the event is about power electronics basic MCQ questions. The quiz as graphical image of a frog which show the answer by jumping on a leaf if it is correct or the frog drown and the game will be over. This makes the event more entertain. E-certificate were given to the winners and participants.

PIC: IEEE Event poster

12.

**HEAD'S UP?**

Date: 28-01-2023  
Timing: 140-3:00pm  
Mode: Offline

*E-Certificates will be provided to all the participants*

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com  
Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc.  
Executive Director, St. Joseph's Group of Institutions

**Dr. V. Vallinayagam** M.A., M.B.A., Ph.D.  
Dean (Students Affairs), St. Joseph's College of Engineering

**Dr. Vaddi Seshagiri Rao** M.E., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering

**Dr. A. Chandra Sekar** M.E., M.B.A., Ph.D.  
Dean (Academics), St. Joseph's College of Engineering

**Dr. C. Sreekumar** M.A., M.Tech., Ph.D.  
Dean (Academics), St. Joseph's College of Engineering

**Dr. T.V. Narmadha** M.A., M.B.A.  
Professor & Head, ISEET

**Dr. Jayarama Pradeep** M.E., M.B.A.  
Professor & Head, ISEET

**Mr. R. Sreekanth** M.E., Ph.D.  
Assistant Professor

**Convenor**  
Dr. T.V. Narmadha M.A., M.B.A.  
Professor & Head, ISEET

**SBC Advisor**  
Dr. Jayarama Pradeep M.E., M.B.A.  
Professor & Head, ISEET

**Staff Coordinator**  
Mr. R. Sreekanth M.E., Ph.D.  
Assistant Professor

**Student Coordinators**  
POORNAVIKASH T | NIVAS M | KUMMARAS SHRUJAI D | SENTHAMIZHSELVAN S  
VASANTHKUMAR S | MICHAEL JESVIN F

**EMAIL**  
iseejece\_pels2023@gmail.com  
POOJASREE K |

**INSTAGRAM**  
@iseepels\_sjce

\*For Admissions: visit [www.sjosephs.co.in](http://www.sjosephs.co.in) / [www.sjosephstechnology.co.in](http://www.sjosephstechnology.co.in) or contact: +91 99401 04881 / +91 99401 04882

The IEEE Power Electronics Society of St Joseph's College of Engineering hosted the Heads up, a TECHNICAL EVENT. The event was conducted on 28.01.2023. In this event, participants were form a team consist of two members, the game has two roles the "Finder" and "Informer". The Finder role is to find the answer. The Informer role is to give clue about the device or components. Each team where called forward to perform the roles, based on the time limit the winners were selected. E-certificate were given to the winners and participants.

PIC: IEEE Event poster

13.

**தொகை**  
--- ஒரு கவிதை எழுதும் போட்டி ---

தேதி : 28/01/2023  
to  
31/01/2023

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --  
**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Convenor** Dr. V. Vallinayagam M.Phil., Ph.D. Dean (Students Affairs), St. Joseph's College of Engineering  
**SBC Advisor** Dr. A. Chandra Sekar M.E., Ph.D. Dean (Research), St. Joseph's College of Engineering  
**Staff Coordinator** Mr. R. Sreekanth M.E., (Ph.D.) Professor & Head, Staff Affairs

**Student Coordinators**  
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882.

**PIC: IEEE Event poster**

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a kavithai event “தொகை” related to Tamil kavithai competition on 28 to 31 January 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 25 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Aruthra, Aparnaa, Abinaya and the others were provided with participation certificates. The student coordinators for this event are Deepika U, Jayavarshini M J, Abinaya Priya R A, Shiva D, Sunil Kumar M.

14.

**CIRCUITRIX**

27 January 2023  
6:00 P.M to 7:00 P.M

Open for all 2nd years

<https://forms.gle/f6g9n7X9C6k7h7y>

E - Certificates will be provided

**Chief Patron**  
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Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
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**SBC Advisor** Dr. A. Chandra Sekar M.E., Ph.D. Dean (Research), St. Joseph's College of Engineering  
**Staff Coordinator** Mr. R. Sreekanth M.E., (Ph.D.) Professor & Head, Staff Affairs

**Student Coordinators**  
Aparnaa | Rakshit Roshan | Keerthana | Gokul Kumar | Acharya | Sujitha

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882.

**PIC: IEEE Event poster**

Circuitrix was organized by IEEE SJCE SBC under IEEE Robotics and Automation Society for the college students. The event was conducted in Google form. It is an amazing quiz event conducted for students to make them know about electrical instruments on 25th January 2023. Over 15 students participated in it and are benefited. E-Certificates are distributed to the participants. Student Coordinators G. Aparnaa, S. Keerthana, R. Gokul Kumar, V. Rakshit Roshan, B. Santhosh, T. Sujitha coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor."



15.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
OMR, Chennai - 119

**29**  
YEARS OF EXCELLENCE

ARIIA, NBA, AICTE, NIF, Cambridge English Qualifications

**IEEE** DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IEEE Women in Engineering Affinity Group presents

**THE POWER OF 'SHE'**  
PANEL DISCUSSION | TOPIC - BE YOUR BOSS, BUILD YOUR PATH

Mr. Cecil Sunder, Director- Data & AI solutions and Strategy  
Ms. Sri S, CEO, Entrepreneur & Investor Chargeback  
Ms. Karen Oldhoven, Founder - Brand new Personality  
Ms. Jacquelyn Clayborn, CEO at ONC National APWC Board Member

DATE: January 30th, 2023  
TIME: 11:30 AM (IST)  
REG LINK: <https://bit.ly/ThePowerofShe-reg>

Chief Patron: Dr. B. Babu Manoharan  
Patrons: Mrs. S. Jessie Priya, Dr. Vaidi Seshagiri Rao, Dr. A. Chandra Sekar, Dr. C. Sree Kumar  
Convener: Dr. T. V. Narasimha Reddy  
SBC Advisor: Dr. Jayaram Prasad Reddy  
Staff Coordinator: Mr. K. Sreekanth, Dr. M. Venkatesh  
Student Coordinators: Jamuna U, Kavya P, Madhumalini MK, Kanimozhi G

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99471 01881 / +91 99471 01882

PIC: IEEE event poster

IEEE Women In Engineering Affinity Group of St Joseph's College of Engineering along with the IEEE SB of SJCE organised an international Panel Discussion - “**The Power of ‘She’**” on the topic “**BE YOUR BOSS, BUILD YOUR PATH**”. Our First panellist, **Ms. Jacquelyn Clayborn** Founder/CEO at ONC National, a gentle and resilient speaker shared her past experiences and how she handled it. Our Second Panellist, **Ms. Karen Oldhoven**, such a brilliant, lovely, and brave individual founder of Personal Branding Agency, shared her personal experiences as well as the importance of women in society. Our third panel list, **Ms. S. Srii**, CEO, Entrepreneur & Investor joined and shared the importance of women entrepreneurship with us. Our fourth panel list, **Mr. Cecil Sunder**, Director- Data & AI solutions and Strategy (US Manufacturing) talked about the power of women, the most lovely portion of the discussion.

16.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
OMR, Chennai - 119

**29**  
YEARS OF EXCELLENCE

ARIIA, NBA, AICTE, NIF, Cambridge English Qualifications

**IEEE** DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IEEE Women in Engineering Affinity Group presents

**PHOTOHOLIC**  
A platform for Photo-freaks

2023  
January  
26th-30th

THEME: BLACK AND WHITE  
CATEGORY: ANY GENRE

Submission Link: <https://bit.ly/photoholic-onlinephotocontest>  
Merit E-certificates will be provided to the winners  
Participation Certificates will be provided to all the participants

Chief Patron: Dr. B. Babu Manoharan  
Patrons: Mrs. S. Jessie Priya, Dr. Vaidi Seshagiri Rao, Dr. A. Chandra Sekar, Dr. C. Sree Kumar  
Convener: Dr. T. V. Narasimha Reddy  
SBC Advisor: Dr. Jayaram Prasad Reddy  
Staff Coordinator: Mr. K. Sreekanth, Dr. M. Venkatesh  
Student Coordinators: Jamuna U, Kavya P, Madhumalini MK, Kanimozhi G

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PIC: IEEE event poster

IEEE Women In Engineering AG under St. Joseph’s College of Engineering Student Branch Chapter organised “**PHOTOHOLIC- A platform for Photo-freaks**” for School Diploma and College students from January 26th to January 30th of 2023 .A Platform for Photo-freaks to get captured the moment with other people. The event was coordinated by Ms. Jamuna U, Ms Madhumalini MK, Ms Kaviya P, Ms. Kanimozhi G, Ms. Harini N. Around 50 students participated in this contest. Merit Certificates were provided to the Winners and E- Certificates were provided to all the participants .

17.

The poster is for the IEEE Women in Engineering Affinity Group's 'JAN-REL' online quiz contest. It features the St. Joseph's College of Engineering logo at the top, along with accreditation logos for ARHA, NEA, A+, NIRF, and Cambridge. The text reads: 'DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING presents IEEE Women in Engineering Affinity Group JAN-REL An online quiz contest'. It includes a 'MODE ONLINE' icon, a calendar icon for 'January 26th to 30th', and the theme 'A Game with January'. The registration link is 'https://bit.ly/Jan-Rel'. It lists the Chief Patron, Dr. B. Babu Manoharan, and several Patrons, Convenors, SBC Advisors, Staff Coordinators, and Student Coordinators. At the bottom, it provides contact information for admissions.

PIC: IEEE event poster

IEEE Women In Engineering AG under St. Joseph’s College of Engineering Student Branch Chapter organised “**JAN-REL- An Online quiz contest**” for School,Diploma and College students from January 26th to January 30th of 2023. This event is in the form of a quiz related to the month of January. The event was coordinated by Ms.Jamuna U, Ms Madhumalini MK, Ms Kaviya P, Ms.Adrai,Ms.Madhumitha. Around 45 students participated in this contest. Merit Certificates were provided to the Winners and E- Certificates were provided to all the participants.

18.

The poster is for a guest lecture titled 'ENTREPRENEURIAL JOURNEY AND KEY LESSONS LEARNT' by Mr. Suresh Dakshina. It features the St. Joseph's College of Engineering logo at the top, along with accreditation logos for ARHA, NEA, A+, NIRF, and Cambridge. The text reads: 'DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Organises GUEST LECTURE ON ENTREPRENEURIAL JOURNEY AND KEY LESSONS LEARNT'. It includes a 'RESOURCE PERSON' icon, a photo of Mr. Suresh Dakshina, and the date '11-01-2023' with a time slot of '11.40 am to 1.00 pm'. It lists the Chief Patron, Dr. B. Babu Manoharan, and several Patrons, Convenors, and Coordinators. At the bottom, it provides contact information for admissions.

PIC: Guest Lecture poster

Our department organized Guest Lecture on “Entrepreneurial Journey and Key Lessons Learnt” By Mr. Suresh Dakshina, Founder & president, Chargeback Gurus, Mckinney, Texas, USA on 11-01-2023

19.

## PLACEMENT DETAILS FOR THE MONTH OF JANUARY 2023

Total No of students placed = 112 UG Students  
 Total No of Offers = 170 + 4 (PG) = 174 Offers  
 Total No of Students (UG) = 160  
 Total No of Eligible Students (UG) = 144 (All Clear & 1 arrear students)  
 Total No of Eligible Students (PG) = 06  
 % of students Placed (UG) =  $108/144 = 75\%$   
 % of students Placed (PG) = 04  
 % of students Placed (PG) =  $04/06 = 66.66\%$   
 No of students having single offers = 67 + 04 (PG)  
 No of students having Double offers = 28  
 No of students having Triple offers = 15  
 No of students having Quadruple offers = 02

20.



*PIC: Students group photo*

Our II<sup>nd</sup> Yr students who had Won the Intramural Sports held on 24-01-2023.

VOLLEYBALL (BOYS)- WINNERS	
S.No.	Name of the Student
1.	GOWTHAM P
2.	ABINESH G
3.	KAILASH I
4.	MONISH VIJAY G
5.	SIBIRAJ
6.	VIGNESH RAJA
7.	RAGHUL D
8.	ARAVIND RAJ R
9.	SRINIVAS R

21.



*PIC: Students group photo*

Our II<sup>nd</sup> Yr students who had Won the Intramural Sports held on 24-01-2023.

KABBADI (BOYS)- RUNNERS	
S.No.	Name of the Student
1.	DEEPAK A
2.	ABINESH G
3.	KAILASH I
4.	RAGHUL D
5.	MICHEAL JESWIN
6.	VISHNU M
7.	PRAVEEN V
8.	NANDHA KUMARAN
9.	PRAGATHEESHWARAN
10.	ARAVIND RAJ R
11.	BALATEJA



22.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
OMR, Chennai - 119

**COUNSELLING CODE:1317**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Entrepreneur Development Program**  
on  
**How to become a successful Entrepreneur despite struggles**  
by  
**Mr. C. Alexandriyan**  
Founder and CEO  
AP Interiors and modular kitchen

**Event Date: 03-12-2022**  
Timing: 11:00 am to 12.30 am  
Venue: AV hall, Library block

**ENTREPRENEUR**

**Chief Patron**  
**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. B. Jessie Priya M.Com., Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc., Executive Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D., Principal, St. Joseph's College of Engineering  
Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D., Dean Student Affairs, St. Joseph's College of Engineering  
Dr. A. Chandrasekar M.E., Ph.D., Dean Research, St. Joseph's College of Engineering  
Dr. G. Sreekumar M.Sc., M.Tech., Ph.D., Dean Academic, St. Joseph's College of Engineering

**Convenors**  
Dr. Jayarama Pradeep M.E., Ph.D., Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E., Ph.D., Professor & Head - Lab Affairs

**Staff Coordinators**  
Dr. M. Venmathi M.E., Ph.D., Associate Professor  
Dr. P. Anbarasan M.Tech., Ph.D., Assistant Professor

For Admissions: Visit: [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in)  
Contact: 9940104881 / 9940104882

PIC: EDP poster

Our Electrical and Electronics Engineering department conducted Entrepreneur Development Program on “How to become a Successful Entrepreneur despite Struggles” on 3<sup>rd</sup> December 2022. The objective of this Entrepreneur Development Program talk is to help the students in strengthening his entrepreneurial motive and in acquiring skills and capabilities. Mr.C.Alexandriyan, Founder and CEO, AP Interior and Modular Kitchen shared his project activity, market opportunities and strategies.

23.



PIC: Students with trophy

Our students who had Won GOLD medal in BASKETBALL WOMEN'S organized by EEC BASKETBALL STATE LEVEL INTERCOLLEGE TOURNAMENT-2023 held at EASWARI ENGINEERING ENGINEERING COLLEGE, CHENNAI from 20/01/2023 to 21/01/2023.

NAME OF THE STUDENT	DEPARTMENT	YEAR /SEC
JANANI G	EEE	II- A
MALAR D	EEE	II- C

24.



PIC: Student with trophy

Our student SIVA HARISH M who had Won RUNNER UP in BASKETBALL MEN'S organized by EEC BASKETBALL STATE LEVEL INTERCOLLEGE TOURNAMENT-2023 held at EASWARI ENGINEERING ENGINEERING COLLEGE, CHENNAI from 20/01/2023 to 21/01/2023.

25.



PIC: SAC event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **SOCIAL AWARENESS CLUB** organized a technical event **“BRAINY QUEST”** on **03/01/2023**. This exclusive event started at **9 :40AM** with all the members of our club. The event was started with **“Tamil Thai Vazhthu”**. Abiding the famous quote **“Talent hits a target no one else can hit; Genius hits a target no one else can see”** the event started exploring the hidden talent of our Students through this event.

STUDENT NAME	YEAR	POSITION
Anandha Kumar Hari Krishna	II-A	I
Gokul K Akash Vel	II-A	II
Naveen Buyavarapu Ashik Remo	III-A	III



26.

**POSTEROLIC**  
THE POSTER MAKING EVENT

Merit Certificates will be provided for

**Winners**

**Do Register:**  
<https://forms.gle/jryelRauRdaBKvjNA>

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. B. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering  
Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering  
Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering  
Dr. G. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering  
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs  
Ms. R.G. Nirmala M.E., (Ph.D.) Assistant Professor / EEE  
Mr. S. Sivakumar M.E., (Ph.D.) Assistant Professor / EEE

**Student Coordinators**  
Abhiksha R | Abhinaya V.J | Abhinaya B | Dhanalakshmi.R | Dharami.V | Jamuna U | Linda Joice R P | Nandi Vardhan Reddy R  
Nivas M | Ramya R | Sagya Antony Ishwarya F | Shankar Aashash S | Sharan M

\*For Admissions: Visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or Contact: 9940104881 / 9940104882

PIC: Electrical club event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **ELECTRICAL CLUB** organized a technical event **POSTEROLIC** on **12th Jan 2023**. This exclusive event started at **1.40 PM- 3.00 PM** with all the members of our club. The event started with “Tamil Thai Vazhthu” and the event started exploring the hidden talent of our Students.

STUDENTS NAME	YEAR	POSITION
Harini , Jasmin	II	I
Suhas, Vignesh	II	II
Joshan, Aravind	II	III

27.

**Tech Aura**

Counselling Code :1317

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**Robotics CLUB**  
Organizes

**Tech Aura**

10/01/2023  
VENUE-BLOCK 5

To all 2nd & 3rd Years

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. B. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering  
Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering  
Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering  
Dr. G. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

**Convenors**  
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs

**Coordinators**  
Dr. M. Venmathi M.E., Ph.D. Associate Professor / EEE  
Mr. A. Satheesh Kumar M.E., (Ph.D.) Assistant Professor / EEE

**Student Coordinators**  
DARSINI | BUYAVARAPU NAVEEN | ISWARIYA | NAVINA | KATHIRAVAN | CHRIS KEVIN | CHRISTEL PEERIS | PRAVESH CHRISTO

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: 9940104881 / 9940104882

PIC: Club event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **ROBOTICS CLUB** organized a technical event “**TECH AURA**” on **10th January 2023**. This exclusive event started at **1:40 PM** with all the members of our club. The event was started with “Tamil Thai Vazhthu” and the event started exploring the hidden talent of our Students.

STUDENTS NAME	YEAR	POSITION
PON NAVEEN ANTO I MOHAMED RIFA YI A	II	I
KAILASH KARTHIKEYAN I KARTHIKEYEN C	II	II
CHANDRU U ARAVINDHA RAJ R	II	III

28.

PIC: Club event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) ENSAVCLUB organized a technical event “BETA-BYTE” on 12-JAN-2023. This exclusive event started at 1:40PM TO 3:00PM with all the members of our club. The event was started with “Tamil Thai Vazhthu” and the event started exploring the hidden talent of our students.

STUDENTS NAME	YEAR	POSITION
B.MUGUDHAN M.KARTHIKEYAN	III	I
SIVANATHAN.T VIGNESHWAR.R	III	II
MADHU MALINI M.K MALAVIKA.N	III	III

29.

PIC: Club event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering).St.JOSEPH'S ISTE STUDENT CHAPTER organized a event “JEST JAMUARY” on 11-01-2023. This exclusive event started at 01:40 P.M with all the members of our club. The event was started with “Tamil Thai Vazhthu” and the event started exploring the hidden talent of our students.

STUDENTS NAME	YEAR	POSITION
Nandhivaradhan Reddy Sivanathan	III-B III-C	I
Hari priya. M Aparnaa. G	III-A	II
Churrrendar Hariharan. J	III-A	III



30.

**CHOPPERS CLUB**  
ORGANISES  
**RADIANTZ**  
FOR 3 YEARS  
On 18th January, 2023  
1:40- 3:00pm

**REGISTER HERE**

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Dr. V. Vallinayagam** M.Phil., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar** M.E., Ph.D. Dean Research, St. Joseph's College of Engineering  
**Dr. C. Sreekumar** M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

**CONVENORS**  
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs

**COORDINATORS**  
Mr. R. Elanthirayam M.Tech., (Ph.D.) Assistant Professor  
Ms. S. Gomathi M.E. (Ph.D.) Assistant Professor

**STUDENT COORDINATORS**  
MANIGANDAN MADHUMALINI DHINAKARAN SHIVANATHAN RAMPRASATH HARIPRIYA AJITH ACHUTHA AYESHA PARVEEN HEMA APSARA

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in)  
or contact: +91 99401 04881 / +91 99401 04882

**PIC: Club event poster**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **CHOPPERS CLUB** organized a technical event “**RADIANTZ**” on **18<sup>th</sup> January**. This exclusive event started at **TIME** with all the members of our club. The event was started with “Tamil Thai Vazhthu”. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event.

STUDENTS NAME	YEAR	POSITION
PRAKASH - KAILASH	II - B	1 <sup>st</sup> PLACE
VIGNESH - VASAITH	II - C	2 <sup>nd</sup> PLACE
TAMIL SELVAN - SELVARASU	II - C	3 <sup>rd</sup> PLACE

31.

**ELECTRICAL CLUB**  
organises  
**TRIZONE**  
DATE: 21-01-23  
TIME: 11:00AM - 1:00PM  
CERTIFICATES WILL BE PROVIDED

Round 1: Facts-o-Facts  
Round 2: Rapidfire  
Round 3: \_XO\_

**REGISTER HERE**

**Chief Patron**  
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Mr. S. Sivakumar M.E. Assistant Professor / EEE

**STUDENT COORDINATORS**  
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or contact: +91 99401 04881 / +91 99401 04882

**PIC: Club event poster**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **ELECTRICAL CLUB** organized a technical event “**TRIZONE**” on **21-01-2023**. This exclusive event started at 1.40pm with all the members of our club. The event was started with “Tamil Thai Vazhthu”. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event.

STUDENTS NAME	YEAR	POSITION
Michael F Raghul E	II	I
Priya Darshini V Priya Darshini D	II	II
Nandha Pradeesh	II	III



32.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
Jeppiaar Educational Trust  
OMR, Chennai - 119

**Counselling Code :1317**

ARIIA, NEA, A+, IEE, nifr, Cambridge

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**SOCIAL AWARENESS CLUB**

Organizes

Flameless Cooking

**CARBONTONICS**

03 Jan  
01:00pm - 03:00pm  
2nd & 3rd Years

Registration link: <https://forms.gle/GUJUwp9ESbC1g6JG9>  
Merit Certificates will be provided to the winners

**Chief Patron**  
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Chairman, St. Joseph's Group of Institutions

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**Dr. G. Sreekumar** M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering  
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**Staff Coordinators**  
Mr. R. Elanthirayan M.Tech., Ph.D. Assistant Professor  
Ms. S. P. Vedavalli M.E., Ph.D. Assistant Professor

**Student Coordinators**  
Abiksitha R | Abinaya V | Abinaya B | Dhanalakshmi R | Dharani V | Jamuna U | Linda Joice R P | Nandi Vardhan Reddy R | Nivas M | Ramya R | Sagaya Antony Ishwarya F | Shankar Aahash S | Sharan M |

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882

PIC: Club event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **SOCIAL AWARENESS CLUB** organized a technical event **CARBONTONICS** on **03-01-2023**. This exclusive event started at **1.40 PM** with all the members of our club. The event was started with “Tamil Thai Vazhthu” and the event started exploring the hidden talent of our students.

STUDENTS NAME	YEAR	POSITION
Aakash , Aravind , Joshan	II	1 <sup>st</sup> PLACE
Ratheesh, Balateja	II	2 <sup>nd</sup> PLACE
Prince, Bharath	II	3 <sup>rd</sup> PLACE

Sl. No.	Title	Detail					
1	Webinar /FDP / workshop attended	<b>S.No</b>	<b>Faculty Name</b>	<b>Webinar /FDP / workshop attended</b>	<b>Conducting agency</b>	<b>Period</b>	<b>Link</b>
		1.	Dr.C.N.Gnanaprakasam	FDP on "ARTIFICIAL INTELLIGENCE IN HEALTH CARE"	Easwari Engineering College	24.01.2023 to 31.01.2023	<a href="https://drive.google.com/file/d/1n-RuSAuytLZn7v3BWRGgoC PzSYWcuFba/view?usp=share_link">https://drive.google.com/file/d/1n-RuSAuytLZn7v3BWRGgoC PzSYWcuFba/view?usp=share_link</a>
		2.	Mr.D.Sankaran	FDP on "ARTIFICIAL INTELLIGENCE IN HEALTH CARE"	Easwari Engineering College	24.01.2023 to 31.01.2023	<a href="https://drive.google.com/file/d/1PLKbjTC_eq859L13fDU pTAA37YsG_awL/view?usp=share_link">https://drive.google.com/file/d/1PLKbjTC_eq859L13fDU pTAA37YsG_awL/view?usp=share_link</a>
2.	Journal Publication	<b>S.No</b>	<b>Faculty Name</b>	<b>Publication Month and Year</b>	<b>Title</b>	<b>Link</b>	
		1.	C.N. Gnanaprakasam, S. Meena	Jan 2023	Robust energy management technique for plug-in hybrid electric vehicle with traffic condition identification	<a href="https://drive.google.com/file/d/1Dn0LjcVQV5f9YuFeFh3aZM1aXmCfygEF/view?usp=share_link">https://drive.google.com/file/d/1Dn0LjcVQV5f9YuFeFh3aZM1aXmCfygEF/view?usp=share_link</a>	
3.	Workshop/ STTP Organised	<b>S.No.</b>	<b>Faculty Name</b>	<b>Workshop/STTP Organised</b>	<b>Name of the Event</b>	<b>Date</b>	<b>Link</b>
		1.	Dr.V.Vijayan, Mr.D.Sankaran	EIE department, St.Joseph's College of Engineering	Technical Quiz	7-1-2023	<a href="https://drive.google.com/file/d/1ZSkwKo1jO8ypDZw2K2LBV3SSFXQGILWw/view?usp=share_link">https://drive.google.com/file/d/1ZSkwKo1jO8ypDZw2K2LBV3SSFXQGILWw/view?usp=share_link</a>

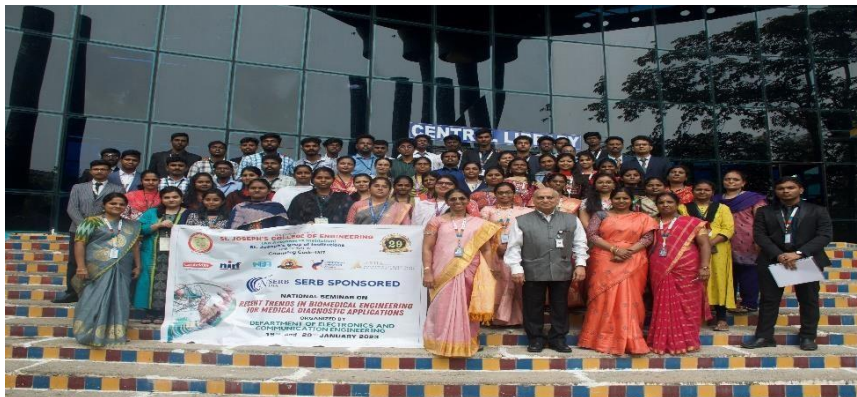
		2.	Dr.V.Vijayan, Mr.D.Sankaran	EIE department, St.Joseph's College of Engineering	Introduction to AR/VR	11-1-2023	<a href="https://drive.google.com/file/d/1T3y1qHtQnw7LsPkzrmylprVFS5CRhoOX/view?usp=share_link">https://drive.google.com/file/d/1T3y1qHtQnw7LsPkzrmylprVFS5CRhoOX/view?usp=share_link</a>
		3.	Dr.S.Meena, Mr.D.Sankaran	EIE department, St.Joseph's College of Engineering	Tech Wordle	13-1-2023	<a href="https://drive.google.com/file/d/1bq4iCyyfwXsCvvvF-Mb-N3h8p2IlbhJo/view?usp=share_link">https://drive.google.com/file/d/1bq4iCyyfwXsCvvvF-Mb-N3h8p2IlbhJo/view?usp=share_link</a>

# 1. SERB Sponsored Event:

<p style="text-align: center;"><b>NATIONAL SEMINAR ON “RECENT TRENDS IN BIOMEDICAL ENGINEERING FOR MEDICAL DIAGNOSTIC APPLICATIONS”</b></p>	<p style="text-align: center;"><b>Report</b></p>
 <p style="text-align: center;"><b>DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ORGANIZES</b></p> <p style="text-align: center;"><b>SERB SPONSORED NATIONAL SEMINAR ON RECENT TRENDS IN BIOMEDICAL ENGINEERING FOR MEDICAL DIAGNOSTIC APPLICATIONS</b></p> <p style="text-align: center;"><b>INVITED SPEAKERS : 19.01.2023</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>Mr. Deepan Raj</b> Lead Data Scientist, HCL Technologies. <i>Trends in Data Analytics</i> 08.30 AM – 10.00 AM</p> </div> <div style="text-align: center;">  <p><b>Dr. S. Prabakar</b> Professor and Head, Department of Biomedical Engineering, Sona College of Technology, Salem. <i>AI in Diagnosis, Prognosis and Treatment</i> 10.30 AM – 11.30 AM</p> </div> <div style="text-align: center;">  <p><b>Dr. G. Kavitha</b> Associate Professor, Electronics Engineering, MIT, Anna University, Chennai. <i>Biomedical Image Analysis using Machine Learning Techniques</i> 12.30 PM – 1.30 PM</p> </div> <div style="text-align: center;">  <p><b>Dr. G. Malathi</b> Professor, School of Computer Science and Engineering VIT University, Chennai. <i>Radiomics</i> 1.30 PM – 2.45 PM</p> </div> </div> <p style="text-align: center;"><b>INVITED SPEAKERS : 20.01.2023</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p><b>Dr. A. Kavitha</b> Professor and Head, Department of Biomedical Engineering, SSN College of Engineering. <i>Autism Analysis using Advanced Machine Learning Procedures</i> 9.00 AM – 10.00 AM</p> </div> <div style="text-align: center;">  <p><b>Dr. M. Sai Baba</b> Director, Centre for Professional Development and Training Ramaiah University of Applied Sciences, Visiting Professor, National Institute of Advanced Studies, Bengaluru. <i>Artificial Intelligence, Society &amp; Possibilities</i> 10.30 AM – 11.30 AM</p> </div> <div style="text-align: center;">  <p><b>Dr. Mohnish Palaniswamy</b> Clinical Interventional Radiologist, Dr. Kush Imaging and Interventions, OMR, Chennai. <i>Recent Trends in Imaging Modalities for Cancer Treatment.</i> 12.30 PM – 01.30 PM</p> </div> </div> <p style="text-align: center;"><b>CHIEF PATRON</b> <b>Dr. B. BABU MANOHARAN</b> M.A., M.B.A., Ph.D. Chairman, St. Joseph's Group of Institutions</p> <p style="text-align: center;"><b>PATRONS</b></p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p><b>Mrs. S. Jessie Priya</b> M.Com. Managing Director, St. Joseph's Group of Institutions</p> </div> <div style="text-align: center;"> <p><b>Mr. B. Shashi Sekar</b> M.Sc. Executive Director, St. Joseph's Group of Institutions</p> </div> </div> <p style="text-align: center;"><b>CHAIR PERSONS</b></p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p><b>Dr. Vaddi Seshagiri Rao</b> M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering</p> <p><b>Dr. A. Chandra Sekar</b> M.E., Ph.D. Dean, Research</p> </div> <div style="text-align: center;"> <p><b>Dr. V. Vallinayagam</b> M.Sc., M.Phil., Ph.D. Dean, Students Affair</p> <p><b>Dr. G. Sreekumar</b> M.Sc., M.Tech., Ph.D. Dean, Academics</p> </div> </div> <p style="text-align: center;"><b>Program Advisors</b></p> <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p><b>Dr. B. Victoria Jancee</b> M.E., Ph.D. HOD Staff Affairs, ECE</p> <p><b>Dr. S. Aghalya</b> M.E., Ph.D. HOD Student Affairs, ECE</p> <p><b>Dr. P. Ezhilarasi</b> M.E., Ph.D. HOD Lab Affairs, ECE</p> </div> <div style="text-align: center;"> <p><b>Convenor</b></p> <p><b>Dr. D. Lakshmi</b> M.E., Ph.D. Associate Professor</p> <p><b>Co-Convenor</b></p> <p><b>Dr. Shirley Selvan</b>, M.E., Ph.D. Associate Professor</p> </div> <div style="text-align: center;"> <p><b>Program Organizing Committee</b></p> <p><b>Dr. J. Sivakumar</b> M.E., Ph.D. Associate Professor</p> <p><b>Mrs. R. Madhumitha</b> M.E., (Ph.D) Assistant Professor</p> <p><b>Mrs. P. Elaveni</b> M.E., (Ph.D) Assistant Professor</p> </div> </div>	<p>SERB Sponsored a two- day national seminar on the topic “Recent trends in Biomedical Engineering for Medical Diagnostic Applications” which was organized by the Department of Electronics and Communications Engineering of St. Joseph’s College of Engineering on the 19<sup>th</sup> and 20<sup>th</sup> of January 2023.</p> <p>A total of 7 speakers were invited to speak on various topics and 85 participants attended the seminar.</p> <p>On 19<sup>th</sup> January, the inauguration was held at the Audio-Visual Hall. The registration started at 8:00AM and the inauguration started with Tamizh Thai Vaazhthu. The welcome address was given by Dr. B. Victoria Jancee, HOD – Staff Affairs, ECE and the overview of the programme was given by Dr. Shirley Selvan, Associate Professor, ECE. The citation of the chief guest was given by Dr. J. Sivakumar, Associate Professor, ECE.</p> <p>The programme started with the lamp being lit by all the dignitaries. Our Honourable Chief guest Mr. G. Deepan Raj, Lead Data Scientist, HCL Technologies was honoured by our respected Principal Dr. Vaddi Seshagiri Rao and he addressed the gathering.</p> <p>The inaugural address was given by Mr. G. Deepan Raj and the vote of thanks was given by Dr. D. Lakshmi, Associate Professor, ECE. The inauguration ended with the National Anthem.</p> <p>On the first day of the SERB Sponsored seminar, the first speaker Mr. G. Deepan Raj, Lead Data Scientist, HCL Technologies spoke on “Trends in Data Analytics”. He spoke about the significance of data preparation in data analytics and the challenges in analyzing the biomedical images.</p> <p>The second speaker Dr. S. Prabakar, Professor &amp; Head, Department of Biomedical Engineering, Sona College of Technology, Salem spoke on “AI in diagnosis, prognosis and treatment”. He spoke about how to diagnose a disease, its prognosis and treatment using Artificial Intelligence.</p> <p>The third speaker, Dr. G. Kavitha, Associate Professor, Electronics Engineering, MIT, Anna University, Chennai spoke on “Biomedical Image analysis using Machine Learning</p>







Techniques". She spoke about the analysis of CT, MRI images using Machine Learning algorithms to detect various abnormalities. The fourth speaker Dr. G. Malathi, Professor, School of Computer Science and Engineering, VIT University, Chennai, spoke on "Radiomics". She spoke about analyzing X-ray images in Oral healthcare, Ophthalmology and Oncology.

On the second day of the SERB Sponsored seminar, the first speaker was Dr. A. Kavitha, Professor & Head, Department of Biomedical Engineering, SSN College of Engineering spoke on "Autism Analysis using Advanced Machine Learning procedures". She spoke about various stages of autism and how to detect it using machine learning.

The second speaker Dr. M. Sai Baba, Director, Centre for professional development and training, Ramaiah University of Applied Sciences, visiting professor, National Institute of Advanced studies, Bengaluru spoke on "Artificial Intelligence, Society and possibilities". His presentation covers about, how AI has influenced the society in recent days and what are the future possibilities in AI.

The last speaker of the day was Dr. Mohnish Palaniswamy, Clinical Interventional Radiologist, Dr. Kush Imaging and Interventions, OMR, Chennai spoke on "Recent Trends in Imaging Modalities for Cancer treatment". He gave information about cancer treatment in recent day, how radiologists analyze the X-ray images, different types of scans, etc.

The valedictory was done by the last speaker Dr. Mohnish Palaniswamy, Certificates were distributed to all the participants, feedback is taken from the participants and the comment about the seminar event found to be well organized and excellent. Participants show interest towards joining with us in more such events.





## 2. OPTICA Event:

### Project Competition

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
OMR, CHENNAI-119  
Counselling Code:1317

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
in association with  
**OPTICA**  
Advancing Optics and Photonics Education

**OPTICA STUDENT CHAPTER**  
PROUDLY PRESENTS

# PROJECT FEST

**EXCLUSIVELY FOR OPTICA MEMBERS**  
PARTICIPATION CERTIFICATES WILL BE ISSUED

**CHIEF PATRON**  
**Dr. B. BABU MANOHARAN** M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**PATRONS**

**Mrs. S. Jessie Priya** M.Com.  
Managing Director, St. Joseph's Group of Institutions

**Mr. B. Shashi Sekar** M.Sc.  
Executive Director, St. Joseph's Group of Institutions

**Dr. Vaddi Seshagiri Rao** M.E., M.B.A., P  
Principal, St. Joseph's College of Engineering

**Dr. V. Vallinayagam** M.Sc., M.Phil., Ph.D. **Dr. A. Chandra Sekar** M.E., Ph.D. **Dr. G. Sreekumar** M.Sc., M.tech., Ph.D.  
Dean (Students Affair) **Dean (Research)** **Dean (Academics)**

**Convenors:-**  
**Dr. B. Victoria Jancee** M.E, PhD  
HOD-Staff Affairs  
**Dr. S. Aghalya** M.E, PhD  
HOD-Student Affairs  
**Dr. P. Ezhilarasi** M.E, PhD  
HOD-Lab Affairs

**Staff Coordinator:-**  
**Dr. B. Vasudevan** M.E, Ph.D

**Student Coordinators:-**  
**Rithish Murugan** - +91 7550203999  
**Shriya Mukundan** - +91 9790935605  
**Raghuram Murugesh** - +91 6381376804

For Admissions Visit-[www.stjosephs.ac.in](http://www.stjosephs.ac.in)/[www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact:9940104881/9940104882

### Report

*An Intellectual event, “PROJECTFEST” exclusively for OPTICA members .*

An illuminating technical event was organized by department of ECE in association with OPTICA student chapter exclusively for the optica members on 20<sup>th</sup> Jan, 2023. The event started with a welcome speech and the judge for the event, Dr. Lingeswaran was welcomed by our student co-ordinator, Dr. B. Vasudevan . Nearly 20 teams from the 2<sup>nd</sup> and 3<sup>rd</sup> year of ECE dept of our college participated in the event with utmost interest. Each and every registered team were present in the event with their ppt presentation and their working model. Each team came forward and started to present their interesting ideas. After presenting the ideas, they also showed their working models. The judges reviewed the models and shared their opinions. The students eagerly listened to the judgement and also bravely answered to their questions. The judges appreciated the students for their innovative ideas and encouraged them to do similar needful projects in the future.

The entire event was very intellectual and all the participants grasped more knowledge on various ideas. The winners were appreciated with certificates. They received good compliments from the judges. All the teams were equally good and participation certificates were given for all the participants.





The event ended with a thank you speech. All the students got benefited and the event ended successfully.



**1<sup>st</sup> PRIZE : Gilbert Sam M A , Abishai Shakthi Dev , Hariharan M, Balaji V**



**1<sup>st</sup> PRIZE : Vishal S, Praveen R, Sugumar N**



**2<sup>nd</sup> PRIZE : Dharani Shree V, Dusari kaushik Raghava , Bhagwathi M , Ebi Manuel**

### 3. Publications:

The following staff members have published the research papers during January in Journal at International Level

S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Publication
1.	Dr. B Vasudevan	Optimal gene prioritization and disease prediction using knowledge based ontology structure	Biomedical Signal Processing and Control	Sci Indexed, Vol.82 , 104548	April 2023
2.	Dr. D.Lakshmi	Foetal ultrasonographic Sparse representation evaluation of spectral trust maps	AIP Conference Proceedings	Scopus Indexed, Volume 2523, No.1	January 2023



*You Choose, We Do It*

# St. JOSEPH'S COLLEGE OF ENGINEERING

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St. Joseph's Group of Institutions

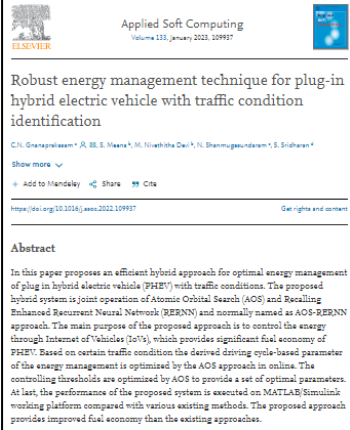

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OMR, Chennai - 119.

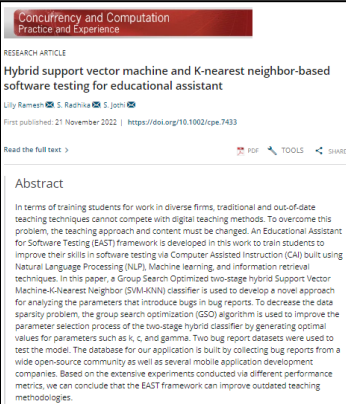




S. No.	Name of the Staff	Title of the FDP	Host Institution	Duration	Date of Completion
1	Dr. A M Balamurugan	Futur Generation Communication and Networking	Jerusalem College of Engineering	6 days	02.01.2023 to 07.01.2023
2	Dr. B Vasudevan	Data Science and Analytics tool	Dhanalakshmi College of Engineering	5 days	09.01.02023 to 13.01.2023
3	Mrs.E Malarvizhi	International FDP on Bioinspired Optimization Techniques Programming	Eswari Engineering College-Chennai	6 days	04.01.2023 to 10.01.2023
		FDP on Artificial Intelligence &IOT	RMK College of Engineering and Technology-Chennai	5 days	02.01.2023 to 06.01.2023



## DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	 <p style="text-align: center;"><b>Co-author: Ms. M. Nivethitha Devi</b> published a paper</p>	<p style="text-align: center;"><b><u>Staff Paper Publication</u></b></p> <p><i>C. N. Gnanaprakasam, S. Meena, M. Nivethitha Devi, N. Shanmugasundaram, S. Sridharan, “Robust energy management technique for plug-in hybrid electric vehicle with traffic condition identification”, Applied Soft Computing, Publisher: Elsevier, Print ISSN: 1568-4946, E ISSN: 1872-9681, <a href="https://doi.org/10.1016/j.asoc.2022.109937">https://doi.org/10.1016/j.asoc.2022.109937</a>, Vol. 33, Jan 2023. (Indexed in Scopus, Annexure I, Impact Factor: 6.725)</i></p> <p><b>Abstract:</b> In this paper proposes an efficient hybrid approach for optimal energy management of plug in hybrid electric vehicle (PHEV) with traffic conditions. The proposed hybrid system is joint operation of Atomic Orbital Search (AOS) and Recalling Enhanced Recurrent Neural Network (RERNN) and normally named as AOS-RERNN approach. The main purpose of the proposed approach is to control the energy through Internet of Vehicles (IoVs), which provides significant fuel economy of PHEV. Based on certain traffic condition the derived driving cycle-based parameter of the energy management is optimized by the AOS approach in online. The controlling thresholds are optimized by AOS to provide a set of optimal parameters. At last, the performance of the proposed system is executed on MATLAB/Simulink working platform compared with various existing methods. The proposed approach provides improved fuel economy than the existing approaches.</p>
2	 <p style="text-align: center;"><b>Dr. A. Tamizhselvi</b> published a paper</p>	<p style="text-align: center;"><b><u>Staff and Student Paper Published</u></b></p> <p><i>A. Tamizhselvi, J. Liju Anton and P. Yoganathan, “Secured data transmission for VANETS using CNN based trust aware clustering”, Journal of Intelligent &amp; Fuzzy Systems, Publisher: IOS Press, Print ISSN: 1064-1246, E ISSN: 1875-8967, DOI: 10.3233/JIFS-220460, vol. 43, no. 6, pp. 8073-8087, Nov 2022. (Indexed in WOS, Annexure I, Impact Factor: 1.737)</i></p> <p><b>Abstract:</b> Intelligent transport system is a greatly emerging technology in recent years. The stability and reliability of these systems is very important. In vehicular ad-hoc networks (VANET), the data transmission process can be improved by employing clustering process. The nodes can be clustered in order to utilize the maximum bandwidth of the network and improving network stability in VANETS it is to introduce road safety and driver safety. In addition, security is a major concern and the malicious nodes need to be accurately detected. Several kinds of attacks can present in the VANETS. Hence an efficient authentication method and trust aware method is essentially required. In this work, stability assured CNN based trust aware clustering and authenticated transmission is introduced. For data authentication quantum cryptography technique is employed. In clustering process, trust degree of nodes is computed, vehicle speed is observed, direction of vehicle and distance among nodes are taken. In addition, for ensuring more safety, the critical data transmission is given higher priority. Therefore in clustering, data criticality parameter is also considered. For cluster formation, convolution neural network is employed. After the clustering process, the quantum cryptography based authentication is implemented for vehicle units and road side units. Data among these units are transmitted with quantum channel encryption key. Then simulation results are observed for validating the proposed protocol.</p>

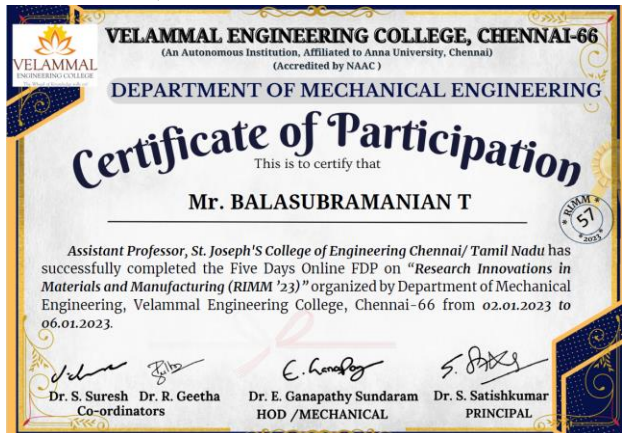


Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
3	<p>An efficient MFM-TFWO approach for unit commitment with uncertainty of DGs in electric vehicle parking lots</p> <p>Article type: Research Article            Authors: Gnanaprakasam, C.N.<sup>1</sup>   Brindha, G.*   Gnanasoundharam, J.   Ahila Devi, E.<sup>2</sup>            Affiliations: [a] Department of Electronics and Instrumentation Engineering, St. Joseph's College of Engineering, Chennai, Tamilnadu, India   [b] Department of Instrumentation and Control Engineering, St. Joseph's College of Engineering, Chennai, Tamilnadu, India            Correspondence: (*) Corresponding author: C. N. Gnanaprakasam, Associate Professor, Department of Electronics and Instrumentation Engineering, St. Joseph's College of Engineering, Chennai, Tamilnadu, India. E-mail: gnanecng@gmail.com</p> <p>Abstract: In this paper propose an efficient hybrid approach for resolve the issues based on unit commitment model integrated with electric vehicles considering the responsive load. The proposed hybrid approach is the combined performance of both the Multi-fidelity meta-optimization and Turbulent Flow of water based optimization (TFWO) and later it is known as MFM-TFWO method. The major objective of proposed approach is reduction of operational costs, reduction of real power losses, and reduction of emissions and improve the voltage stability index. The proposed system is incorporated with wind turbine and photovoltaic, electrical and thermal energy storage systems. The MFM approach is performed for the optimization of the best combination of thermal unit depend on uncertainty; cost minimization, constraints of the system. For capturing the uncertainty and ensuring the demand satisfaction is performed by the TFWO approach. The proposed approach evaluates the impact of the stochastic behavior of electric vehicles and responsive load of the demand side management. The proposed method considers the uncertainty of PV, wind, thermal, electrical demands, and electric vehicles. At last, the proposed model is actualized in MATLAB/Simulink platform and the performance is compared with other techniques. The simulation results depicted that electric vehicles and responsive loads on energy management is decreasing the operation cost and emissions.</p> <p>Keywords: Operational costs, active power losses, emissions, voltage stability index, combined cooling heating and power, electric vehicle, responsive loads, energy storage</p> <p>DOI: 10.3233/JIFS-220810            Journal: Journal of Intelligent &amp; Fuzzy Systems, vol. 43, no. 6, pp. 7485-7510, 2022            Published: 11 November 2022</p> <p><b>Co-author:            J.Gnanasoundharam            published a patent</b></p>	<p><b>Staff Paper Publication</b></p> <p><i>C. N. Gnanaprakasam, G. Brindha, J.Gnanasoundharam and E.A. Devi, “An efficient MFM-TFWO approach for unit commitment with uncertainty of DGs in electric vehicle parking lots”, Journal of Intelligent &amp; Fuzzy Systems, Publisher: IOS Press, Print ISSN: 1064-1246, E ISSN: 1875-8967, DOI: 10.3233/JIFS-220810 vol. 43, no. 6, pp. 7485-7510, Nov 2022. (Indexed in WOS, Annexure I, Impact Factor: 1.737)</i></p> <p><b>Abstract:</b> In this paper proposes an efficient hybrid approach for resolve the issues based on unit commitment model integrated with electric vehicles considering the responsive load. The proposed hybrid approach is the combined performance of both the Multi-fidelity meta-optimization and Turbulent Flow of water based optimization (TFWO) and later it is known as MFM-TFWO method. The major objective of proposed approach is reduction of operational costs, reduction of real power losses, and reduction of emissions and improves the voltage stability index. The proposed system is incorporated with wind turbine and photovoltaic, electrical and thermal energy storage systems. The MFM approach is performed for the optimization of the best combination of thermal unit depend on uncertainty; cost minimization, constraints of the system. For capturing the uncertainty and ensuring the demand satisfaction is performed by the TFWO approach. The proposed approach evaluates the impact of the stochastic behavior of electric vehicles and responsive load of the demand side management. The proposed method considers the uncertainty of PV, wind, thermal, electrical demands, and electric vehicles. At last, the proposed model is actualized in MATLAB/Simulink platform and the performance is compared with other techniques. The simulation results depicted that electric vehicles and responsive loads on energy management is decreasing the operation cost and emissions.</p>
4	 <p><b>Dr. Lilly Ramesh published a paper</b></p>	<p><b>Staff Paper Publication</b></p> <p><b>Lilly Ramesh, S. Radhika and S. Jothi, “Hybrid support vector machine and K nearest neighbor based software testing for educational assistant”, Concurrency and Computation: Practice and Experience, Publisher: Wiley, E ISSN: 1532-0634, https://doi.org/10.1002/cpe.7433, Vol. 35, No. 1, Jan 2023. (Indexed in WOS, Impact Factor: 1.831, SCI Extended, Annexure-I).</b></p> <p><b>Abstract:</b> In terms of training students for work in diverse firms, traditional and out-of-date teaching techniques cannot compete with digital teaching methods. To overcome this problem, the teaching approach and content must be changed. An Educational Assistant for Software Testing (EAST) framework is developed in this work to train students to improve their skills in software testing via Computer Assisted Instruction (CAI) built using Natural Language Processing (NLP), Machine learning, and information retrieval techniques. In this paper, a Group Search Optimized two-stage hybrid Support Vector Machine-K-Nearest Neighbor (SVM-KNN) classifier is used to develop a novel approach for analyzing the parameters that introduce bugs in bug reports. To decrease the data sparsity problem, the group search optimization (GSO) algorithm is used to improve the parameter selection process of the two-stage hybrid classifier by generating optimal values for parameters such as k, c, and gamma. Two bug report datasets were used to test the model. The database for our application is built by collecting bug reports from a wide open-source community as well as several mobile application development companies. Based on the extensive experiments conducted via different performance metrics, we can conclude that the EAST framework can improve outdated teaching methodologies.</p>

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
5	 <p style="text-align: center;"><b>Ms. M. Nivethitha Devi</b> published a patent</p>	<p style="text-align: center;"><b><u>Patent Published</u></b></p> <p><b>Title of the invention :</b> IoT and cloud-based Smart women protection and security system with alert message or call to the control by voice sensing in recognizing the keywords or emotional words</p> <p><b>Name of Inventor :</b></p> <ol style="list-style-type: none"> <li>1 . Mrs. M. Nivethitha Devi</li> <li>2 . Dr. G. Kiruthiga</li> <li>3 . Tariq Hussain</li> <li>4 . A. Sunil Samson</li> <li>5 . Prasanna Divyaraj</li> <li>6 . Bhawana Chaudhary.</li> </ol> <p><b>Patent Number:</b> 202241070728  <b>Date of filing of Application :</b> 7/12/2022  <b>Publication Date:</b> 30/12/2022</p>
6	 <p style="text-align: center;"><b>Dr. V.Muthulakshmi, R. Deepa, K. Priyadharshni, M. Janani</b> published a patent</p>	<p style="text-align: center;"><b><u>Patent Published</u></b></p> <p><b>Title of the invention :</b> IoT and cloud technology based effective framework for ensuring the well-being of the Street Sweepers</p> <p><b>Name of Inventor :</b></p> <ol style="list-style-type: none"> <li>1 . Dr.V.Muthulakshmi</li> <li>2 . Ms.R.Deepa</li> <li>3 . Ms.K.Priyadharshini</li> <li>4 . Ms. M Janani</li> </ol> <p><b>Patent Number:</b> 202241071741  <b>Date of filing of Application :</b> 12/12/2022  <b>Publication Date:</b> 30/12/2022</p>

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution										
7	 <p style="text-align: center;"><b>Ms. J. Gnanasoundharam</b> published a patent</p>	<p style="text-align: center;"><b><u>Patent Published</u></b></p> <p><b>Title of the invention :</b> Systematic Approach for Monitoring the Pollution Control in Smart Cities and Addressing the Security Challenges Integrated with IoT</p> <p><b>Name of Inventor :</b></p> <ol style="list-style-type: none"> <li>1 . Dr. Vikash Dubey</li> <li>2 Ms. J. Gnanasoundharam</li> <li>3 . Dr. Mahipal Singh</li> <li>4 . Mr. Ramanuj Tewari</li> <li>5 . Dr. Mehul Manu</li> <li>6 . Dr. Sheshang Degadwala</li> </ol> <p><b>Patent Number:</b> 202211069831</p> <p><b>Date of filing of Application :</b> 3/12/2022</p> <p><b>Publication Date:</b> 30/12/2022</p>										
8	 <p style="text-align: center;"><b>FDP Certificate</b></p>	<p style="text-align: center;"><b>Online FDP Attended by Faculty</b></p> <table border="1" data-bbox="735 885 1974 1096"> <thead> <tr> <th>S.No</th> <th>Title of the topic</th> <th>Name of the Staff</th> <th>Conducted By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>International FDP on Bioinspired Optimization Techniques</td> <td>J. Gnanasoundharam M.Nivethitha Devi</td> <td>Department of Electronics and Instrumentation Engineering, Easwari Engineering College, Chennai</td> <td>04-01-23 to 10-01-23 (6 days)</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	International FDP on Bioinspired Optimization Techniques	J. Gnanasoundharam M.Nivethitha Devi	Department of Electronics and Instrumentation Engineering, Easwari Engineering College, Chennai	04-01-23 to 10-01-23 (6 days)
S.No	Title of the topic	Name of the Staff	Conducted By	Date								
1.	International FDP on Bioinspired Optimization Techniques	J. Gnanasoundharam M.Nivethitha Devi	Department of Electronics and Instrumentation Engineering, Easwari Engineering College, Chennai	04-01-23 to 10-01-23 (6 days)								

## DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	Paper Published:	<ul style="list-style-type: none"> <li>➤ “Performance evaluation of cryogenic treated and untreated brass electrode in wire-EDM”, , <b>N.E.Arun Kumar</b>, A Suresh Babu, <b>M Subramanian</b>, <b>R Elakkiyadasan</b>, Materials and Manufacturing Processes,.</li> </ul>
2	FDP ATTENDED 	<ul style="list-style-type: none"> <li>➤ <b>Mr.T.Balasubramanian</b> participated in Five days Online FDP on “<i>Research Innovation in Materials and Manufacturing</i>” at Velammal Engineering College,Chennai-66 during the period of 02.01.2023 to 06.01.2023.</li> <li>➤ <b>Mr.V.Ashok Kumar</b> participated in Five days Online FDP on “<i>Research Innovation in Materials and Manufacturing</i>” at Velammal Engineering College,Chennai-66 during the period of 02.01.2023 to 06.01.2023.</li> <li>➤ <b>Mr.M.Ganesh</b> participated in Five days Online FDP on “<i>Research Innovation in Materials and Manufacturing</i>” at Velammal Engineering College,Chennai-66 during the period of 02.01.2023 to 06.01.2023</li> </ul>



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# St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

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Jeppiaar Educational Trust

OMR, Chennai - 119.



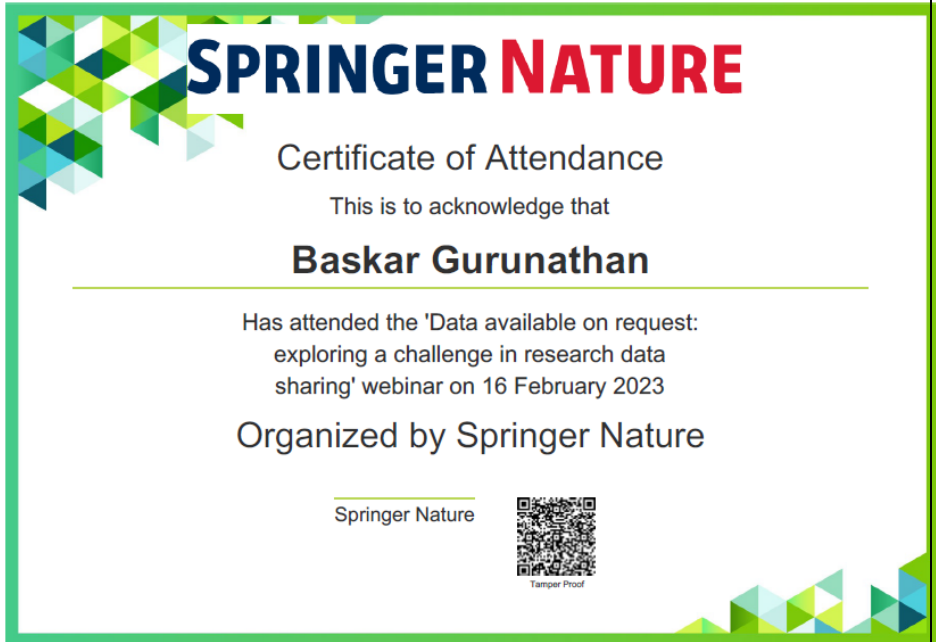
FEBRUARY 2023

## DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event																																																																											
	<p><b>COMPETITIONS ATTENDED BY STUDENTS</b></p> <p><b>CONGRATULATIONS</b> College Day Celebrations - III year (2022-23)</p> <p>The Management, Principal and Faculty members are happy to congratulate the following Teams for winning the "Best Performance with Cash award" in College Day Events, held on 25<sup>th</sup> Feb 2023.</p> <table border="1" data-bbox="325 844 766 1315"> <thead> <tr> <th>S. No.</th> <th>Dept</th> <th>Team Name</th> <th>Name of the Students</th> <th>Prize Amount</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>ECE</td> <td>Natya Lahari</td> <td>Sai Priyadarshini, J. Elackani, U. K. Archana, P.V. Kiruthika, K.P. Shruthika, V. Yazhini, M. S</td> <td>Rs. 3000/-</td> </tr> <tr> <td>2.</td> <td>ECE</td> <td>Bang Gang</td> <td>Prasanth, S, Prasanna Kumar, K, Vignesh, R, Vasanth, M, Kishore Parthi, K. S, Kausik, V, Srikanth, P, Mukesh, M</td> <td>Rs. 3000/-</td> </tr> <tr> <td>3.</td> <td>ICE &amp; EIE</td> <td>Passion Dance</td> <td>Manoj Kumar, T, Aravazhi, T.A, Bharadwaj, S, Gunasekar, T, Jenix Anockkaraaj, J, Praveen, M, Dilon, B, Sharon Rosane</td> <td>Rs. 3000/-</td> </tr> <tr> <td>4.</td> <td>EEE</td> <td>Indian Army (Black square)</td> <td>Ashik Remon, C, Sanjeev, A, Dhruvish, K, Alwyn Samuel, M, Harsharan, N, Abdul Basith, M, Harry Jatin, S, Dinakaran, S, Farazan Ahmed, Y, Buvavarampu Naveen, Bharathraj, M</td> <td>Rs. 3000/-</td> </tr> <tr> <td>5.</td> <td>EEE</td> <td>V(Classical)</td> <td>Aruna Devi, S, Haritha Mohandas</td> <td>Rs. 3000/-</td> </tr> <tr> <td>6.</td> <td>IT</td> <td>Blitzdaws</td> <td>Anockiya Infanta Sheryl, B, Gayathri, V, Harshitha, T, Janane, J, M, Samvarthini, V, Sheryl Joanna, S, Suruthi, M, Sweetha, T, R, Tharan Kumar, G, D, Varshini, S</td> <td>Rs. 3000/-</td> </tr> <tr> <td>7.</td> <td>IT</td> <td>90's kids</td> <td>Dharani, D, Jagadheesan, D, Achuth Mahesh, Srinath, R, Sai Sharvesh, R, Subhagiri, P</td> <td>Rs. 3000/-</td> </tr> <tr> <td>8.</td> <td>CSE</td> <td>Saranga Darjya</td> <td>Shevanie Shupreya, P, Vishali, A, Yuvashree, S, Savari Rhea Charis, Ponsritharini, V, Saastri, V. N, Priyadarshini, S, Prashella, S</td> <td>Rs. 3000/-</td> </tr> <tr> <td>9.</td> <td>CSE</td> <td>Dancing Divas</td> <td>Gayathri, N, Anjana Kis, Ekharani Manne, Harne, M, Yazhini Devi, G, K, V</td> <td>Rs. 3000/-</td> </tr> <tr> <td>10.</td> <td>MBA</td> <td>Work Life</td> <td>Vignesh, S, Kamalakannan, R, Vishnu Prasanth, R, Joel Peter, Dinesh, M, Gowtham Kumar, A.S, Rakesh Vasun, P, K, Haavith, B, Pradnan, R</td> <td>Rs. 3000/-</td> </tr> <tr> <td>11.</td> <td>MECH</td> <td>Broken Boyz</td> <td>Abhishek Ananth, P, Anic Ruance, R, Ruban, V, Harsharan, P, Abhishek, P, A</td> <td>Rs. 3000/-</td> </tr> <tr> <td>12.</td> <td>BIOTECH</td> <td>Passion Queens</td> <td>Monica, S, Vasanthi, V, Varsha, J, Geethanjali, S, Samyuktha, T, Gokula Indira, V, Antonette Jessica, Nethra, S, U, Yuvasri, R, Radhi Shankari, G</td> <td>Rs. 3000/-</td> </tr> <tr> <td colspan="5" style="text-align: center;"><b>Special Prize</b></td> </tr> <tr> <td>13.</td> <td>BIOTECH</td> <td>Ghost Govaha</td> <td>Sivaranjani, C, Ashwarya, K, Hemavarshini, K, Yuvashree, K, Dhurshini, G, Shivadarshini, M, Gunajayani, G, Sujitha, E, Teja Rholline, S, A</td> <td>Rs. 5000/-</td> </tr> </tbody> </table> <p style="text-align: right;">Chairman</p>	S. No.	Dept	Team Name	Name of the Students	Prize Amount	1.	ECE	Natya Lahari	Sai Priyadarshini, J. Elackani, U. K. Archana, P.V. Kiruthika, K.P. Shruthika, V. Yazhini, M. S	Rs. 3000/-	2.	ECE	Bang Gang	Prasanth, S, Prasanna Kumar, K, Vignesh, R, Vasanth, M, Kishore Parthi, K. S, Kausik, V, Srikanth, P, Mukesh, M	Rs. 3000/-	3.	ICE & EIE	Passion Dance	Manoj Kumar, T, Aravazhi, T.A, Bharadwaj, S, Gunasekar, T, Jenix Anockkaraaj, J, Praveen, M, Dilon, B, Sharon Rosane	Rs. 3000/-	4.	EEE	Indian Army (Black square)	Ashik Remon, C, Sanjeev, A, Dhruvish, K, Alwyn Samuel, M, Harsharan, N, Abdul Basith, M, Harry Jatin, S, Dinakaran, S, Farazan Ahmed, Y, Buvavarampu Naveen, Bharathraj, M	Rs. 3000/-	5.	EEE	V(Classical)	Aruna Devi, S, Haritha Mohandas	Rs. 3000/-	6.	IT	Blitzdaws	Anockiya Infanta Sheryl, B, Gayathri, V, Harshitha, T, Janane, J, M, Samvarthini, V, Sheryl Joanna, S, Suruthi, M, Sweetha, T, R, Tharan Kumar, G, D, Varshini, S	Rs. 3000/-	7.	IT	90's kids	Dharani, D, Jagadheesan, D, Achuth Mahesh, Srinath, R, Sai Sharvesh, R, Subhagiri, P	Rs. 3000/-	8.	CSE	Saranga Darjya	Shevanie Shupreya, P, Vishali, A, Yuvashree, S, Savari Rhea Charis, Ponsritharini, V, Saastri, V. N, Priyadarshini, S, Prashella, S	Rs. 3000/-	9.	CSE	Dancing Divas	Gayathri, N, Anjana Kis, Ekharani Manne, Harne, M, Yazhini Devi, G, K, V	Rs. 3000/-	10.	MBA	Work Life	Vignesh, S, Kamalakannan, R, Vishnu Prasanth, R, Joel Peter, Dinesh, M, Gowtham Kumar, A.S, Rakesh Vasun, P, K, Haavith, B, Pradnan, R	Rs. 3000/-	11.	MECH	Broken Boyz	Abhishek Ananth, P, Anic Ruance, R, Ruban, V, Harsharan, P, Abhishek, P, A	Rs. 3000/-	12.	BIOTECH	Passion Queens	Monica, S, Vasanthi, V, Varsha, J, Geethanjali, S, Samyuktha, T, Gokula Indira, V, Antonette Jessica, Nethra, S, U, Yuvasri, R, Radhi Shankari, G	Rs. 3000/-	<b>Special Prize</b>					13.	BIOTECH	Ghost Govaha	Sivaranjani, C, Ashwarya, K, Hemavarshini, K, Yuvashree, K, Dhurshini, G, Shivadarshini, M, Gunajayani, G, Sujitha, E, Teja Rholline, S, A	Rs. 5000/-	<p>Third year biotech students Monica, Vasanthi, varsha, Geethanjali, Samyuktha, Gokula indhira, Antonette Jessica, Nethra, Yuvasri, Radhi Shankari participate in College day events and won a prize of Rs. 3000</p> <p>Third year biotech students Sivaranjani, Aishwarya, Hemavarshini, Yuvashree, Dharshini, Shivadarshini, Gunajayani, Sujitha and Teja Rholline participate in College day events and won a special prize of Rs. 5000/-</p>
S. No.	Dept	Team Name	Name of the Students	Prize Amount																																																																									
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	<p><b>PUBLICATIONS(ONLY PUBLISHED) DETAILS</b></p>	<ul style="list-style-type: none"> <li>Dr. G. Baskar published a paper on, Identification of novel inhibitor against Human Phosphoethanolamine Cytidylyl transferase from phytochemicals of Citrus sinensis peel extract by in vitro and in silico approach, <b>Biotechnology</b></li> </ul>																																																																											



	<p>Received: 22 August 2022   Accepted: 11 February 2023 DOI: 10.1002/bab.2453</p> <p>ORIGINAL ARTICLE</p> <p><b>Identification of novel inhibitor against human phosphoethanolamine cytidyltransferase from phytochemicals of <i>Citrus sinensis</i> peel extract by in vitro and in silico approach</b></p> <p>Priscilla Pushparani Victor<sup>1</sup>   Radhakrishnan Narayanaswamy<sup>2</sup>   Seifedine Kadry<sup>3,4,5</sup>   Baskar Gurunathan<sup>3,6</sup></p> <p><sup>1</sup>Department of Biotechnology, St. Peter's College of Engineering and Technology, Chennai, India <sup>2</sup>Department of Biochemistry, Saveetha Medical College and Hospital, SIMATS, Chennai, India <sup>3</sup>Department of Applied Data Science, Noroff University College, Kristiansand, Norway <sup>4</sup>Artificial Intelligence Research Center (AIRC), Ajman University, Ajman, United Arab Emirates</p> <p><b>Abstract</b> Kidney stone is a major global menace that demands research on nonsurgical treatment involving biological compounds for the benefit of the patients. Among the biological extracts, citric acid is traditionally used to dissolve kidney stones. The current research focuses on evaluating the in vitro anti-urolithiatic activity and in silico study of ethanolic extract of <i>Citrus sinensis</i> (ECS) peel against c: phosphoethanolamine cytidyltransferase (PCYT). The diuretic activity was evaluated using in vitro model against the synthesized calcium oxalate monohydrate and cytotoxicity study in Madin-Darby canine kidney cell lines. The</p>	<p>and Applied Biochemistry. (2023) DOI:10.1002/bab.2453 (IF-2.724).</p>
	<p><b>STAFF CONFERENCE PRESENTATION</b></p>	<ol style="list-style-type: none"> <li>1. Dr. G. Baskar attended the 'Data available on request: exploring a challenge in research data sharing' webinar on 16 February 2023.</li> <li>2. Ms. Yuwvaranni New Application Filed, Application Number-202341011517, Application Ref Number-202341011517, Filing Date-20/02/2023 -Indian Patent Office</li> <li>3. Ms.Yuwvaranni.S has guided the students for their project titled Nano Biotechnology - A fasinating Supertool in Innovation Challenge - 2K23 held on 27th Febuarry at Aarupadai Veedu Institute of Technology</li> </ol>



*Dr. G. Baskar certifiacte copy*

<b>FORM 1</b> <b>THE PATENTS ACT 1970</b> (39 of 1970) & The Patents rules, 2003 <b>APPLICATION FOR GRANT OF PATENT</b> [See section 7, 54 & 135 and rule 20 (1)]		<b>(FOR OFFICE USE ONLY)</b> Application No: Filing Date: Amount of Fee Paid: CBR No: Signature:			
<b>I. APPLICANT'S REFERENCE / IDENTIFICATION</b> NO. (AS ALLOTTED BY OFFICE)					
<b>2. TYPE OF APPLICATION</b> [Please tick (✓) at the appropriate category]					
Ordinary (✓)		Convention ( )		PCT-NP ( )	
Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )
<b>3. (3A) APPLICANT</b>					
Name		Nationality	Country of Residence	Address	
Ms. Yuwvaranni.S		Indian	India	Assistant Professor, St. Joseph's College of Engineering, Department of Biotechnology, OMR, Chennai. Pin: 600119 District: Kanchipuram State: Tamilnadu Country: India	

*Ms. Yuwvaranni patent filing certiifcate copy*



VINAYAKA MISSION'S  
RESEARCH FOUNDATION  
Deemed to be University under section 3 of the UGC Act 1956



Accredited with  
A Grade by AACSB



AVIT  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY

Institution's Innovation Council

Innovation Challenge - 2k23



Certificate of Appreciation

This is to certify that Mr./Ms./Dr. YUWVARANNI S ST. JOSEPH'S COLLEGE  
OF ENGINEERING  
has guided the students for their project titled NAND-BIOTECHNOLOGY-A FASCINATING  
SURFTOOL on the Innovation Challenge - 2K23 held on

February 27<sup>th</sup>, 2023 at Aarupadai Veedu Institute of Technology.

Dr. L. Chitra  
IIC Vice President & HoD, EEE

Dr. Prabhu  
IIC President & VP Admin

Dr. G. Selvakumar  
Principal, AVIT

*Ms. Yuwvaranni certifiicate copy*

## DEPARTMENT OF CHEMICAL ENGINEERING

Title of the Events and Photographs	Details of the Event
<b>INDUSTRIAL VISIT</b>	-IIIrd Year Chemical students (47 students) have visited <b>Crimson Organic Pvt Ltd., Cuddalore.</b> on <b>07.02.2023</b>
<b>GUEST LECTURE</b>	- <b>22.02.2023 - Guest Lecture</b> Resource person: <b>Mr. Manoj Kumar</b> HSE - Manager, SGS India Pvt Ltd.
<b>STAFF CONFERENCE PRESENTATION</b>	- <b>Dr. Senthil Rathi, Assistant Professor</b> along with students has presented 7 papers in <b>7th International Conference</b> On Recent Advancements in Chemical, Environmental and Energy Engineering (RACEEE-2023) On 16 & 17th FEBRUARY 2023
<b>PATENT</b>	- <b>Dr. Vinod Kumar.S,</b> Patent on “ <i>VLSI LAYOUT USING REDUNDANT NODES TO INCREASE THE RELIABILITY</i> ” has been Publish on 24.02.2023 (The Patent Office Journal No. 08/2023 Dated 24/02/2023)




# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	A one Day Event on “Designathon”	
	 <p>The poster for 'Designathon' is for the Department of Computer Science &amp; Engineering &amp; Artificial Intelligence &amp; Data Science, organized by the Eye on Designs Club. It is for 2<sup>nd</sup> years students. The event is held on 17/02/2023 from 10 am to 1 pm in the Placement Block (Basil Hall). The registration link is <a href="https://forms.gle/dDBYNs0Bj1u3.k6">https://forms.gle/dDBYNs0Bj1u3.k6</a>. The chief patron is Dr. B. Babu Manoharan M.A., M.B.A., Ph.D., and the patron is Mr. S. Shashi Sekar M.Sc. Other staff and student coordinators are also listed.</p> <p>The photograph shows a large hall with many students sitting at tables, working on laptops. Some students are looking at their screens, while others are talking to each other. The room has a blue and white color scheme.</p>	<p><b>Date</b> : 17.02.2023  <b>Venue</b> : Basil Hall  <b>Nature of Event</b> : Web Design Competition  <b>Participants</b> : Engineering II year Students (CSE &amp; ADS)  <b>Organized by</b> : Eye on Designs Club</p> <p><b>Objective:</b></p> <ul style="list-style-type: none"> <li>To get exposure on Web Designing (HTML, CSS, Bootstrap, Javascript)</li> </ul> <p><b>Outcome:</b></p> <ul style="list-style-type: none"> <li>Gained knowledge about the fundamentals of web development.</li> <li>Developed a fully functioning personal blog.</li> <li>Created visualizations in accordance with UI/UX theories.</li> </ul>

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail					
1.	<b>Workshop/STTP Organised</b>	S.No.	Faculty Name	Workshop/STTP Organised	Topic	Date	Link
		1.	Dr.V.Vijayan Dr.B.Senthil Kumar	Guest Lecture	Recent Trends, Issues and Challenges inInstrumentation Technology	11-02-2023	<a href="https://drive.google.com/file/d/1D2LDyOKo7FrbHiWbi6cu48a_eL_SSrxk/view?usp=share_link">https://drive.google.com/file/d/1D2LDyOKo7FrbHiWbi6cu48a_eL_SSrxk/view?usp=share_link</a>
		2.	Dr.V.Vijayan Mr.D.Sankaran	Seminar	Introduction to AR/VR	13-02-2023	<a href="https://drive.google.com/file/d/1Lmze7jUOg_Idt5p4TAKacuxMi1Kac3h0/view?usp=share_link">https://drive.google.com/file/d/1Lmze7jUOg_Idt5p4TAKacuxMi1Kac3h0/view?usp=share_link</a>
		3.	Dr.S.Meena Mr.D.Sankaran	One day Workshop	Robort Design Made Easy	14-2-2023	<a href="https://drive.google.com/file/d/1YE5vIXT8laDdAK_rOinKHhDICjjaPd1Q/view?usp=share_link">https://drive.google.com/file/d/1YE5vIXT8laDdAK_rOinKHhDICjjaPd1Q/view?usp=share_link</a>
		4	Dr.S.Meena Mr.D.Sankaran	Mini Project Expo	Modelling and Simulation tool	17-02-2023	<a href="https://drive.google.com/file/d/1kC2rRz4YryopiyD5R_LMZp5eUIqbXFYI/view?usp=share_link">https://drive.google.com/file/d/1kC2rRz4YryopiyD5R_LMZp5eUIqbXFYI/view?usp=share_link</a>
		5	Dr.V.Vijayan Dr.B.Senthil Kumar	Mini Project Expo	Application using Arduino	21-02-2023	<a href="https://drive.google.com/file/d/11hGdoxLAJdJpFVcdxDb-HppYp1-bHnms/view?usp=share_link">https://drive.google.com/file/d/11hGdoxLAJdJpFVcdxDb-HppYp1-bHnms/view?usp=share_link</a>


## DEPARTMENT OF MATHEMATICS

Events	Remarks						
	S.No	Name of the staff	Title of FDP	Organized by	Mode	From	To
	1	Mr.S.Manikanda prabhu	Application of Statistics in Engineering and Data Science	Rajalakshmi Engineering College, Chennai	Physical	2023-01-05	2023-01-05
	2	Dr. Arul Perum Jothi					
	3	Dr.K.Abinaya	One week Online National FDP on Indian Knowledge Systems	Council for Teacher Education Foundation, Delhi	Online	2023-01-02	2023-01-08
	4	Ms.S.Sarayu Priyadharshini					
	5	Dr.U.Venkateswara					
	6	Mr.S.M.Balaji	Advanced trends in mathematical modelling	Easwari engineering college, Chennai	Online	2023-01-09	2023-01-13
	7	Ms.B.Shoba					
	8	Dr.K.Sasikala					
	9	Mr.Chellamani					
<b>Publications(only published) details</b>	<ol style="list-style-type: none"> <li><b>P. Agilan</b> , Mohammed M. A. Almazah , K. Julietraja and Ammar Alsinai. Classical and Fixed Point Approach to the Stability Analysis of a Bilateral Symmetric Additive Functional Equation in Fuzzy and Random Normed Spaces. Mathematics , January 2023, Volume 11, No. 3, pp: 1-19, <a href="https://doi.org/10.3390/math11030681">https://doi.org/10.3390/math11030681</a> , SCIE</li> <li>T. Kalyani,K. <b>Sasikala</b>,D. G. Thomas, K. Bhuvaneshwari, Adjunct Partial Array Token Petri Net Structure, Lecture notes in computer science, January 2023,Vol 13348, <a href="https://doi.org/10.1007/978-3-031-23612-9_12">https://doi.org/10.1007/978-3-031-23612-9_12</a>, SCOPUS</li> <li>S. Ghousia Begum , N. <b>Jose Parvin Praveena</b>, A. Rajkumar, D. Nagarajan, Broumi Said, Analyses the least cost using Travelling Salesman problem through Neutrosophic Fuzzy system, International Journal of Neutrosophic Science.</li> </ol>						

January 2023, Vol 20, No. 1, Pp:68-76, <https://doi.org/10.54216/IJNS.200106>, SCOPUS

4. Gunasekar Tharmalingam, Kathavarayan Ponnusamy, Murugan Govindhan, **Julietraja Konsalraj**, On Certain Degree Based and Bond Additive Molecular Descriptors of Hexabenzocorene, Biointerface Research in Applied Chemistry, January 2023, Vol 13, No.5, pp.1-14, 2603020013, Pp:1-4, <https://doi.org/10.33263/BRIAC135.495>, SCOPUS, WOS
5. Saikumari N, Krishnamoorthy P, **Sudhakar K S**. Advanced Features of the Developed Digital Library to Supplement Conventional Information Access: A Perceptive View, International Journal of Information Studies, January 2023, Vol 15, No. 1, Pp:1-19, <https://doi.org/10.6025/ijis/2023/15/1/14-20> , SCOPUS
6. R. Balapriya, A. Thiripuram, **S. Annadurai**, G. Arul Freeda Vinodhini. Mathematical Techniques and applications of linear differential equation, International journal of computer mathematics, January 2023, Vol 2023, No. 100, Pp:1-14, <https://doi.org/10.1080/00207160.2022.2164491> , SCIE

## DEPARTMENT OF MECHANICAL ENGINEERING

SI No	Name of the Activity	Remarks
1	<p>Book chapter Published:</p>  <p>Chapter</p> <p>An intuitive and structured detection system for facial mask using YOLO and VGG-19 to limit COVID-19</p> <p><i>By M. Diviya, N. Hemapriya, B.S. Charulatha, M. Subramanian</i></p> <p>Book <a href="#">Recent Advances in Material, Manufacturing, and Machine Learning</a></p> <p>Edition            1st Edition</p> <p>First Published    2023</p> <p>Imprint            CRC Press</p> <p>Pages                8</p> <p>eBook ISBN        9781003358596</p>	<p>➤ <b>Mr..M.Subramanian</b> published a paper on “<b>An intuitive and structured detection system for facial mask using YOLO and VGG-19 to limit COVID-19</b>” in International conference titled <i>Recent Advances in Material, Manufacturing and Machine Learning</i></p>





## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	FDP/Workshop/Conference	<p><b><u>Chaired Session:</u></b> 1. Dr. S. Suresh has acted as Session Chariman for “International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences (ICATCHCOME 2023)” conducted by “KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu” held between 9.02.23 and 10.02.23</p> <p><b><u>Participated</u></b> 1. Dr. G. Sasikumar has attended International Virtual conference on “Multidisciplinary aspects in chemistry (ICMAC-2023)” conducted by “Sri Ramakrishna College of Arts and Science, Coimbatore” held between 9.02.23 and 10.02.23 2. Dr. S. Suresh, Dr. V. Swarnalatha attended International webinar on “Breaking barriers in science” conducted by “Jagat Arts, Commerce and Science College, Goregaon” hled on 14.02.23. 3. Mr. S. Kaleel Mohamed Ibrahim, Dr. G. Murugan, Dr. V. Swarnalatha, Dr. P. Saravanan, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Ms. J. Sharmila, Ms. S. Savitha, Dr. B. Subash, Dr. S.M. Prakash, Dr. G. Sasikumar attended “Five Days International Virtual Seminar on Chemistry – 2023” conducted by “Sree Chandrababu Jain College, Minjur, Chennai” held from 18.02.23 to 24.02.23.</p>
2	Value added Courses/Courses other than VAC	1. Dr. K. Jayamoorthy completed Udeemy course on “Ethics of Research-A Basic Course” on 18.02.23.
3	Awards/Prize won by students / Staff	<p>Reviewers: Dr. K. Jayamoorthy has acted as reviewer for the following reputed journals.</p> <ol style="list-style-type: none"> <li>1. Journal of Biomolecular Structure &amp; Dynamics– Feb 2023</li> <li>2. Environmental Advances– Feb 2023</li> <li>3. Current Organic Chemistry– Feb 2023</li> <li>4. Brazilian Journal of Biology– Feb 2023</li> </ol>
4	Publications(only published) details	1. Dr. K. Jayamoorthy, Dr. N.R. Rajagopalan, Dr. S.M.Prakash, Dr. B. Subash, Dr. G.

		Murugan published a paper titled “Catalytic synthesis and characterization of aryl benzimidazole and its interaction with TiO <sub>2</sub> nanoparticles: ESIPT process” in the journal “Chemical Physics Impact”, 6 (2023) 100184, <a href="https://doi.org/10.1016/j.chphi.2023.100184">https://doi.org/10.1016/j.chphi.2023.100184</a>

## DEPARTMENT OF CIVIL ENGINEERING


Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	<b>Collaborative Quality initiatives with other institutions</b>	●
2.	<b>Industrial Visits, In plant trainings, Internships</b>	<p><b>III</b> year students (Batch:2020-2024) visited <b>AH blocks</b> manufacturing unit at <b>Mangadu</b> on <b>8th February 2023</b> to learn about the manufacturing of concrete blocks. Dr K.Vijai and Ms.Ruthra accompanied the students.</p>  <p><b>II</b> year students (Batch: 2021-25) visited <b>Casagrand Platinam project site at Padappai</b> to learn about the construction process of Villa buildings on <b>16<sup>th</sup> February 2023</b>.Dr .Gowri, Ms.Adlin Rose and Mr.S.P.Senthil Kumar accompanied the students.</p>

		
3.	<p><b>Guest Lecture / Webinar Organized</b></p>	<p><b>II Year</b>  A guest lecture on <i>INTRODUCTION TO PILE FOUNDATION</i> was held at AV HALL LIBRARY of St. Joseph's on 21<sup>st</sup> February, 2023 (Tuesday) from 10:00 am to 11:30 am. The guest was <b>Mr. Vimalesh Vedachalam, CEO, Veda Pile Foundation, Mogappair, Chennai – 37</b>. Totally 59 second year students of Civil Engineering have participated. The guest enlightened the students on pile basics and its relevance in current scenario. The program was coordinated by Ms. R.Adlin Rose.</p>



### **III YEAR**


A guest lecture on *GREEN BUILDINGS CONCEPT AND OPPORTUNITIES* was held at AV HALL LIBRARY of St. Joseph's on 7<sup>th</sup> February, 2023 (Tuesday) from 10:00 am to 11:30 am IST. The guest was **Mr.G.Jayarajan, M.Tech.,M.B.A.,M.Sc (REV).,F.I.E., Superintending Engineer/Civil, Transmission, TANTRANSCO IP Chairman, IEi, TVLC, Vice President-II, TNEBEA, Joint Secretary, ECI, TNSC - Chennai.** Totally 35 third year students of Civil Engineering have participated. The guest enlightened the students on the importance of LEED based buildings and its importance in developing infrastructure. The program was coordinated by Ms. R.Adlin Rose.

		
4.	<b>Other activities (if any)</b>	<p>Mr.S.P.Senthil Kumar has completed 41.5 hours online course “<b>Construction Methodology Basics in Civil Engineering</b>” on Udeemy platform during February 2023.</p>



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## 1. OPTICA Event:

Project Competition	Report
	<p><b>Report</b></p> <p><i>An Outreach program, "SCHOOL VISIT" exclusively for OPTICA members.</i></p> <p>On February 16th, 2023, the Department of Electronics and Communication Engineering partnered with the SJCE-OPTICA Student Chapter to organize an exclusive outreach program called "SCHOOL VISIT" for SJCE-OPTICA members. Ten teams were selected from the previous project fest event to bring their projects to Vani Vidyalaya, a school located in K.K.Nagar, Chennai. Our enthusiastic second and third-year OPTICA members presented a total of sixteen outstanding working models to the school students. The visit began promptly at 10.30AM and was an excellent opportunity for our members to share their knowledge and inspire the next generation of innovators.</p>


## 2. Publications:

The following staff members have published the research papers during February in Journal at International Level

S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Publication
1.	Jasmine Mystica, K., Martin Leo Manickam, J.	Joint Power and Temperature Aware Routing for implant wireless body area networks	International Journal of Communication Systems	Sci Indexed	February 2023
2.	Ashok C	An Improved Polynomial Rooting-based Method for Solving Non-Trivial Ambiguity in Direction-Finding using an Unfolded Co-prime Linear Array	Signal, Image and Video Processing	Sci Indexed vol.17,pp, 219–226	February 2023



## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	Remarks
1.	 <p data-bbox="527 873 747 893">PIC: IEEE EVENT PIC</p>	<p data-bbox="1037 334 2005 683">IEEE Women in Engineering under St Joseph's College of Engineering Student Branch Chapter organised WIE OFFICE BEARERS meet on January 06, 2023, at 1:40 pm. The event was conducted in Offline Mode. There were a total of 15 participants. The event was organised by Mr.Sreekanth. The notable participants were Ms. Jamuna U(Chairperson of IEEE WIE SJCE SB-2023 along with the affinity group members include Ms. Kaviya, Ms. Madhumalini, Ms. Adirai, Ms. Kanimozhi G, Ms.Harini, Ms. Madhumitha. Ms. Abinayaa Sri T( immediate past Chairperson of IEEE WIE SJCE SB) and Mr. Mohammed Aashik S (immediate past Chairperson of IEEE SJCE SB) also joined with us and shared their experiences. Through this meeting, We discussed the basic criteria about WIE and our plans and the betterment we could make inside our SB to meet out the vision and mission of IEEE WIE.</p>

2.



PIC: IEEE EVENT POSTER.

IEEE Robotics and Automation Society under St Joseph's College of Engineering Student Branch Chapter organised RAS OFFICE BEARERS meet on January 06, 2023, at 1:40 pm. The event was conducted in Offline Mode. There was a total of 15 participants. The event was organised by Mr. Sreekanth. The notable participants were Ms. Aparnaa G(Chairperson of IEEE RAS SJCE SB-2023 along with the society members include , Mr.Raskshit Roshan, Ms. Keerthana, Mr. Gokul Kumar, Mr. Nithin Joel, Mr. Balaji, Ms .Achaya, Ms. Sujitha, Ms. Abina S( immediate past Chairperson of IEEE RAS SJCE SB) also joined with us and shared their experiences. Through this meeting, We discussed the basic criteria about RAS and our plans and the betterment we could make inside our SB to meet out the vision and mission of IEEE RAS.

3.

The poster is for the IEEE Power Electronics Society 2023 Office Bearers Meet. It features the logos of St. Joseph's College of Engineering, IEEE, and the IEEE Power Electronics Society. The text includes the date and time of the event, the names of the Chief Patron and Patrons, and the names of the Convenor, SBC Advisor, and Staff Coordinator. A QR code is provided for more information.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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St. Joseph's Group of Institutions  
OMR, Chennai - 119

**IEEE** in association with  
**IEEE POWER ELECTRONICS SOCIETY**  
Presents

**2023' Office Bearers Meet**

Date: 06.01.2023  
Time: 6.00 to 8.00 pm

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Convenor**  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Staff Affairs

**SBC Advisor**  
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.A., Ph.D. Assistant Professor

**Student Coordinators**  
POOJASREE K | POORNAVIKASH T | NIVAS M | KUMMARAS SHRIRAJ D | SENTHAMIZHSELVAN S | VASANTHAKUMAR S | MICHAEL JESVIN F

Instagram: @ieeepels\_sjce

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact : 91 99401 04883 / 91 99401 04882

The IEEE Power Electronics Society of St. Joseph's College of Engineering conducted the 2023 PELS Office Bearers Meet on 6th Jan 2023, a virtual gathering. R. Elanchezhian, (the immediate past chairperson of PELS SJCE SB) and Divya Lakshmi G ( the immediate past treasure of PELS SJCE SB) joined us in this event and shared their prior experiences with us. They provided the new office bearers with some fantastic advice. The gathering came to a close as everyone exchanged kind words and advice.

PIC: IEEE EVENT POSTER

4.

The poster is for the IEEE Industrial Automation Society 2023 Office Bearers Meet. It features the logos of St. Joseph's College of Engineering, IEEE, and the IEEE Industrial Automation Society. The text includes the date and time of the event, the names of the Chief Patron and Patrons, and the names of the Convenor, SBC Advisor, and Staff Coordinator. A QR code is provided for more information.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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Jeppiaar Educational Trust  
OMR, Chennai - 119.  
Counselling Code :1317

**IEEE** in association with  
**IEEE INDUSTRIAL AUTOMATION SOCIETY**  
PRESENTS

**IAS OFFICE BEARERS MEET-2023**

13

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Convenor**  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Staff Affairs

**SBC Advisor**  
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.A., Ph.D. Assistant Professor

**Student Coordinators**  
IAS Team

Instagram: @ieeepels\_sjce

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact : 91 99401 04883 / 91 99401 04882

IEEE Industrial Automation Society under St Joseph's College of Engineering Student Branch Chapter organised IAS-OFFICE BEARERS meet on January 13, 2023, at 1:40 pm. The event was conducted in Offline Mode. There were a total of 8 participants. The event was organised by Mr.R.Sreekanth. The notable participants were Mr.S.Karthikeyan(Chairperson of IEEE IAS SJCE SB-2023 along with the group members include Mr.M.Shyam sundar, Ms.D.Kavipriya, Ms.S.Prasanna Gnanambiga, Ms. Vijayalakshmi, Mr.K.Sanjai, Mr.Kailash. Through this meeting, We discussed about the upcoming events and future developments in IAS through new ideas, and our plans to betterment we could make inside our SB to meet out the vision and mission of IEEE IAS.



PIC: IEEE EVENT POSTER

5.

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OMR, Chennai - 119

**IEEE** St. Joseph's College of Engineering  
உடன்துறை  
**IEEE SJCE SB மாணவர் மன்றம்**  
பெருமையுடன் வழங்கும்  
**ஒருங்கிணைப்பாளர்கள் கலந்துரையாடல்**

நிகழ்ச்சி தேதி: 06.01.2023  
நேரம்: 1.40 to 3.00pm

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com.,  
Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc.,  
Executive Director, St. Joseph's Group of Institutions

**Dr. V. Vallinayagam** M.Phil., Ph.D.  
Dean (Students Affairs), St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar** M.E., Ph.D.  
Dean (Research), St. Joseph's College of Engineering  
**Dr. C. Sreekumar** M.Sc., M.Tech., Ph.D.  
Dean (Student Activities), St. Joseph's College of Engineering

**Convenor**  
Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - Lab Affairs  
**SBC Advisor**  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Affairs  
**Staff Coordinator**  
Mr. R. Sreekanth M.E., Ph.D.  
Assistant Professor

**Student Coordinators**  
Mani Sha N | Jayasruthi R V | Akshaya Krishnen | Amirtha Varshini M | Godson S V Noble

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882.

PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a office bearer meet “ஒருங்கிணைப்பாளர்கள் கலந்துரையாடல்” related to the development of the tamil mandram development. The event held .on 6th January 2023 between 1:40 pm to 3:00pm about the. The student coordinators for this event are Mani Sha N , Akshaya Krishnan , Amirtha Varshini , Jaya Shruthi , Godson S V Noble.

6.

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OMR, Chennai - 119

**IEEE** | Institute of Electrical and Electronics Engineers

மின் மற்றும் மின்னணு பொறியியல் துறை  
உடன் இணைந்து  
IEEE SJCE SB மாணவர் மற்றும்  
பெருமையுடன் வழங்கும்  
**சொல்லடை**  
---சொல் விளையாட்டுப் போட்டி---

உங்கள் பதிவுகளை  
சமர்ப்பிக்க...  
<https://bit.ly/Gernsueem>

தேதி : 30/01/2023  
நேரம் : 1:40 to 3:00 pm

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**

Mrs. S. Jessie Priya M.Com.  
Managing Director, St. Joseph's College of Institutions

Mr. B. Shashi Sekar M.Sc.  
Executive Director, St. Joseph's Group of Institutions

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Dean (Student Affairs), St. Joseph's College of Engineering

Dr. A. Chandrasekar M.Sc., Ph.D.  
Dean (Academics), St. Joseph's College of Engineering

Dr. C. Sreekumar M.Sc., M.Tech., Ph.D.  
Dean (Administration), St. Joseph's College of Engineering

**Convenor**  
Dr. T.V. Narmadha M.T., Ph.D.  
Professor & Head, IITM

**SBC Advisor**  
Dr. Jayarama Pradeep M.T., Ph.D.  
Professor & Head, IITM

**Staff Coordinator**  
Mr. R. Sreekanth M.T., Ph.D.  
Assistant Professor

**Student Coordinators**  
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a riddle event 'சொல்லடை' related to Tamil Speech on 30th -January 2023 between 1:40 pm to 3:00 pm. Overall, 35 people registered through the registration form and 25 of them participated in the event and best three were given winners' certificates and the others were provided with participation certificates. The first place goes to Linda and Jamuna , second place goes to Sivakumar and Kathiravan , third place goes to Kaviya and Keerthana . The student coordinators for this event are Deepika U ,Jayavarshini M J , Abinaya Priya R A , Shiva D ,Sunil Kumar M.

7.

St. JOSEPH'S COLLEGE OF ENGINEERING  
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IEEE Robotics & Automation Society  
St. Joseph's College of Engineering  
St. Joseph's Group of Institutions

DEPARTMENT OF  
**ELECTRICAL AND ELECTRONICS ENGINEERING**  
in association with  
IEEE ROBOTICS AND AUTOMATION SOCIETY  
presents

**MEGAMIND**

30 January 2023  
6:00 P.M to 7:00 P.M

Open for all  
2nd years

<https://forms.gle/60mEIVt8HCTlyhRDA>

E - Certificates will be provided

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
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Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc.  
Executive Director, St. Joseph's Group of Institutions

**Dr. V. Vallinayagam M.Phil., Ph.D.**  
Dean Students Affairs, St. Joseph's College of Engineering

**Dr. A. Chandra Sekar M.L., Ph.D.**  
Dean Research, St. Joseph's College of Engineering

**Dr. G. Sree Kumar M.Sc., M.Tech., Ph.D.**  
Dean Academics, St. Joseph's College of Engineering

**Convener**  
Dr. T.V. Narmadha M.L., Ph.D.  
Professor & Head, LIB&IA

**SBC Advisor**  
Dr. Jayarama Pradeep M.L., Ph.D.  
Professor & Head, Staff Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.L., Ph.D.  
Assistant Professor

**Student Coordinators**  
Aparnaa | Rakshit Roshan | Keerthana | Balaji | Gokul Kumar | Acharya | Sujitha

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99421 04881 / +91 99421 04882

PIC: IEEE EVENT POSTER

Megamind was organized by IEEE SJCE SBC under IEEE Robotics and Automation Society for the college students. The event was conducted in Google meet It is a amazing debating event Conducted for students to make them to know about world politics and a geopolitical view,conducted on on 27th January 2023. Over 20 students participated in it and are benefited. E-Certificates are distributed to the participants. Student Coordinators G.Aparnaa , S.Keerthana, R.Gokul Kumar,V.Rakshit Roshan, B.Santhosh ,T.Sujitha coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor."

8.



PIC: IEEE EVENT POSTER

The IEEE Power Electronics Society of St Joseph's College of Engineering hosted the Frog-Tastic, a fun technical event in virtual mode. The event was conducted on 30.01.2023. In this event, participants are put their knowledge to the test, the event is about power electronics basic MCQ questions. The quiz as graphical image of a frog which show the answer by jumping on a leaf if it is correct or the frog down and the game will be over. This makes the event more entertain. E-certificate were given to the winners and participants.

9.

*You Choose, We Do It*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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29  
Years of Excellence

ABEA  
NBA  
NIRF  
Cambridge English Qualifications

IEEE  
Department of Electrical and Electronics Engineering  
in association with  
**IEEE POWER ELECTRONICS SOCIETY**  
Presents

Date: 28-01-2023  
Timing: 140-300pm  
Mode: Offline

**HEAD'S UP?**

Scan Here  
FOR REGISTRATION

*E-Certificates will be provided to all the participants*

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**

Mrs. S. Jessie Priya M.Sc.  
Managing Director, St. Joseph's Group of Institutions

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Executive Director, St. Joseph's Group of Institutions

Dr. B. V. Vallinayagam M.Sc., M.A.  
Dean (Academics), St. Joseph's College of Engineering

Dr. Vaidi Seshagiri Rao M.A., M.B.A., Ph.D.  
Principal, St. Joseph's College of Engineering

Dr. A. Chandra Sekar M.Sc., M.A.  
Dean (Research), St. Joseph's College of Engineering

Dr. G. Sreekumar M.Sc., M.Tech., Ph.D.  
Dean (Academics), St. Joseph's College of Engineering

**Convener**  
Dr. T.V. Ramachandran M.Sc., M.A.  
Professor & Head - Lab Affairs

**SBC Advisor**  
Dr. Jayarama Pradeep M.A., M.A.  
Professor & Head - Staff Affairs

**Staff Coordinator**  
Mr. B. Sreekanth M.A., Ph.D.  
Assistant Professor

**Student Coordinators**  
POOJASREE K | POORNAVAKASH T | NIVAS M | KUMMARAS SHRIRAJ D | SENTHAMIZHSELVAN S  
VASANTHAKUMAR S | MICHAEL JESVIN F

**EMAIL**  
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**INSTAGRAM**  
@ieeeeps\_sjce

\*For Admissions: visit [www.sjcepehs.ac.in](http://www.sjcepehs.ac.in) / [www.sjcepehstechnology.ac.in](http://www.sjcepehstechnology.ac.in) or contact: - 91 99401 04882 / 91 99401 04882.

PIC: IEEE EVENT POSTER

The IEEE Power Electronics Society of St Joseph's College of Engineering hosted the Heads up, a TECHNICAL EVENT. The event was conducted on 28.01.2023. In this event, participants were form a team consist of two members, the game has two roles the "Finder" and "Informer". The Finder role is to find the answer. The Informer role is to give clue about the device or components. Each team where called forward to perform the roles, based on the time limit the winners were selected. E-certificate were given to the winners and participants.



10.

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**IEEE** St. Joseph's College of Engineering  
St. Joseph's Group of Institutions

மின் மற்றும் மின்னணு பொறியியல் துறை  
உடன் இணைந்து  
**IEEE SJCE SB மாணவர் மன்றம்**  
பெருமையுடன் வழங்கும்  
**தொகை**  
--- ஒரு கவிதை எழுதும் போட்டி ---

உங்கள் கவிதைகளை சமர்ப்பிக்க...  
  
<https://bit.ly/Totaikai>

தேதி : 28/01/2023  
to  
31/01/2023

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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Dean (Students Affairs), St. Joseph's College of Engineering  
Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - CSE

**SBC Advisor**  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - CSE

**Staff Coordinator**  
Dr. G. Sreekumar M.Sc., M.Tech., Ph.D.  
Dean (Student Academics), St. Joseph's College of Engineering  
Mr. R. Sreekanth M.E., (Ph.D.)  
Assistant Professor

**Student Coordinators**  
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 9940104881 / +91 9940104882.

PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a kavithai event "தொகை" related to Tamil kavithai competition on 28 to 31 January 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 25 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Aruthra, Aparnaa, Abinaya and the others were provided with participation certificates. The student coordinators for this event are Deepika U, Jayavarshini M J, Abinaya Priya R A, Shiva D, Sunil Kumar M.

11.



PIC: IEEE EVENT POSTER

Circuitrix was organized by IEEE SJCE SBC under IEEE Robotics and Automation Society for the college students. The event was conducted in Google form. It is an amazing quiz event conducted for students to make them know about electrical instruments on 25th January 2023. Over 15 students participated in it and are benefited. E-Certificates are distributed to the participants. Student Coordinators G.Aparnaa, S.Keerthana, R.Gokul Kumar, V.Rakshit Roshan, B.Santhosh, T.Sujitha coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor."

12.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
OMR, Chennai - 119

**ARIIA** **NBA** **MAAC** **nirf** **Cambridge**  
English Qualifications

**IEEE** **WIE**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
IEEE Women in Engineering Affinity Group  
presents

**THE POWER OF 'SHE'**  
PANEL DISCUSSION | TOPIC - BE YOUR BOSS, BUILD YOUR PATH

**Mr. Cecil Sunder**  
Director- Data & AI solutions and strategy

**Ms. Sri S**  
CEO Entrepreneur & Investor Chargeback

**Ms. Karen Oldhovan**  
Founder - Brand new Personality

**Ms. Jacquelyn Clayborn**  
CEO at ONC National APVC Board Member

**DATE- Januray 30th ,2023**  
**TIME- 11:30 AM (IST)**  
**REG LINK-<https://bit.ly/ThePowerofShe-reg>**

**Chief Patron**  
**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
**Mrs. S. Jessie Priya** M.Com.,  
Managing Director, St. Joseph's Group of Institutions  
**Dr. Vaidil Sathyaajithi Rao** M.A., M.B.A., Ph.D.,  
Principal, St. Joseph's College of Engineering  
**Mr. B. Shashi Sekar** M.A.,  
Executive Director, St. Joseph's Group of Institutions

**Dr. B.V. Vallinayagam** M.A., M.B.A., Ph.D.,  
Vice-Chancellor, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar** M.E., Ph.D.,  
Deputy Principal, St. Joseph's College of Engineering  
**Dr. C. Sreekumar** M.B.A., M.F.A., Ph.D.,  
Deputy Academic Officer, St. Joseph's College of Engineering

**Convener**  
**Dr. T.V. Narayanaswamy** M.A., Ph.D.,  
Professor & Head, IAS, Chennai

**Chief Advisor**  
**Dr. Jayarama Prasad** M.A., Ph.D.,  
Professor & Head, IAS, Chennai

**Staff Coordinator**  
**Mr. B. Sreekanth** M.A., M.B.A.,  
Assistant Professor  
**Dr. K. Veeramathi** M.A., Ph.D.,  
Assistant Professor

**Student Coordinators**  
**Jamuna U. Harini N.** **Madhumitha S. Madhumitha S.** **Madhumitha S.**

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PIC: IEEE EVENT POSTER

IEEE Women In Engineering Affinity Group of St Joseph's College of Engineering along with the IEEE SB of SJCE organised an international Panel Discussion - "The Power of 'She'" on the topic "BE YOUR BOSS,BUILD YOUR PATH". Our First panellist, Ms.Jacquelyn Clayborn Founder/CEO at ONC National, a gentle and resilient speaker shared her past experiences and how she handled it. Our Second Panellist, Ms.Karen Oldhoven, such a brilliant, lovely, and brave individual founder of Personal Branding Agency, shared her personal experiences as well as the importance of women in society. Our third panellist, Ms.S.Srii,CEO, Entrepreneur & Investor joined and shared the importance of women entrepreneurship with us. Our fourth panellist, Mr. Cecil Sunder,Director- Data & AI solutions and Strategy (US Manufacturing)talked about the power of women, the most lovely portion of the discussion.

The event was moderated by Ms.Jamuna U, Chairperson of IEEE WIE SJCE SBC. The entire event was coordinated by the IEEE WIE SJCE SB Office Bearers , Chairperson -Ms.Jamuna U, Vice ChairPerson -Ms.Harini N, Secretary -Ms.Madhu Malini MK , Joint Secretary -Ms.Adirai , Treasurer-Ms.Kaviya P, Committee Member-1 -Ms.Kanimozhi G and Committee Member-2-Ms.Madhumitha S, along with Mr. R. Sreekanth, IEEE SB Counselor. E-Certificates were provided to all the participants. The panellists are honoured with E-Memento

13.



PIC: IEEE EVENT POSTER

IEEE Women In Engineering AG under St. Joseph's College of Engineering Student Branch Chapter organised "PHOTOHOLIC- A platform for Photo-freaks" for School Diploma and College students from January 26th to January 30th of 2023 .A Platform for Photo-freaks to get captured the moment with other people. The event was coordinated by Ms.Jamuna U, Ms Madhumalini MK, Ms Kaviya P, Ms.Kanimozhi G, Ms.Harini N. Around 50 students participated in this contest. Merit Certificates were provided to the Winners and E- Certificates were provided to all the participants .

14.

St. Joseph's College of Engineering  
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St. Joseph's Group of Institutions  
OMR, Chennai - 119

ARHA  
NBA  
A++ NAAC  
nirf  
Cambridge  
IEEE

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
IEEE Women in Engineering Affinity Group  
presents  
**JAN-REL**  
An online quiz contest

MODE ONLINE

2023  
January  
26th to 30th

**Theme: A Game with January**  
Registration link: <https://bit.ly/Jan-Rel>  
Merit E-certificates will be provided to the winners.  
Participation certificates will be provided to all the participants

**Chief Patron**  
Dr. B. Babu Manohar Iyer M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
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Principal, St. Joseph's College of Engineering  
Dr. A. Chandu Sekar M.A., M.B.A.  
Dean/Research, St. Joseph's College of Engineering  
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Dean/Academics, St. Joseph's College of Engineering

**Convenor**  
Dr. T.V. Narmadha M.A., Ph.D.  
Professor & Head - Lab Affairs

**SBC Advisor**  
Dr. Jayarama Pradeep M.A., Ph.D.  
Professor & Head - Staff Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.A., Ph.D.  
Assistant Professor  
Dr. M. Venmathi M.A., Ph.D.  
Associate Professor

**Student Coordinators**  
Jamuna U | Harini N | MadhuMalini MK | Adirai D | Kaviya P | Kanimozhi G | Madhumitha S

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephscollege.ac.in](http://www.stjosephscollege.ac.in) or contact: :91 99401 01881 :91 99401 01882

**PIC: IEEE EVENT POSTER**

IEEE Women In Engineering AG under St. Joseph's College of Engineering Student Branch Chapter organised "JAN-REL- An Online quiz contest" for School, Diploma and College students from January 26th to January 30th of 2023. This event is in the form of a quiz related to the month of January. The event was coordinated by Ms.Jamuna U, Ms Madhumalini MK, Ms Kaviya P, Ms.Adrai, Ms.Madhumitha. Around 45 students participated in this contest. Merit Certificates were provided to the Winners and E- Certificates were provided to all the participants .



15.



PIC: IEEE EVENT POSTER

Sciencezoid was organized by IEEE SJCE SBC under IEEE Robotics and Automation Society for the college students. The event was conducted in Google meet It is a amazing quiz event Conducted for students to make them to know about science and technology, conducted on on 27th february 2023. Over 20 students participated in it and are benefited. E-Certificates are distributed to the participants. Student Coordinators G.Aparnaa, R.Gokul Kumar,V.Rakshit Roshan,B.Santhosh ,N.Rupesh,M.N.Pragadeesh coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor. Student coordinators: G.Aparna ,S.Keerthana ,R.Gokul Kumar ,V.Rakshit Roshan ,B.Santhosh ,N.Rupesh and M.N.Pragadeesh

16.



PIC: IEEE EVENT POSTER

IEEE Spectrum is the world’s largest professional organization devoted to engineering and the applied sciences. It contains peer-reviewed feature articles pertaining to technology and science trends affecting business and society. This spectrum was conducted to enlighten the young minds and some skillful knowledge out of it. The speaker Ms. Aiswarya T S spoke on the “Wearable Ultrasonic Patch that Images the Heart in Real time”. The speaker enlightened us with the idea that “Wearable ultrasonic patch that will monitor the heart continuously and produce the image, which can be used for diagnosis process”. The participants had an amazing experience in the meet and enjoyed the entire session.

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
 in association with  
**IEEE STUDENT BRANCH CHAPTER**  
 presents

**COVER TO COVER**  
 (IEEE Spectrum Reading)




 **6:00 PM- 7:00 PM**  
 **16th February 2023**


 [meet.google.com/ykh-jxcm-atd](https://meet.google.com/ykh-jxcm-atd)

**MADHUMITHA S**  
 2nd Year EEE  
**Topic : Wireless Charging - How it Works**

**Chief Patron**  
**Dr. B. Babu Manoharan** M.A., M.B.A., Ph.D.  
 Chairman, St. Joseph's Group of Institutions

**Patrons**

**Mrs. S. Jessie Priya** M.Com.  
 Managing Director, St. Joseph's Group of Institutions

**Mr. B. Shashi Sekar** M.Sc.  
 Executive Director, St. Joseph's Group of Institutions

**Dr. Vaddi Seshagiri Rao** M.T., M.B.A., Ph.D.  
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**Dr. V. Vallimayagam** M.Phil., Ph.D.  
 Dean Students Affairs, St. Joseph's College of Engineering

**Dr. A.Chandra Sekar** M.E., Ph.D.  
 Dean Research, St. Joseph's College of Engineering

**Dr. G.Sreekumar** M.Sc., M.Tech., Ph.D.  
 Dean Academics, St. Joseph's College of Engineering

**Convenor**  
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 Professor & Head, Lab Officers

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**Dr. Jayarama Pradeep** M.E., Ph.D.  
 Professor & Head, Staff Officers

**Staff Coordinator**  
**Mr. R. Sreekanth** M.E., Ph.D.  
 Assistant Professor

**Student Coordinators**  
 Manigandan V | Nithin Joel J | Arisudan T H

\*For Admissions, visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: 91 99401 04883 / 91 99401 04882

**PIC: IEEE EVENT POSTER**

IEEE Spectrum is the world's largest professional organization devoted to engineering and the applied sciences. It contains peer-reviewed feature articles pertaining to technology and science trends affecting business and society. This spectrum was conducted to enlighten the young minds and some skillful knowledge out of it. The speaker Ms. Madhumitha S spoke on the "Wireless Charging—How it Works". The speaker enlightened us with the idea that "Wireless charging is the most emerging technology in the field of Engineering. Making the technology more eco-friendly with wireless charging, thus making humanity to move forward". The participants had an amazing experience in the meet and enjoyed the entire session.

18.

The poster is for an IEEE event titled 'TECHYIZZ' presented by the Department of Electrical and Electronics Engineering in association with the Industry Applications Society. The event is scheduled for February 13, 2023. It is open to all IEEE members and e-certificates will be provided to all participants. The registration link is <https://forms.gle/S8CeBMWjJUFg8f5o6>. A QR code is provided for registration. The poster lists several key personnel: Chief Patron (Dr. B. Babu Manoharan), Patrons (Mrs. S. Jessie Priya, Dr. Vaideli Seshagiri Rishi, Mr. B. Shashi Sekar), Convenor (Dr. B. V. Vallinayagam), SBC Advisor (Dr. Jayarama Pradeep), and Staff Coordinator (Mr. R. Sreekanth). It also lists Student Coordinators: KARTHICKAN S | PRASANNA GNANAMBIGA S | KAVIPRIYA D | VIJAYALAKSHMI | KAILASH | SANJAY K | SHYAM SUNDHAR M.

PIC: IEEE EVENT POSTER

The conference team office bearers for 2023 held a meeting that was conducted by the IEEE Student Branch Chapter of St. Joseph's College of Engineering. The date was February, 2023. Seven members of the student chapter from St. Joseph's College of Engineering attended the meet as office holders for the conference team. They talked about this year's strategy and the upcoming conference.

19.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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**IEEE** In Pursuit of Excellence  
IEEE SJCE SB Maanavar Mandram

மின் மற்றும் மின்னணு பொறியியல் துறை  
உடன் இணைந்து  
IEEE SJCE SB மாணவர் மன்றம்  
பெருமையுடன் வழங்கும்

**மாணவர் கருத்தரங்கம் - 1**  
தமிழ் இணையமேடை சொற்பொழிவு

பதிவு செய்ய  
QR Code

தேதி : 04.02.2023  
நேரம் : 2.00pm

Ms.தாரணி.வே  
IEEE SJCE SB Chairperson  
தலைப்பு : என் IEEE பயணம்

https://bit.ly/மாணவர்  
கருத்தரங்கம்

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

**Chief Patron**  
Dr. B. Babu Manoharan M.A, M.B.A, Ph.D.  
Chairman, St. Joseph's Group of Institutions

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Dr. Vaddi Seshagiri Rao M.E, M.B.A, Ph.D.  
Principal, St. Joseph's College of Engineering

**Dr. V. Vallinayagam M.Phil, Ph.D.**  
Dean (Students Affairs), St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar M.E, Ph.D.**  
Dean (Research), St. Joseph's College of Engineering  
**Dr. C. Sreekumar M.A, M.Tech, Ph.D.**  
Dean (Academics), St. Joseph's College of Engineering

**Convener**  
Dr. T.V. Narmadha M.E, Ph.D.  
Professor & Head - Lab Affairs  
**SBC Advisor**  
Dr. Jayarama Pradeep M.E, Ph.D.  
Professor & Head - Staff Affairs  
**Staff Coordinator**  
Mr. R. Sreekanth M.E, Ph.D.  
Assistant Professor

**Student Coordinators**  
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

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PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a Tamil Symposium 'செம்மொழி திருவிழா' on 22th February 2023 between 10:00 am to 3:00 pm about the. Overall, 96 people registered through the registration form and 70 of them participated in the events and best three were given winners' certificates and the others were provided with participation certificates. In the Tamil Symposium, we hosted 12 events, 10 of which were held online and 2 of which were held offline, including our final day event. Five of those ten offline events were webinars. The speeches were delivered by five separate speakers and the next five events were non-technical events.

20.

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மின் மற்றும் மின்னணு பொறியியல் துறை  
உடன் இணைந்து  
IEEE SJCE SB மாணவர் மன்றம்  
பெருமையுடன் வழங்கும்

**புதுக்கவிதை**  
-- ஒரு கவிதை, எழுதும் போட --

உங்கள் கவிதைகளை  
காட்டுங்கள்

QR Code

தேதி : 04.02.2023  
நேரம் : 6.00 pm

தலைப்பு : அவள்

https://bit.ly/புதுக்கவிதை

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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Mr. R. Sreekanth M.E, Ph.D.  
Assistant Professor

**Student Coordinators**  
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

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The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a Kavithai event on behalf of Semmozhi Thiruvizha (Tamil Symposium) "புதுக்கவிதை" related to Tamil kavithai competition on 4th February 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 25 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Sowmiya, Jayanthika, Akshaya and the others were provided with participation certificates. The student coordinators for this event are Deepika U, Jayavarshini M J, Abinaya Priya R A, Shiva D, Sunil Kumar M.



PIC: IEEE EVENT POSTER

21.

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ARITA  
NIRF  
Cambridge  
IEEE

மின் மற்றும் மின்னணு பொறியியல் துறை  
உடன் இணைந்து  
IEEE SJCE SB மாணவர் மன்றம்  
பெருமையுடன் வழங்கும்

**மாணவர் கருத்தரங்கம் - 1**  
தமிழ் இணையமேடை சொற்பொழிவு

பதிவு செய்ய  
QR Code

தேதி : 04.02.2023  
நேரம் : 2.00pm

Ms. தாரணி. வெ  
IEEE SJCE SB Chairperson  
தலைப்பு : என் IEEE பயணம்

[https://bit.ly/மாணவர்\\_கருத்தரங்கம்](https://bit.ly/மாணவர்_கருத்தரங்கம்)

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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**SBC Advisor**  
Dr. A. Chandras Sekar M.E., Ph.D.  
Dean (Research), St. Joseph's College of Engineering  
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PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a webinar event on behalf of Semmozhi Thiruvizha (Tamil Symposium) "மாணவர் கருத்தரங்கம்-1" related to Tamil webinar session on 4th February 2023. The session was conducted in online mode. The rules and regulations were explained before. Overall, 35-40 people attended the session. This session was conducted by Ms.V.Dharani on the topic of her IEEE Journey. The student coordinators for this event are Deepika U ,Jayavarshini M J , Abinaya Priya R A , Shiva D Sunil Kumar M.



22.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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OMR, Chennai - 119

**IEEE** 2023

மின் மற்றும் மின்னணு பொறியியல் துறை  
உடன் இணைந்து  
IEEE SJCE SB மாணவர் மன்றம்  
பெருமையுடன் வழங்கும்  
**குறள்வெண்பா**  
-- திருக்குறள் ஒப்பித்தல் போட்டி --

உங்கள்  
பதிவுகளை  
சுமந்துபிடுக...

<https://bit.ly/குறள்வெண்பா>

தேதி : 05.02.2023  
நேரம் : 6.00pm  
தலைப்பு : திருக்குறள்

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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Professor & Head, IAS, IITM

**SBC Advisor**  
Dr. Jayarama Pradeep M.L., Ph.D.  
Professor & Head, IAS, IITM

**Staff Coordinator**  
Mr. R. Sreekanth M.L., Ph.D.  
Assistant Professor

**Student Coordinators**  
Mani Sha N | Jayasruthi R V | AkshayaKrishnan | Amirtha Varshini M | Godson S V Noble

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PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a Thirukkural event on behalf of Semmozhi Thiruvizha (Tamil Symposium) "குறள்வெண்பா" related to Thirukkural competition on 5th February 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 25 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Harini, Aishwarya, Indhumathi and the others were provided with participation certificates. The student coordinators for this event are Mani Sha N, Jayasruthi R V, Akshaya Krishnan, Amirtha Varshini M, Godson S V Noble.

23.

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மின் மற்றும் மின்னணு பொறியியல் துறை உடன் இணைந்து  
IEEE SJCE SB மாணவர் மன்றம் பெருமையுடன் வழங்கும்

**மாணவர் கருத்தரங்கம் - 2**  
தமிழ் இணையமேடை சொற்பொழிவு

பதிவு செய்ய  
QR Code

தேதி : 05.02.2023  
நேரம் : 5.00pm

செல்வன்.தி. அரிகதன்  
IEEE SIGHT SJCE Chairperson

[https://bit.ly/மாணவர்\\_கருத்தரங்கம்](https://bit.ly/மாணவர்_கருத்தரங்கம்)

தலைப்பு : மினாக்கெயின் தொழில்நுட்பம் மற்றும் பிட்காயின் குறியீட்டு நானயம்

-- பங்கேற்பாளர்கள் அனைவருக்கும் மின் சான்றிதழ்கள் வழங்கப்படும் --

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Dean (Students Affairs), St. Joseph's College of Engineering

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Professor & Head - Lab Affairs

**SBC Advisor**  
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Professor & Head - Staff Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.A., Ph.D.  
Assistant Professor

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**PIC: IEEE EVENT POSTER**

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a webinar event on behalf of Semmozhi Thiruvizha (Tamil Symposium) "மாணவர் கருத்தரங்கம்-2" related to Tamil webinar session on 5th February 2023. The session was conducted in online mode. The rules and regulations were explained before. Overall, 35-40 people attended the session. This session was conducted by Mr. T. Arisudan on the topic of her Block chain and Bitcoin Technology. The event was held on 05th February 2023 between 5:00 pm to 6:00pm about the. The student coordinators for this event are Mani Sha N, Akshaya Krishnan, Amirtha Varshini, Jaya Shruthi, Godson S V Noble.

24.

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IEEE SJCE SB மாணவர் மன்றம் பெருமையுடன் வழங்கும்

**இசைக்கலை**  
-- ஒரு பாட்டுப் போட்டி --

உங்கள் பதிவுகளை சமர்ப்பிக்க...  
QR Code

<https://bit.ly/இசைக்கலை>

தேதி : 06.02.2023  
நேரம் : 6.00pm

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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Professor & Head - Lab Affairs

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Professor & Head - Staff Affairs

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Mr. R. Sreekanth M.A., Ph.D.  
Assistant Professor

**Student Coordinators**  
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

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The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a Singing event on behalf of Semmozhi Thiruvizha (Tamil Symposium) "இசைக்கலை" related to Singing competition on 6th February 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 25 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Achaya, Srinithi, Vinodhini and the others were provided with participation certificates. The student coordinators for this event are Deepika U, Jayavarshini M J, Abinaya Priya R A, Shiva D Sunil Kumar M.

PIC: IEEE EVENT POSTER

25.

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**IEEE SJCE SB மாணவர் மன்றம்**  
பெருமையுடன் வழங்கும்  
**மாணவர் கருத்தரங்கம் - 3**  
தமிழ் இணையமேடை சொற்பொழிவு

பதிவு செய்ய  
பதிவு செய்ய  
QR Code

தேதி : 06.02.2023  
நேரம் : 6.30 pm

செல்வன் .ஜெ.யவனேஷ்  
IEEE SJCE Conference Team Lead  
தலைப்பு : உட்பொதிக்கப்பட்ட அமைப்பின் உலகில்  
-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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Dean (Students Affairs), St. Joseph's College of Engineering  
Dr. T.V. Narmadha M.L., Ph.D.  
Professor & Head, Lab Affairs

**SBC Advisor**  
Dr. Jayarama Pradeep M.L., Ph.D.  
Professor & Head, IITR-80001

**Staff Coordinator**  
Dr. C. Sreekumar M.Sc., M.Tech., Ph.D.  
Dean (Academics), St. Joseph's College of Engineering  
Mr. R. Sreekanth M.L., Ph.D.  
Assistant Professor

**Student Coordinators**  
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

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PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a webinar event on behalf of Semmozhi Thiruvizha (Tamil Symposium) "மாணவர் கருத்தரங்கம்-3" related to Tamil webinar session on 6th February 2023. The session was conducted in online mode. The rules and regulations were explained before. Overall, 35-40 people attended the session. This session was conducted by Mr. J. Yavanesh on the topic of Embedded Systems. The event was held on 05th February 2023 between 5:00 pm to 6:00pm about the . The student coordinators for this event are Mani Sha N , Akshaya Krishnan , Amirtha Varshini , Jaya Shruthi , Godson S V Noble.

26.

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உடன் இணைந்து  
**IEEE SJCE SB மாணவர் மன்றம்**  
பெருமையுடன் வழங்கும்

**கவியும் கற்பனையும்**  
---ஒரு இணையத்தில் பரவும் நகைச்சுவைகளை உருவாக்கும் போட்டி---

பதிவு செய்ய  
QR Code  
[https://bit.ly/கவியும்\\_கற்பனையும்](https://bit.ly/கவியும்_கற்பனையும்)

**தேதி: 07.02.2023**  
**நேரம்: 5.00pm**

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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<b>Dr. V. Narmadha</b> M.L., Ph.D. Professor & Head, IAS, IITM	<b>Dr. C. Sreekumar</b> M.Sc., M.Tech., Ph.D. Dean (Academic), St. Joseph's College of Engineering

**Convenor** **SBC Advisor** **Staff Coordinator**

<b>Dr. T.V. Narmadha</b> M.L., Ph.D. Professor & Head, IAS, IITM	<b>Dr. Jayarama Pradeep</b> M.L., Ph.D. Professor & Head, IAS, IITM	<b>Mr. R. Sreekanth</b> M.L., Ph.D. Assistant Professor
---	--	--

**Student Coordinators**  
Mani Sha N | Jayasruthi R V | AkshayaKrishnen | Amirtha Varshini M | Godson S V Noble

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**PIC: IEEE EVENT POSTER**

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a meme contest on behalf of Semmozhi Thiruvizha (Tamil Symposium) "கவியும் கற்பனையும்" related to meme competition on 7th February 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 25 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Astina, Akshara, Harini and the others were provided with participation certificates. The student coordinators for this event are Mani Sha N, Jayasruthi R V, Akshaya Krishnan, Amirtha Varshini M, Godson S V Noble.



27.



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**மாணவர் கருத்தரங்கம் - 4**  
தமிழ் இணையமேடை சொற்பொழிவு

பதிவு செய்ய  
QR Code

தேதி : 07.02.2023  
நேரம் : 6.00 pm

செல்வி. இரா.அபிநயப்பிரியா  
IEEE Tamil Mandram SJCE Secretary

தலைப்பு : புறம் சுறும் அறம்

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a webinar event on behalf of Semmozhi Thiruvizha (Tamil Symposium) “மாணவர் கருத்தரங்கம்-4” related to Tamil webinar session on 4th February 2023. The session was conducted in online mode. The rules and regulations were explained before. Overall, 35-40 people attended the session. This session was conducted by Ms.R. Abinaya Priya. The event was held on 08th February 2023 between 6:00 pm to 7:00pm about the. The student coordinators for this event are Mani Sha N, Akshaya Krishnan, Amirtha Varshini, Jaya Shruthi, Godson S V Noble.

28.



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**சுவரிதழ்**  
ஒரு சுவரொட்டி வடிவமைப்பு போட்டி

பதிவு செய்ய  
QR Code

தேதி : 08.02.2023  
நேரம் : 5.00pm

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a Poster Design event on behalf of Semmozhi Thiruvizha (Tamil Symposium) “சுவரிதழ்” related to Poster Designing competition on 8th February 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 25 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Elamparithi, Hari Vignesh, Gowtham and the others were provided with participation certificates. The student coordinators for this event are Deepika U, Jayavarshini M J, Abinaya Priya R A, Shiva D, Sunil Kumar M.

PIC: IEEE EVENT POSTER



29.

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பெருமையுடன் வழங்கும்

**மாணவர் கருத்தரங்கம் - 5**

தமிழ் இணையமேடை சொற்பொழிவு பதிவு செய்ய

 தேதி : 08.02.2023  
நேரம் : 6.00 to 7.00 pm

 செல்வி. உ. ஜமுனா  
IEEE WIE SJCE Chairperson  
தலைப்பு : யாதும் ஊரே

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Dean Students Affairs, St. Joseph's College of Engineering  
Dr. A. Chandra Sekar M.E., Ph.D.  
Dean Research, St. Joseph's College of Engineering  
Dr. C. Sreekumar M.Sc., M.Tech., Ph.D.  
Dean (Academic), St. Joseph's College of Engineering

**Convenor** Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - Lab Affairs  
**SBC Advisor** Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Staff Officers  
**Staff Coordinator** Mr. R. Sreekanth M.E., (Ph.D.)  
Assistant Professor

**Student Coordinators**  
Mani Sha N | Jayasruthi R V | AkshayaKrishnan | Amirtha Varshini M | Godson S V Noble

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PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a webinar event on behalf of Semmozhi Thiruvizha (Tamil Symposium) "மாணவர் கருத்தரங்கம்-5" related to Tamil webinar session on 4th February 2023. The session was conducted in online mode. The rules and regulations were explained before. Overall, 35-40 people attended the session. This session was conducted by Ms. U. Jamuna. The event was held on 08th February 2023 between 6:00 pm to 7:00 pm about the. The student coordinators for this event are Mani Sha N, Akshaya Krishnan, Amirtha Varshini, Jaya Shruthi, Godson S V Noble.

30.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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OMR, Chennai - 119

**IEEE MADRAS SECTION**

மீண்டும் மின்னணு பொறியியல் துறை  
IEEE SJCE SB மாணவர் மன்றம்  
பெருமையுடன் வழங்கும்  
**செம்மொழி திருவிழா**  
**தொடர்புச் சங்கிலி**  
--ஒரு மாணவர் ஒருத்தரங்கம்--  
--ஒரு சொற்களை இணைக்கும் விளையாட்டு--

பதிவு செய்ய  
https://bit.ly/  
தொடர்பினைப்பு

தேதி: 22/02/2023 |பிற்பகல் - 1:00-1:45 pm

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Executive Director, St. Joseph's Group of Institutions

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Dean (Students Affairs), St. Joseph's College of Engineering  
Dr. A. Chandra Sekar M.E., Ph.D.  
Dean (Operations), St. Joseph's College of Engineering  
Dr. G. Sreekumar M.Sc., M.Tech., Ph.D.  
Dean (Infrastructure), St. Joseph's College of Engineering

**Convener**  
Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - Lab Affairs

**SBC Advisor**  
Dr. Jayarama Pradeep M.L., Ph.D.  
Professor & Head - Staff Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.L., Ph.D.  
Assistant Professor

**Student Coordinators**  
IEEE தன்னார்வலர்கள்

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**PIC: IEEE EVENT POSTER**

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a riddle event 'தொடர்பினைப்பு' related to Tamil words game on 22th -February 2023 between 1:00 pm to 1:45 pm. Overall, 50 people registered through the registration form and 40 of them participated in the event and best three were given winners' certificates and the others were provided with participation certificates. The first place goes to Chureendar and Rakshit Roshan , second place goes to Sivakumar and Kathiravan , third place goes to Kaviya and Keerthana . The student coordinators for this event are Deepika U ,Jayavarshini M J , Abinaya Priya R A , Shiva D ,Sunil Kumar M.

31.



**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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**IEEE MADRAS SECTION**

மற்றும்  
மின் மற்றும் மின்னணு பொறியியல் துறை  
**IEEE S.JCE SB மாணவர் மன்றம்**  
பெருமையுடன் வழங்கும்  
**செம்மொழி திருவிழா**  
---ஒரு தமிழ் கருத்தரங்கம்---  
**பைந்தமிழ் பட்டிமன்றம்**  
---ஒரு தமிழ் பட்டிமன்றம்---

பதிவு செய்ய  
QR Code  
<https://bit.ly/செம்மொழித்-திருவிழா>

தேதி: 22/02/2023  
நேரம்: காலை 10:00 AM -  
மாலை 3:00 PM

பதிவு செய்வதற்கான கடைசி தேதி: 19.02.2022

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Managing Director, St. Joseph's Group of Institutions  
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Professor & Head - Staff Affairs

**Staff Coordinator**  
Mr. R. Sreekanth M.E., Ph.D.  
Associate Professor

**Student Coordinators**  
IEEE தன்னார்வர்கள்

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PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted Pattimandram event on behalf of Semmozhi Thiruvizha (Tamil Symposium) "பைந்தமிழ் பட்டிமன்றம்" related to Tamil Pattimandram competition on 22nd February 2023. The event was conducted in Offline mode on the topic of The enjoyment of college life for Boys vs Girls. The best two were given winners certificates. The winners of the event are Abinayaa sri, Varshini and the others were provided with participation certificates. This event was conducted by IEEE Volunteers.

32.



**IEEE Madras Section** **IEEE young professionals MADRAS SECTION**

**IEEE MADRAS YOUNG PROFESSIONALS**

**SPECTRAFEST'23**  
TIME TO EXPLORE IEEE SPECTRUM MAGAZINE

**DATE : 19.02.2023**  
**TIME : 09.30 AM TO 04.00PM(IST)**  
**MODE : Online**  
**HOST : IEEE**

**REGISTER @ <https://bit.ly/Spectrafest23>**

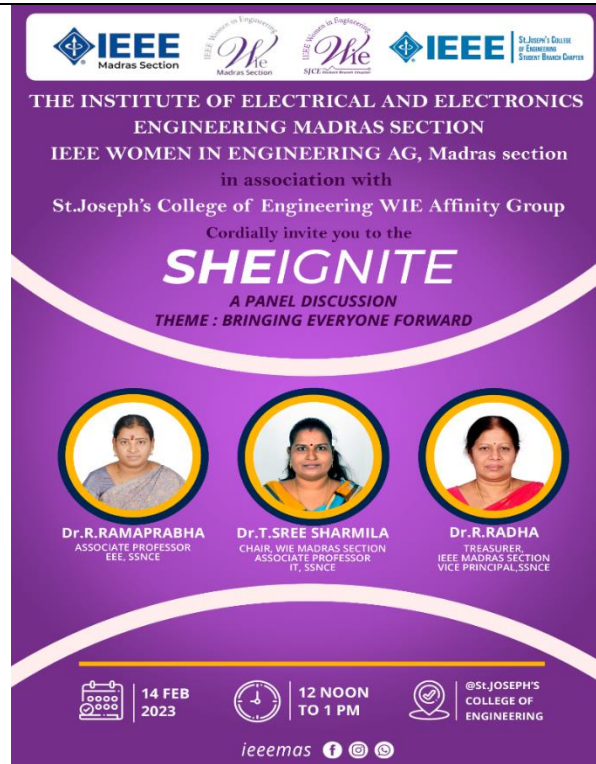
**SCAN HERE**

**IEEE MASYP**

IEEE Young Professionals hosted "SPECTRAFEST'23- A Magazine presentation" for School Diploma and College students on 19th February 2023. There were two Tracks in the Event, AUTHENTICA and SPIRA. In the track of AUTHENTICA the team should pick an article from the IEEE SPECTRUM Magazines and should present it before the juries, and in the track of SPIRA the article's title were given on spot from IEEE SPECTRUM Magazines and specific time was provided for preparation and then the team presented it. As the event's Chief Guest, Mr. M. Arun, Chairman of IEEE Young Professionals, joined us. On the day of the event, there were about five juries present to judge the presentations. Mr. M. Abdul Halik, Secretary of IEEE Young Professionals, Dr. Prem Kumar, Dr. P. Velmurugan, and Dr. M. Ramesh Babu were the juries in session that day. Around 110 students participated in this contest. Merit Certificate was provided to the Winners and also E- Certificates was provided with participants. The event was Hosted and organized by St. Joseph's College of Engineering IEEE Student Branch Chapter

PIC: IEEE EVENT POSTER

33.



PIC: IEEE EVENT POSTER

IEEE MAS Women In Engineering Affinity Group in association with St Joseph's IEEE WiE Affinity group organized a Panel Discussion - "SHEignite" on the topic "Bringing Everyone Forward" on behalf of International day of Women and girls in science on 14th February, 2023 from 2pm to 3pm(IST). The event focuses to inspire and share ideas with people in all areas and sectors, especially the women's community, to advance and meet the challenges of their different workplace environments. The event was fulfilled with 3 renowned Panellists. Dr. S. Radha, a Senior professor and Vice principal at SSN College of Engineering, served as our first panellist and shared her opinions on how women should balance their personal and professional lives during the discussion. She also emphasised the value of IEEE to students with engineering backgrounds. Dr. Ramaprabha, the second panellist, is an associate professor in the department of Electrical and Electronic Engineering at SSNCE. She shared her thoughts on how newcomers might tackle the recession in an intelligent way. Dr. Sree Sharmila, the third panellist, presented a lot of information on recent developments and little-known but engaging IEEE platforms. She is the chair of the IEEE WIE Madras section and an associate professor of information technology at SSNCE.



34.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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OMR, Chennai - 119

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**One Day IoT Workshop with Hands on Training**

21 Venue : IoT LABORATORY

11 AM TO 1 PM

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. B. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Convenors**  
Dr. Jayarama Pradeep M.A., M.Phil., Ph.D. Professor & Head - Staff Affairs  
Mr. Siva Harish M. Head  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs  
Dr. A. Chandra Sekar M.A., Ph.D. Dean Research, St. Joseph's College of Engineering

**Staff Coordinator**  
Mr. M. Umash Prabhu M.Tech. Assistant Professor / EEE  
Mr. Sanjay Sampathkumar Head

**Student Coordinators**  
Mr. Sanjay Sampathkumar

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PIC: IEEE EVENT POSTER

Student Workshop on “One Day IoT workshop With Hands on Training” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering on 21th of february. The objective of the workshop was to provide a basic introduction to using of arduino for IOT projects. In the first one hour of the workshop, the students were provided with basic knowledge on arduino about its hardware, IDE and software. Some example programs were taught and in later session the students were given with hands on training on the example projects and they gained a practical knowledge in working with arduino board to do some simple projects.

35.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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OMR, Chennai - 119

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
in association with

St. Joseph's ISTE Student Chapter Organizes

**2 Days Student Workshop on DESIGN & DEVELOPMENT OF POWER SUPPLY**

INTRODUCTION TO ELECTRICAL DESIGNER SOFTWARE

**TOPICS COVERED**

1. DESIGN OF POWER SUPPLY
2. BASICS OF PCB DESIGN
3. INTRODUCTION TO ELECTRICAL DESIGNER SOFTWARE
4. BASICS OF FABRICATION

FOR II YEAR STUDENTS  
FEBRUARY | 16, 17 | 2023  
TIME : 8.00 AM TO 3.00 PM

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. B. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Convenors**  
Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering  
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs  
Dr. A. Chandra Sekar M.A., Ph.D. Dean Research, St. Joseph's College of Engineering  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs

**Staff Coordinators**  
Dr. M. Venmathi M.E., Ph.D. Associate Professor / EEE  
Mr. R. Elanthirayan M.E., (Ph.D.) Assistant Professor / EEE  
Ms. S.P. Vedavalli M.E., (Ph.D.) Assistant Professor / EEE

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PIC: STUDENT WORKSHOP POSTER.

Student Workshop on “Design & Development of Power Supply” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering. In the first session of the workshop, the students were provided with basic knowledge on power supply circuit diagram. The next session started with the demonstration on power supply design and development. Final session of first day was ended up with hands on training for hardware development of power supply. The first session of second day was started with introduction about the various types of Electrical designer software tools and explained about tinkercad tools for designing circuits. Students designed and developed the power supply board at the end of the workshop. The two days sessions are handled by Dr.M.Venmathi, Mr.R.Elanthirayan & Ms.S.P.Vedavalli Feedback was collected from the participants about the program and it was observed that they have found the program very useful and informative.



36.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organises  
**Guest Lecture on**  
**AI and the Way Forward**

RESOURCE PERSON  
**ARUN S VENKATARAMAN**  
Research Consulting | Innovation Management | Speaker & Trainer  
Founder and Global Head, Invenk solutions, chennai.  
Alumni 2009

11/02/2023  
11.00 A.M to 12.00 P.M.

For II year EEE students

**Chief Patron**  
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Chairman, St. Joseph's Group of Institutions

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Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Conveners**  
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Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering  
Dr. C. Sree Kumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

**Staff Coordinators**  
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Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs  
Dr. V. Chandrasekhar M.E., M.B.A., Ph.D. Associate Professor / IEE  
Dr. V. Krishnakumar M.Tech., Ph.D. Associate Professor / IEE

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Guest Lecture on “AI and the Way Forward” was conducted by the Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering. The guest lecture aims to provide how AI applications are ruling the world by Mr. Arun S Venkataraman Research Consultant/ Innovation Management Founder and Global Head, Invenk Solutions, Chennai on 11-02-2023.

37.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
**ELECTR/CAL CLUB**  
Organizes  
**BRAINSTORM**

4 FEB  
TIME: 1.40 to 3 PM  
Merit Certificates will be provided to the winners  
Exclusively for 3<sup>rd</sup> years

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Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering  
Dr. C. Sree Kumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

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Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs  
Mrs. R.G. NIRMALA M.A., M.A. Assistant Professor  
Mrs. Sivakumar M.E. Assistant Professor

**Student Coordinators**  
Abhisitha R | Abhinaya V | Abhinaya B | Bharatheshini S | Dhruvini V | Jaimona U | Linda Joyce R P | Nivasa M | Nandi Vandhan Reddy K | Ramya K | Sagaya Antony Ishwarya S | Shankar Aashash S | Sharan M

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St. Joseph's College of Engineering, (Electrical & Electronics Engineering) ELECTRICAL CLUB organized a technical event “BRAINSTORM” on 04-02-2023. This exclusive event started at 1.40 PM with all the members of our club. The event was started with “Tamil Thai Vazhthu”. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event.

WINNERS LIST:

STUDENTS NAME	YEAR	POSITION
Kaviya , Kavipriya, Keerthana	III	I
Mohana Santosh , Guhan	III	II
Navina , Anitta, Darsini	III	III

PIC:CLUB EVENT POSTER

38.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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St. Joseph's Group of Institutions  
OMR, Chennai - 119

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

St. Joseph's ISTE Student Chapter  
Organises

**SPRING TIME**  
AN AMUSING PERSPECTIVE

For 3<sup>rd</sup> Years

1:40PM to 3:00PM **ON FEBRUARY 10<sup>th</sup>**

Certificates Will Be Provided for Winners

Chief Patron  
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Chairman, St. Joseph's Group of Institutions

Patrons  
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Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

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Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering  
Dr. G. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

Dr. Jayaram Pradeep M.E., Ph.D. Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab In-Charge

CONVENORS  
Dr. T.D. Sudhakar M.E., Ph.D. Professor / EEE  
Mr. R. Elanthirayan M.Tech., (Ph.D.) Assistant Professor / EEE

Coordinator  
Mr. R. Elanthirayan M.Tech., (Ph.D.) Assistant Professor / EEE

Student Coordinators  
AMIRTHA VARSHINI M MUKUNTHASRI R ALFRED EINSTEIN G MALAVIKA N MADHAVAN K  
SUNIL KUMAR M BHARATH RAJ ARUTHURA S

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PIC:ISTE EVENT POSTER.

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) "St. JOSEPH'S ISTE STUDENT CHAPTER" organized a technical event "SPRING TIME" on 07-02-2023. This exclusive event started at 1.40 PM with all the members of our club. The event was started with "Tamil Thai Vazhthu". Abiding the famous quote "Talent hits a target no one else can hit; Genius hits a target no one else can see" the event started exploring the hidden talent of our students through this event.

WINNERS LIST:

STUDENTS NAME	YEAR	POSITION
SIDHU & SHANKAR AHASH	III	I
SIVAMALAVAN & SHAKTHIVELAN	III	II
KEERTHANA & NAVINA	III	III

39.

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) SOCIAL AWARENESS CLUB organized a technical event “EXPELLIARMUS” on 13/02/2023. This exclusive event started at 1:40PM with all the members of our club. The event was started with “Tamil Thai Vazhthu” and the event started exploring the hidden talent of our students.

WINNERS LIST:

STUDENT NAME	YEAR	POSITION
T.ANADHA KUMAR T.HARI KRISHNA	II-A	I
PRAGADEESH.M.N PON NAVEEN ANTO.I	II-B	II
PRAKASH.M KAILASH.I	II-B	III

40.

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) CHOPPERS CLUB organized a technical event “ LIGHT FAIR ” on 8thFEBRUARY. This exclusive event started at 1.40 P.M with all the members of our club. The event was started with “Tamil Thai Vazhthu”. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see the event started exploring the hidden talent of our students through this event.

WINNERS LIST:

STUDENTS NAME	YEAR	POSITION
KATHIRAVAN - KARTHIKEYAN	III	I
ALWYN- CHARLTON	III	II
CHURRENDAR - SANJEEV	III	III

PIC: CLUB EVENT POSTER.



41.



**PIC: CLUB EVENT POSTER.**

St. Joseph's College of Engineering (Electrical & Electronics Engineering) ROBOTICS CLUB organized a technical event "ARTBOTS" on 23rd February 2023. This event started at 1:40 PM with all the members of our club and participants. The event was started with full enthusiasm by exploring the hidden talents of the students.

### WINNERS LIST

STUDENTS NAME	YEAR	POSITION
MOHAMMAD FAZIL KAVINILAVAN	II	I
NIRANJAN PRADEISH MISARA	II	II
APARNA C KANIMOZHI G	II	III

42.



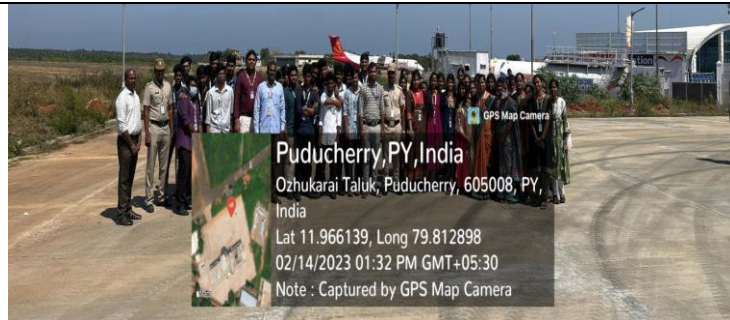
**PIC: CLUB EVENT POSTER.**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) ELECTRICAL CLUB organized a technical event “BRAIN STORM” on 04-02-2023. This exclusive event started at 1.40 PM with all the members of our club. The event was started with “Tamil Thai Vazhthu”. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event.

**WINNERS LIST**

STUDENTS NAME	YEAR	POSITION
Kaviya , Kavipriya, Keerthana	III	I
Mohana Santosh , Guhan	III	II
Navina , Anitta, Darsini	III	III



43.



**PIC: IV PHOTOGRAPH.**

Our II year EEE (Section A, B & C) students having strength of 187 and III year EEE C students having strength of 50 visited Pondicherry Airport on 14/02/2023 and 16/02/2023 to learn about the GPS System, Fire Fighting Systems, Airport Substation and Air Traffic Signaling etc.





<p>44.</p>	 <p style="text-align: center;"><b>PIC: IV PHOTOGRAPH.</b></p>	<p>Our III Year EEE A&amp;B Students Having Strength of 100 Visited NLC India Limited On 13/02/2023 To Learn About The to gain practical knowledge on Thermal Power Plant Component Like Coal Mining, Cooling Unit, Generator, Coal Handling, Generation Side Transformer etc.</p>
<p>45.</p>		<p style="text-align: right;"><b>Criteria 1</b></p> <p>A patent titled “ Smart Hybrid charging station for future smart city application” is published by Dr.R.Brindha, <b>Ms.S.Gomathi</b>, Dr.R.Senthil kumar, Dr.Arun Noyal Doss, Dr.K.Mohanraj, <b>Mr.R.Elanthirayan Ms. S.P.Vedavalli</b>, Mr.B.Bharaneedharan, on 06/01/2023.</p> <p>A patent titled “ Deep Learning based technique to predict the impact of residential energy storage system modelling on power system” is published by Dr.M.Arunkumar, Dr.B.Rajesh Kumar, <b>R.Elanthirayan, R.G.Nirmala</b>, R.Balakrishnan, R.Vignesh Raj, C.Sankari, Vigneshwaran P, on 13/01/2023.</p> <p>A patent titled “ Electric Vehicle battery swapping technology with IoT” is published by <b>Ms. S.P.Vedavalli</b>, Dr.C.Subramani, Mr.B.Vinothkumar, Dr.P.Poornima, <b>Ms.S.Gomathi</b>, Dr.R.Brindha, <b>Mr.R.Elanthirayan</b>, Mr.C.Ebbie Selva kumar, on 13/01/2023.</p> <p>A patent titled “An Adaptive Fuzzy Power Controller Based Wind Energy Conversion System” is published by Mr. S. Radha Krishna Reddy, Dr. Vasanthakumar Natarajan, <b>Dr. Ramesh Babu M</b> , Dr.R.Karthikeyan, A.Udhaya Kumar, Dr.R.Senthil Kumar, Dr.R.Dinesh Kumar, Dr.Swagata Sarkar on 10/02/2023.</p> <p>A patent titled “AI &amp; ML Based System for Prediction of Wind Power for Multi-Turbine” is published by R Vijayaganth, Dr. Vasanthakumar Natarajan, <b>C Venkatesh Kumar</b>, Dr. Sanjay Agal, Dr.Swagata Sarkar, Bhupati, Dr.R.Dinesh Kumar, Dr.R.Kalaivani on 10/02/2023.</p>
<p>46.</p>	<p style="text-align: center;"><b>PLACEMENT DETAILS FOR THE MONTH OF FEBRUARY 2023</b></p>	<p>Total No of students placed = 111 UG + 4 (PG) =115 Students  Total No of Offers = 173 + 4 (PG) = 177 Offers  Total No of Students (UG) = 160  Total No of Eligible Students (UG) = 144 (All Clear &amp; 1 arrear students)  Total No of Eligible Students (PG) = 06  % of students Placed (UG) = 111/144 = 77.09 %</p>

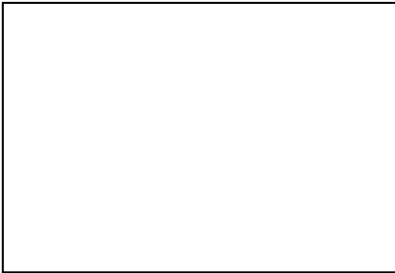
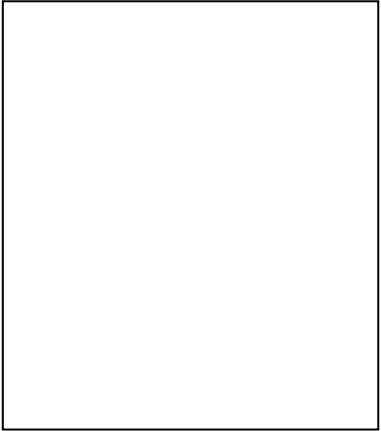
		<p>% of students Placed (PG) = 04 % of students Placed (PG) = <math>04/06 = 66.66\%</math> No of students having single offers = 70 + 04 (PG) No of students having Double offers = 28 No of students having Triple offers = 15 No of students having Quadruple offers = 02</p>
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## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

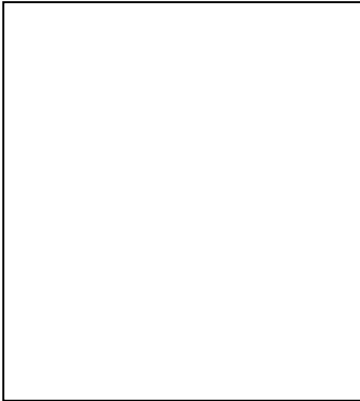

Sl. No.	Title	Detail					
1.	<b>Workshop/STTP Organised</b>	S.No.	Faculty Name	Workshop/STTP Organised	Topic	Date	Link
		1.	Dr.V.Vijayan Dr.B.Senthil Kumar	Guest Lecture	Recent Trends, Issues and Challenges in Instrumentation Technology	11-02-2023	<a href="https://drive.google.com/file/d/1D2LDyOKo7FrbHiWbi6cu48a_eL_SSrxk/view?usp=share_link">https://drive.google.com/file/d/1D2LDyOKo7FrbHiWbi6cu48a_eL_SSrxk/view?usp=share_link</a>
		2.	Dr.V.Vijayan Mr.D.Sankaran	Seminar	Introduction to AR/VR	13-02-2023	<a href="https://drive.google.com/file/d/1Lmze7jUOg_Idt5p4TAKacuxMi1Kac3h0/view?usp=share_link">https://drive.google.com/file/d/1Lmze7jUOg_Idt5p4TAKacuxMi1Kac3h0/view?usp=share_link</a>
		3.	Dr.S.Meena Mr.D.Sankaran	One day Workshop	Robot Design Made Easy	14-2-2023	<a href="https://drive.google.com/file/d/1YE5vIXT8laDdAK_rOinKHhDICjjaPd1Q/view?usp=share_link">https://drive.google.com/file/d/1YE5vIXT8laDdAK_rOinKHhDICjjaPd1Q/view?usp=share_link</a>
		4	Dr.S.Meena Mr.D.Sankaran	Mini Project Expo	Modelling and Simulation tool	17-02-2023	<a href="https://drive.google.com/file/d/1kC2rRz4YryopiyD5R_LMZp5eUIqbXFYI/view?usp=share_link">https://drive.google.com/file/d/1kC2rRz4YryopiyD5R_LMZp5eUIqbXFYI/view?usp=share_link</a>
		5	Dr.V.Vijayan Dr.B.Senthil Kumar	Mini Project Expo	Application using Arduino	21-02-2023	<a href="https://drive.google.com/file/d/11hGdoxLAJdJpFVcdxDB-HppYp1-bHnms/view?usp=share_link">https://drive.google.com/file/d/11hGdoxLAJdJpFVcdxDB-HppYp1-bHnms/view?usp=share_link</a>

# DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution																														
1	    <b>FDP Certificates</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">S.No</th> <th style="width: 45%;">Title of the topic</th> <th style="width: 20%;">Name of the Staff</th> <th style="width: 20%;">Conducted By</th> <th style="width: 10%;">Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>International FDP on Artificial Intelligence in Health Care</td> <td>Dr. Lilly Raamesh C. Heltin Genitha M. Nivethitha Devi J. Gnanasoundharam D. Dinesh Kumar R. Elavarasan</td> <td>Department of EIE, Easwari Engineering College, Chennai</td> <td style="text-align: center;">24-1-2023 to 31-1-2023 (6 days)</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Latest Research in Applications of AI in smart Manufacturing Image Processing IC, Business Intelligence and Text Mining</td> <td>D. Jeyapriya A. Kavitha A. S. Hepsi Ajibah A. Kavitha</td> <td>Educare -Taiwan</td> <td style="text-align: center;">29-1-2023 (1 day)</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>FDP on Cloud Computing</td> <td>R. Shoba</td> <td>AICTE, ATAL</td> <td style="text-align: center;">30-1-2022 to 4-2-2023 (5 days)</td> </tr> <tr> <td style="text-align: center;">4.</td> <td>FDP on Artificial Intelligence</td> <td>A. Kavitha</td> <td>AICTE, ATAL</td> <td style="text-align: center;">16-1-2023 to 20-1-2023 (5 days)</td> </tr> <tr> <td style="text-align: center;">5.</td> <td>Advanced Technology Program on Big Data Analytics</td> <td>Kripa Sekaran</td> <td>Wipro Technologies</td> <td style="text-align: center;">06-02-23 to 10-02-23 (5 days)</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	International FDP on Artificial Intelligence in Health Care	Dr. Lilly Raamesh C. Heltin Genitha M. Nivethitha Devi J. Gnanasoundharam D. Dinesh Kumar R. Elavarasan	Department of EIE, Easwari Engineering College, Chennai	24-1-2023 to 31-1-2023 (6 days)	2.	Latest Research in Applications of AI in smart Manufacturing Image Processing IC, Business Intelligence and Text Mining	D. Jeyapriya A. Kavitha A. S. Hepsi Ajibah A. Kavitha	Educare -Taiwan	29-1-2023 (1 day)	3.	FDP on Cloud Computing	R. Shoba	AICTE, ATAL	30-1-2022 to 4-2-2023 (5 days)	4.	FDP on Artificial Intelligence	A. Kavitha	AICTE, ATAL	16-1-2023 to 20-1-2023 (5 days)	5.	Advanced Technology Program on Big Data Analytics	Kripa Sekaran	Wipro Technologies	06-02-23 to 10-02-23 (5 days)
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Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
2	 <p data-bbox="306 643 642 769"><b>Co-author:</b> <b>Dr. A. Tamizhselvi</b> Published a paper in Scopus Indexed Conference</p>	<p data-bbox="1205 310 1503 337" style="text-align: center;"><b><u>Staff Paper Publication</u></b></p> <p data-bbox="722 345 1992 475">B. Surendiran, K. Dhanasekaran <b>and A. Tamizhselvi</b>, "A Study on Quantum Machine Learning for Accurate and Efficient Weather Prediction," 2022 Sixth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud), Publisher: IEEE, E ISBN:978-1-6654-6941-8, Print ISBN:978-1-6654-6942-5, doi: 10.1109/I-SMAC55078.2022.9987293, pp. 534-537, Nepal, 2022, <b>(Indexed in Scopus)</b></p> <p data-bbox="722 513 2003 808"><b>Abstract:</b> Recently Quantum Computing has gained much attention in the field of data science and computational problem solving. It is expected that the quantum machine learning will help researchers to find solutions for many complex problems in areas such as weather forecasting, data science, computational biology, energy management, secure communication, and many others. This paper presents a study on quantum machine learning techniques, challenges and applications of these techniques in climate change prediction, and weather forecasting towards future research in Quantum Machine Learning and Quantum Computing. It also discusses the latest developments and trends in Quantum machine Learning and presents practical examples to understand how Quantum Machine Learning considerably improves the performances of existing machine learning approaches.</p>
3	 <p data-bbox="338 1300 621 1427"><b>Author:</b> <b>P. Suthanthira Devi</b> Published a paper in Scopus Indexed Journal</p>	<p data-bbox="722 821 2003 980"><b>P. Suthanthira Devi</b>, R. Bala Krishnan, D. Yuvaraj, Varghese, S. Chooralil, N. Rajesh Kumar, B. Karthikeyan, G. Manikandan, "An Improved Steganographic Scheme Using the Contour Principle to Ensure the Privacy of Medical Data on Digital Images, Computer Systems Science and Engineering, Publisher: Tech Science Press, Print ISSN:0267-6192, <a href="https://doi.org/10.32604/csse.2023.035307">https://doi.org/10.32604/csse.2023.035307</a>, Vol. 46, No. 2, pp. 1563-1576, Feb 2023. <b>(Indexed in Scopus)</b></p> <p data-bbox="722 989 2003 1451"><b>Abstract:</b> With the improvement of current online communication schemes, it is now possible to successfully distribute and transport secured digital Content via the communication channel at a faster transmission rate. Traditional steganography and cryptography concepts are used to achieve the goal of concealing secret Content on a media and encrypting it before transmission. Both of the techniques mentioned above aid in the confidentiality of feature content. The proposed approach concerns secret content embodiment in selected pixels on digital image layers such as Red, Green, and Blue. The private Content originated from a medical client and was forwarded to a medical practitioner on the server end through the internet. The K-Means clustering principle uses the contouring approach to frame the pixel clusters on the image layers. The content embodiment procedure is performed on the selected pixel groups of all layers of the image using the Least Significant Bit (LSB) substitution technique to build the secret Content embedded image known as the stego image, which is subsequently transmitted across the internet medium to the server end. The experimental results are computed using the inputs from "Open-Access Medical Image Repositories (aylward.org)" and demonstrate the scheme's impudence as the Content concealing procedure progresses.</p>



Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
4	 <p data-bbox="310 722 590 850"><b>Author:</b> <b>P. Suthanthira Devi</b> Published a paper in Scopus Indexed Journal</p>	<p data-bbox="1207 293 1501 321" style="text-align: center;"><b><u>Staff Paper Publication</u></b></p> <p data-bbox="722 326 2003 423"><b>P. Suthanthira Devi</b>, S. Karthika, “RDNN: Rumor Detection Neural Network for Veracity Analysis in Social Media Text”, KSII Transactions on Internet and Information Systems, doi.10.3837/tiis.2022.12.00, E ISSN: 1976-7277, Vol. 16, No. 12, pp. 3868-3888, Dec 2022. (<b>Scopus Indexed</b>)</p> <p data-bbox="722 461 2003 889"><b>Abstract:</b> A widely used social networking service like Twitter has the ability to disseminate information to large groups of people even during a pandemic. At the same time, it is a convenient medium to share irrelevant and unverified information online and poses a potential threat to society. In this research, conventional machine learning algorithms are analyzed to classify the data as either non-rumor data or rumor data. Machine learning techniques have limited tuning capability and make decisions based on their learning. To tackle this problem the authors propose a deep learning-based Rumor Detection Neural Network model to predict the rumor tweet in real-world events. This model comprises three layers, AttCNN layer is used to extract local and position invariant features from the data, AttBi-LSTM layer to extract important semantic or contextual information and HPOOL to combine the down sampling patches of the input feature maps from the average and maximum pooling layers. A dataset from Kaggle and ground dataset #gaja are used to train the proposed Rumor Detection Neural Network to determine the veracity of the rumor. The experimental results of the RDNN Classifier demonstrate an accuracy of 93.24% and 95.41% in identifying rumor tweets in real-time events.</p>
5	 <p data-bbox="327 1308 569 1373"><b>Ms. Kripa Sekaran</b> published a patent</p>	<p data-bbox="1236 907 1472 935" style="text-align: center;"><b><u>Patent Published</u></b></p> <p data-bbox="722 948 1982 1003"><b>Title of the invention :</b> An artificial Intelligence and Machine Learning based system and method with improved security of nodes data in s blockchain network</p> <p data-bbox="722 1016 940 1040"><b>Name of Inventor :</b></p> <ol data-bbox="768 1052 1083 1365" style="list-style-type: none"> <li>1. Dr. Suneela Bhoompally</li> <li>2. Dr. R. S Srinivas</li> <li>3. Dr. Vasumathi Devi</li> <li>4. Dr. Qazi Mr. Anandbabu</li> <li>5. Ms. S. Jayachitra</li> <li><b>6. Ms. Kripa Sekaran</b></li> <li>7. Dr. M. Murugesan</li> <li>8. Mr. Prashanth</li> <li>9. Mr. J. Ananda Kumar</li> </ol> <p data-bbox="722 1377 1100 1401"><b>Patent Number:</b> 202341004815 A</p> <p data-bbox="722 1414 1178 1438"><b>Date of filing of Application :</b> 21/01/2023</p> <p data-bbox="722 1451 1052 1476"><b>Publication Date:</b> 17/02/2023</p>



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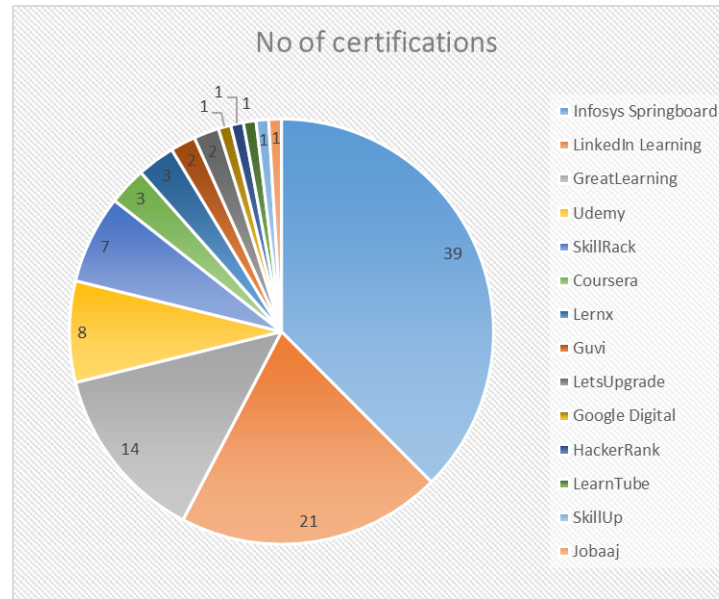


6



## Online Certifications

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MARCH 2023

## DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p><b>FDP/WORKSHOP/CONFERENCE</b></p>  <p><b>SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING</b> (An Autonomous Institution) Rajiv Gandhi Salai (OMR), Kalavakkam - 603110, India. <b>DEPARTMENT OF CHEMICAL ENGINEERING</b></p> <p><b>CERTIFICATE OF APPRECIATION</b></p> <p>This Certificate is proudly presented to</p> <p><u>Ms. Yuwvaranni S.</u></p> <p><u>S.E. Joseph's College of Engineering,</u></p> <p><u>Chennai</u></p> <p>for his/her contribution as a participant in Faculty Development Programme on "Tips to Write Effective Research Papers for Quality Journals" organized by Department of Chemical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, held from 21<sup>st</sup> March 2023 to 30<sup>th</sup> March 2023.</p> <p><u>B. D. Senthil Kumar</u>      <u>Dr. Kilaru Harsha Vardhan</u>      <u>Dr. B. Chitra</u> Convener                      Convener                      Convener</p> <p><u>Dr. K. Sathish Kumar</u>      <u>Dr. V. E. Annamalai</u></p>	<p><b>Ms. Yuwvaranni.S</b> has attended a FDP on Tips to Write Effective Research Papers for Quality Journals 21-30th March 2023, organized by SSN college, Chennai</p>
2.	<p><b>PUBLICATIONS(ONLY PUBLISHED) DETAILS</b></p>	<p><b>Dr. M. Chamundeeswari</b> published a paper on, 'Optimization</p>



## Optimization of photo: active carbon dots for reactive dyes degradation by response surface methodology—an industrial approach

P. Kowsalya<sup>1</sup> · S. Uma Bharathi<sup>1</sup> · S. Sivasankar<sup>2</sup> · M. Chamundeeswari<sup>1</sup>

Received: 6 July 2022 / Accepted: 20 February 2023  
© Iranian Chemical Society 2023

### Abstract

Carbon Quantum Dots are stable photocatalyst which are synthesized from *Spirulina platensis* by microwave assisted technology. The synthesized CQDs contain rough surface and distributed in less than 10 nm size and exhibited strong blue fluorescence under UV transilluminator and PL spectra analysis. CQDs effectively degraded 150 ppm concentration of Reactive Blue MR, Reactive Orange M2A and Reactive Yellow M4G by the ratio of 1:10 (Catalyst and Dye) and required 4, 8 and 10 h for complete degradation, respectively. But in case of mixture of reactive dyes, 1:5 of catalyst and dye were used and it requires 10 h for complete degradation under sunlight. We also statistically studied optimized conditions for dye degradation using Response Surface Methodology for process parameters such as concentration, pH, volume, and time. The degradation reaction follows first order kinetics, and the removal of CQDs from treated water is attained by charcoal as an adsorbent. Modification of functional groups during dye degradation was analyzed by using FTIR. Various physico-chemical parameters such as BOD, COD, TOC, TIC and metal ions were studied to determine the quality of degraded water. 95% of various reactive dye can be effectively degraded by biosynthesized metal ion or chemical free natural CQDs. Hemolytic effect and cytogenetic effect of CQDs and treated water proved synthesized CQDs are non-toxic to living organism.

**Keywords** CQDs · Cytogenetic effect · Hemocompatibility · Photocatalyst · Reactive dyes

### Introduction

Synthetic dyes are widely used in various industries such as textile, leather, food, paper and pharmaceutical industries for production of value-added products which can promote human welfare. The discharged industry effluent primarily changes the color, pH and odor of the water environment [1]. The low concentration of dye can cause severe changes of physical and chemical properties of water source, and it initially affects the living organism which is present in water sources [2]. Dyes are classified based on their source,

application characteristics, ionic nature and chemical structure of dyes. According to source of dye, it can be classified into natural and synthetic dyes. Acidic, basic, reactive, disperse, mordant, direct and vat dyes are grouped by based on application characteristics of dyes. Depending on the ionic nature of dye molecules, they can be categorized into anionic, cationic and non-ionic dyes. In addition, based on the chemical structure of dye molecules, it can be classified into azo, nitro, carotenoid, acridine, quinoline, anthraquinone, indamine, diphenyl methane, amino- and hydroxy ketone and xanthene sulfur etc., Acidic and reactive dyes are water soluble; hence, they are commonly used for cotton, nylon, silk, and wool. But disperse dyes are partially water soluble, and they are used for dyeing polyester fibers [3], [4], [5].

Reactive dyes are commonly used in the textile industry because they give bright colors, stable in their structures and operate at mild conditions [6]. Reactive dyes are typically azo-based chromophores with various reactive groups, and they linked by an azo bridge. The general structure of reactive dye is:



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<sup>1</sup> Department of Biotechnology, St. Joseph's College of Engineering, OMR, Chennai 600119, India

<sup>2</sup> Research and Development Incharge, Shilpa Park, Old Perungalathur, Chennai 600063, India

<sup>3</sup> Department of Biotechnology, St. Joseph's College of Engineering, OMR, Chennai 600119, India

of photo:active carbon dots for reactive dyes degradation by response surface methodology - an industrial approach', Journal of the Iranian Chemical Society, https://doi.org/10.1007/s13738-023-02776-z, Impact factor : 2.271

Dr. M. Chamundeeswari published a paper on, 'Photocatalytic treatment of textile effluents by biosynthesized photo-smart catalyst: an eco-friendly and cost-effective approach', Environment, Development and Sustainability, https://doi.org/10.1007/s10668-023-03172-6, Impact factor : 4.080



## Photocatalytic treatment of textile effluents by biosynthesized photo-smart catalyst: an eco-friendly and cost-effective approach

P. Kowsalya<sup>1</sup> · S. Uma Bharathi<sup>2</sup> · M. Chamundeeswari<sup>3</sup>

Received: 26 December 2022 / Accepted: 15 March 2023

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### Abstract

Worldwide, textile industry provides strong financial support for several countries because it provides more employment without any special training skills. Nevertheless, in the textile industry, various chemicals and large volumes of water are mainly used for the dyeing process and discharged effluents are toxic to living organisms if released without treatment. We have prepared an efficient photocatalyst carbon quantum dots (CQDs) from *Spirulina platensis* by microwave-assisted method. The powder form of CQDs is distributed in 10 nm in size studied by transmission electron microscope (TEM) and atomic force microscope (AFM). An optical and functional properties of CQDs were examined by photoluminescence (PL) spectrophotometer, Fourier transform infrared (FT-IR) and X-ray diffraction (XRD). It also exhibits a strong cyan blue fluorescence under UV transilluminator. Scavenging activity of CQDs was studied by 2,2-diphenylpicrylhydrazyl (DPPH) assay. 1 mg/mL of CQDs effectively degraded textile effluents under optimized conditions. The pro-

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**Copy of paper published by Dr.M.Chamundeeswari**

### 3. FUNDED PROJECTS

**Ms.K.R.Preethy** was Sanctioned TNSTC project on the title “Synthesis of reduced graphene oxide using modified hummers method for cancer treatment” for amount Rs.7500





தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்  
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)  
Directorate of Technical Education Campus, Chennai – 600 025.  
Ph : 044-22301428, www.tanscst.nic.in

Dr.R.SRINIVASAN, M.Sc., Ph.D., F.I.C.S., M.A.C.S.(USA)  
Member Secretary

Lr.No.TNSCST/SPS/BS/2022-2023

To  
The Principal  
St.Joseph's College of Engineering,  
OMR, Semmancheri,  
Chennai - 600 119



03.03.2023

Sir/Madam,

Sub: TNSCST – Student Project Scheme – 2022-2023 – approval intimation–grant release- reg.

With respect to the above scheme, the list of projects approved by the State Council is enclosed along with terms and conditions. You are requested to adhere to terms and conditions such as submission of UC and Seminar Paper on Time.

1.	Ms .S.P.Vedavalli, Assistant Professor, Department of ECE, St.Joseph's College of Engg., Chennai-600 119	Non-isolated dc-dc power converter with high gain for ev applications	N.Vaidhyanathan, K.Vigneshwaran,	EEE-1998	The Principal	Rs 7500/-
2.	Ms.K.Deepa, Assistant Prof., Department of IT St.Joseph's College of Engg., Chennai-600 119	Deep learning based cyclone intensity estimation using insat-3D IR imagery	Dharshini.N, Jane Ann Elson,	CSE-1728	The Principal	Rs 7500/-
3.	Ms.Preethy.K.R, Assistant Professor, Department of Biotechnology, St.Joseph's College of Engg., Chennai-600 119	Synthesis of reduced graphene oxide using modified hummer's method for cancer treatment	Theebika B, Gayathri S,	MS-0755	The Principal	Rs 7500/-

**Copy of Project sanctioned for Ms.K.R.Preethy**

**4. STAFF CONFERENCE PRESENTATION**

**Ms.Yuwvararanni.S** has Presented a paper titled "Comparative Studies on Synthesis and Characterization of Calcium Oxide Nanoparticle from Chemical and Natural Source" in an International conference embracing biotechnology for a sustainable future held on March 10-11th, 2023. Organized by Department of Biotechnology, Rajalakshmi Engineering College, Thandalam, Chennai.



Copy of certificate Ms.Yuwvaranni




Copy of certificate Ms.B.Sangeetha

Ms.B.Sangeetha, participated in the International Conference on "Embracing Biotechnology for a Sustainable future" organized by Rajalakshmi Engineering College, Chennai on 10<sup>th</sup> and 11th March 2023.

## DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
	<b>COLLABARATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS</b>	- <b>Dr.Senthil Rathi.P, Assistant Professor</b> , has received an Offer as a Research Fellow International at UNITEN, Malaysia
	<b>COMPETITIONS ATTENDED BY STUDENTS</b>	i. <b>Mr.Muthu Aravindh.M</b> and <b>Mr.Osama Ali.A</b> of <b>Illrd Year</b> Chemical has Participated in National Level Technical Symposium ( <b>AAVISHKAR- 2K23</b> ) conducted by Department of Chemical Engineering, Coimbatore Institute of Technology on 11.03.2023
	<b>AWARDS/PRIZE WON BY STUDENTS</b>	i. <b>Mr.Muthu Aravindh.M</b> and <b>Mr.Osama Ali.A</b> of <b>Illrd Year</b> Chemical has <b>Won 2<sup>nd</sup> place</b> in <i>Poster Presentation on National Level Technical Symposium ( AAVISHKAR- 2K23)</i> conducted by Department of Chemical Engineering, Coimbatore Institute of Technology on <b>11.03.2023</b>
	<b>PUBLICATIONS(ONLY PUBLISHED) DETAILS</b>	- <b>Dr.Venkatesh.N, Professor</b> has published “ <i>Oleic acid-rich waste fleshing oil as a secondary carbon source for the synthesis of sophorolipids</i> ” in <b>Environmental Progress and Sustainable Energy</b>

# DEPARTMENT OF MECHANICAL ENGINEERING

SI No	Name of the Activity	Remarks
1	<p>Paper Published:</p> 	<p>➤ Arunkumar, N., Ganesh, M., Rajaram, M., Saravana Kumar, E. (2023), Deep hole drilling of AISI 1045: effect on hole quality &amp; tool wear under flood, emulsion, and mist cooling technique. J. Braz. Soc. Mech. Sci. Eng. 45, 195 (2023). <a href="https://doi.org/10.1007/s40430-023-04123-y">https://doi.org/10.1007/s40430-023-04123-y</a></p>

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### 1. Publications:

The following staff members have published the research papers during March in Journal at International Level

S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Publication
1.	Lakshmi D	Prediction of Age, Gender and Ethnicity using Haar Cascade Algorithm in Convolutional Neural Networks	World Conference on Artificial Intelligence: Advances and Applications 2023, 18-19 March 2023	Proceedings to be published in Springer Book Series "Algorithms for Intelligent Systems" Scopus Indexed	Presented and Yet to be indexed



## DEPARTMENT OF MATHEMATICS

Events	Remarks
<p><b>Publications(only published) details</b></p>	<ol style="list-style-type: none"> <li>1. <b>P. Agilan, K. Julietraja</b>, Mohammed M. A. Almazah, and Ammar Alsina, Stability Analysis of a New Class of Series Type Additive Functional Equation in Banach Spaces: Direct and Fixed Point Techniques. Mathematics , February 2023, Volume 11, No 4, pp: 1-19, <a href="https://doi.org/10.3390/math11040887">https://doi.org/10.3390/math11040887</a> , SCIE</li> <li>2. Annmaria Baby, <b>K. Julietraja</b> and D. Antony Xavier, On Molecular Structural Characterization of Cyclen Cored Dendrimers. Polycyclic Aromatic Compounds, February 2023, pp: 1-23 , <a href="https://doi.org/10.1080/10406638.2023.2179641">https://doi.org/10.1080/10406638.2023.2179641</a> , SCIE</li> <li>3. D. Antony Xavier, <b>K. Julietraja</b> and Theertha Nair A, Distance Based Structural Descriptors of Nonconjugated Ethylene Oxide Dendritic Core Decorated with Tetraphenylethylene. Polycyclic Aromatic Compounds, February 2023, pp: 1-18, <a href="https://doi.org/10.1080/10406638.2023.2179642">https://doi.org/10.1080/10406638.2023.2179642</a> , SCIE</li> <li>4. <b>G.Venkat Narayanan</b>, M. Saravanan, Simple Graphoidal Cover on Bicyclic Graphs. Indian Journal of Natural Sciences, February 2023, Vol. 13, No. 56, pp: 53647- 53657 , WOS</li> </ol>

## DEPARTMENT OF MBA

### GUEST LECTURE:



Mr. Ponnarasu,  
Assistant Vice President – Kotak Securities

Department of MBA organized an Guest Lecture on “Sales as Career – An Alumni Interactive Session” organized on 16.03.2023, Around 125 students participated in this session.

## WORKSHOP/FDP/STTP/CONFERENCE / SEMINAR ATTENDED BY FACULTY:



**NPTEL-AICTE**  
Faculty Development Programme  
(Funded by the H.O.T., Govt. of India)

This certificate is awarded to  
**K JAWAHAR RANI**  
for successfully completing the course  
**Business Law for Managers**  
with a consolidated score of **82 %**

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IT Madras

Duration of NPTEL course: 8 Weeks

Roll No: NPTEL23MG40524347335

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.  
This certificate is however acceptable for promotions under CAS in the AICTE regulations dated 29.09.2019, hence to other relevant promotion courses.  
F.No. AICTE / R/FDP / FDP through MOOCs / 2017-18

**THE NEW COLLEGE, CHENNAI-600014**  
(An Autonomous Institution affiliated to the Government of Tamil Nadu)  
**PG & RESEARCH DEPARTMENT OF ECONOMICS**  
**ACADEMIC ACTIVITY CLUB**

**CERTIFICATE OF PARTICIPATION**

XAIPEE-CE000323

This is to certify that **Dr.Lekshmi.R.S, Professor, MBA, St.Joseph's College of Engineering**, participated in the International level Workshop on **"Treatment of Time Series and Panel Data: An application of Econometric Model"** organized by Academic Activity Club, Post Graduate and Research Department of Economics, The New College, Chennai - 600014, on **21<sup>st</sup> March 2023**.

**Dr. M. Abdul Jamal** Coordinator  
**Dr. A. Abdul Raheem** Coordinator (Shift-II)  
**Dr. S. Kareemulla Basha** Head of Department  
**Dr. S. Baskere Ahamed** Principal

Made for free with Certify'em

Dr.K. Jawahar Rani has successfully completed the NPTEL Course on Business Law for Managers

Dr.Lekshmi RS has participated in the International Level workshop on Treatment of Time series and panel data: An application of Econometric model organised by The New College, Chennai on 21.03.2023.



Dr.Lekshmi RS has acted as the International Session Chair in ICEABM 2023 organised by SRM Institute of Science and Technology, Vadapalani on 30 & 31 March 2023.



Dr.RS.Lekshmi, Dr.K.Sampath, Dr.L. Rajeshkumar and Dr.U.Madhanrajan have participated in the International FDP on Essentials of Research and Publication organised by Easwari Engineering College, Chennai from 13.03.2023 to 17.03.2023.

**STUDENTS ACHIEVEMENTS:**

<b>S.NO.</b>	<b>EVENTS</b>	<b>NAME OF THE STUDENT</b>	<b>YEAR</b>	<b>POSITION</b>	<b>CASH PRIZE</b>
1.	PAPER PRESENTATION	MS. V. HEMAVANI MS.C.KALAIVANI	I – MBA	I	₹.1000/-
2	BUSINESS QUIZ	Mr. JABIN SAMUEL RAJ Mr. KARTHICK	I – MBA	II	-



## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	FDP/Workshop/Conference	<p><b><u>Resource Person:</u></b> 1. Dr. P. Krishnan has delivered a lecture as resource person in one day faculty development programme on “Advanced Materials” conducted by “Saveetha University , Chennai” held on 24.03.2023.</p> <p><b><u>Participated</u></b> 1. Dr. S. Kiruba, Dr. N. Punitha, Dr. A. Arulmozhi, Dr. A. Mahalakshmi, Ms. S. Savitha, Dr. S. Rama, Dr. C. Abinaya, Dr. T.L. Ajeesha attended International Faculty Development Program on “Advanced Functional Materials Energy, environment and Sustainable Development” conducted by “SRM TRP Engineering College, Trichy” held between 28.02.23 and 09.03.23 2. Dr. K. Jayamoorthy and Dr. B. Subash attended International Faculty Development Program on “Recent Advancements in Science and Technology” conducted by “Alliance University,” held between 06.03.23 and 10.03.23. 3. Dr. S. Kiruba attended National faculty development program on “Tools for Research Paper Preparation and Indexing” conducted by “Scientific Research Reports, Chennai, India” held between 15.03.23 and 19.03.23. 4. Dr. N.R. Rajagopalan and Dr. S. Manikandan attended National faculty development program on “Tamils and Technology” conducted by “Anna University, Chennai” held between 20.03.23 and 25.03.23. 5. Dr. S. Rama attended National webinar on “Essentials of effective Technical Writing and project proposal framework” conducted by “Methodist College of Engineering and Technology, Hydrabad” held on 18.03.23. 6. Dr. G. Murugan attended National webinar on “Smart Nano sensor Technology for Medical Diagnostics” conducted by “Sri Ramakrishna Engineering College, Coimbatore” held on 24.03.23.</p>
2	Awards/Prize won by students / Staff	1. Dr. K. Jayamoorthy has been awarded Best paper award for his conference paper titled “Fluorescence quenching of mercaptobenzimidazole derivative with ZrO <sub>2</sub> nanoparticles” presented in the “International Conference on Materials” conducted by “Dr.R.K.Shanmugam College Of Arts And Science, Kallakurichi” held between 2.3.23 and 3.3.23. He also

		<p>presented totally 7 conference articles in the event.</p> <p>Reviewers:</p> <p>2. Dr. K. Jayamoorthy has acted as reviewer for the following reputed journals.</p> <ol style="list-style-type: none"> <li>1. Arabian Journal of Chemistry – March 2023</li> <li>2. Current Organic Chemistry – March 2023</li> <li>3. Journal of fluorescence – March 2023</li> </ol> <p>3. Dr. A. Arulmozhi has acted as reviewer for Journal of Material Science: Materials in Electronics - March 2023</p> <p>4. Dr. N. Punitha, Dr. S.M. Prakash, Dr. K. Sathesh Kumar, Dr. S. Rama have obtained their Anna university Research guideship.</p>
3	<b>Publications(only published) details</b>	<ol style="list-style-type: none"> <li>1. Dr. G. Sasikumar published a paper titled “Catalytic, Theoretical, and Biological Investigations of Ternary Metal (II) Complexes Derived from L-Valine-Based Schiff Bases and Heterocyclic Bases” in the journal “Molecules”. <b>2023</b>, 28(7), 2931</li> <li>2. Dr. N. Punitha and Dr. K. Jayamoorthy published a paper titled “Effect of MPA capping on the structural, optical and thermal properties of Zn<sub>0.96</sub>Ni<sub>0.04</sub>S nanoparticles” in the journal “Inorganic and Nano-Metal Chemistry”. (doi: <a href="https://doi.org/10.1080/24701556.2023.2188453">https://doi.org/10.1080/24701556.2023.2188453</a>)</li> <li>3. Dr. K. Satheshkumar and Dr. S.M. Prakash published a paper titled “Spectral studies and non-linear optical properties of an organic crystal: Piperazine-1,4-Diiumbis(4-aminobenzenesulfonate)” in the journal “Journal of non linear optical physics and materials”.( doi: <a href="https://doi.org/10.1142/S0218863523500558">https://doi.org/10.1142/S0218863523500558</a>)</li> </ol> <p><b>Patents:</b></p> <ol style="list-style-type: none"> <li>1. Dr. S. Kiruba, Dr.A. Arulmozhi, Dr. V. Swarnalatha, Dr. S.M. Prakash published a patent titled “Analysis and strategic management of nanoproducts with regard to their sustainability potential” in the journal issue 11/2023 dated 17.03.23.</li> <li>2. Dr. N. Punitha published a patent titled “An Evaluation on Ecological Consequences of Nano Technology in Agriculture” in the journal issue 11/2023 dated 17.03.23.</li> </ol>
4	<b>Funded Projects</b>	<p>The following staff members have applied for funded projects.</p> <ol style="list-style-type: none"> <li>1. Dr. S. Suresh – SERB</li> <li>2. Dr. P. Saravanan – SERB</li> <li>3. Dr. B. Subash – SERB</li> <li>4. Dr. S. Rama - SERB</li> <li>5. Dr. K. Jayamoorthy – TN Chief Minister Grant</li> </ol>

## DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	Guest Lecture / Webinar Organized	<ul style="list-style-type: none"> <li>● <b>Dr.S.Thenmozhi and Dr.V.Gowri has organized an</b> AICTE Recognized FDP on “ Low Cost Housing Techniques and Practice” from 13-03-2023 to 17-03-2023 by online mode in collaboration with NITTTR, Chandigarh.</li> </ul>
2.	FDP/Workshop/Conference attended	<ul style="list-style-type: none"> <li>● <b>Dr.S.Thenmozhi, Dr.V.Gowri, Mrs.S.Banupriya &amp; Mrs.R.Ruthra</b> have attended 5 days FDP "Environmental Engineering &amp; Sustainability - Research, Technologies &amp; Challenges" organised by Department of Civil Engineering, NMIT in association with Skill Council for Green Jobs, Govt. of India &amp; Prakruthi Institute of Environmental Studies from 27-02-2023 to 03-03-2023</li> <li>● <b>Dr.S.Thenmozhi, Dr.K.Vijai, Dr.V.Gowri, Mr.S.P.Senthil Kumar, Mrs.S.Banupriya, Ms.R.Adlin Rose and Ms.R.Ruthra</b> have attended online AICTE Recognized FDP on “ Low Cost Housing Techniques and Practice” conducted by NITTR, Chandigarh, from 13-03-2023 to 17-03-2023 at St.Joseph’s College of Engineering, Chennai-119.</li> <li>● <b>Mrs.R.Ruthra and Mrs.S.Banupriya</b> attended 5 days Virtual FDP on “Sustainable Repair and Rehabilitation of Constructed Facilities “organized by the School of Civil Engineering, from 06-03-2023 to 10-03-2023 at VIT, Chennai</li> <li>● <b>Dr.S.Thenmozhi</b> Presented a paper titled, “Stabilization of Expansive Soil Using Agro Wastes and Plastic Bottle Strips” in 4th International Conference on Sustainable Environment and Civil Engineering (ICSECE 2023) on 30.03.2023 organized by Department of Civil Engineering, Easwari Engineering College, Chennai-89. Engineering College, Chennai-89.</li> <li>● <b>Dr.V.Gowri and Dr.S.Thenmozhi</b> Presented a paper titled “Stabilization of Compressed Fly ash Brick with Meta kaolin” in 4th International Conference on Sustainable Environment and Civil Engineering” (ICSECE 2023) on 30.03.2023 organized by Department of Civil Engineering, Easwari Engineering college, Chennai-89.</li> </ul>

		<ul style="list-style-type: none"><li>● <b>Mr.S.P.Senthil Kumar</b> Presented a paper titled “Enhancing the strength of Thermally affected concrete by Retrofitting using Carbon Fiber Reinforced polymer Wrapping” in 4th International Conference on Sustainable Environment and Civil Engineering” (ICSECE 2023) on 30.03.2023 organized by Department of Civil Engineering, Easwari Engineering college,Chennai-89</li><li>● <b>Mrs.R.Ruthra</b> presented a paper titled “Spatial Temporal Landuse and Landcover changes in Pulicat Lake using Remote Sensing and GIS Analysis” in 4th International Conference on Sustainable Environment and Civil Engineering” on 30-03-2023 organized by Department of Civil Engineering, Easwari Engineering college,Chennai-89.</li></ul>
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# DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	Remarks
1.	 <p><b>St. JOSEPH'S COLLEGE OF ENGINEERING</b> (An Autonomous Institution) St. Joseph's Group of Institutions OMR, Chennai - 119</p> <p><b>IEEE</b> St. Joseph's College of Engineering IEEE Robotics and Automation Society</p> <p>DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING in association with IEEE ROBOTICS AND AUTOMATION SOCIETY presents</p> <p><b>ZEN ACTUATOR</b></p> <p>MAR 22 2023</p> <p>6-7PM</p> <p>E - Certificates will be provided</p> <p><b>Chief Patron</b> Dr. B. Babu Manoharan M.A., M.B.A., Ph.D. Chairman, St. Joseph's Group of Institutions</p> <p><b>Patrons</b> Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering Dr. V. Vallinayagam M.Phil., Ph.D. Dean Students Affairs, St. Joseph's College of Engineering Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering Dr. G. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering <b>Convenor</b> Dr. T.V. Narmadha M.E., Ph.D. Professor &amp; Head, UG Affairs <b>SBC Advisor</b> Dr. Jayarama Pradeep M.E., Ph.D. Professor &amp; Head, Staff Editors <b>Staff Coordinator</b> Mr. R. Sreekanth M.E., Ph.D. Assistant Professor <b>Student Coordinators</b> Aparnaa   Rakshit Roshan   Keerthana   Sobana   Gokul Kumar   Soom sudha   Sujitha</p> <p>*For Admissions: visit <a href="http://www.stjosephstechnology.ac.in">www.stjosephstechnology.ac.in</a> or contact: +91 99401 04881 / +91 99401 04882</p> <p><b>PIC: IEEE EVENT POSTER</b></p>	<p>Zen Actuator was organized by IEEE SJCE SBC under IEEE Robotics and Automation Society for the college students. The event was conducted in Google meet It is a amazing quiz event Conducted for students to make them to know about science and technology, conducted on on 22th march 2023. Over 20 students participated in it and are benefited. E-Certificates are distributed to the participants. Student Coordinators G.Aparnaa, R.Gokul Kumar, V.Rakshit Roshan, B.Santhosh, N.Rupesh, M.N.Pragadeesh, Sujitha, somsudha, soundharya, Sanjay kumar coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor."</p>



2.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
**St. Joseph's Group of Institutions**  
OMR, Chennai - 119

**IEEE** **IEEE** **ABIA** **NBA** **AI** **nirf** **Cambridge**

மின் மற்றும் மின்னணு பொறியியல் துறை  
உடன் இணைந்து  
**IEEE SJCE SB மாணவர் மன்றம்**  
பெருமையுடன் வழங்கும்  
**சிந்தனை அருவி**  
---ஒரு வெற்றிடங்களை நிரப்பும் போட்டி---

பதிவு செய்ய  
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தேதி: 31.03.2023  
நேரம்: 7.00pm - 8.00pm

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

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**Dr. V. Vallinayagam M.Phil., Ph.D.**  
Dean (Students Affairs), St. Joseph's College of Engineering

**Dr. A. Chandra Sekar M.E., Ph.D.**  
Dean (Research), St. Joseph's College of Engineering

**Dr. C. Sreekumar M.Sc., M.Tech., Ph.D.**  
Dean (Academic), St. Joseph's College of Engineering

**Convenor**  
Dr. T.V. Narmadha M.E., Ph.D.  
Professor & Head - L&E Dept.

**SBC Advisor**  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Soft Skills

**Staff Coordinator**  
Mr. R. Sreekanth M.E., Ph.D.  
Assistant Professor

**Student Coordinators**  
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephscollegeofengineering.ac.in](http://www.stjosephscollegeofengineering.ac.in) or contact: +91 99401 04881 / +91 99401 04882.

PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a tamil quiz "சிந்தனை அருவி" which is related to tamil fill in the blanks on 31 st March 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 35 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Anitta , Ajay and Nandhini and the others were provided with participation certificates. The student coordinators for this event are Deepika U ,Jayavarshini M J , Abinaya Priya R A , Shiva D, Sunil Kumar M.

3.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
**St. Joseph's Group of Institutions**  
OMR, Chennai - 119

**IEEE** **IEEE** **ABIA** **NBA** **AI** **nirf** **Cambridge**

மின் மற்றும் மின்னணு பொறியியல் துறை  
உடன் இணைந்து  
**IEEE SJCE SB மாணவர் மன்றம்**  
பெருமையுடன் வழங்கும்  
**வினாடி வினா**  
---ஒரு தமிழ் வினா விடை போட்டி---

பதிவு செய்ய  
QR Code  
[https://bit.ly/வினாடி\\_வினா](https://bit.ly/வினாடி_வினா)

தேதி: 31.03.2023  
நேரம்: 6.00 pm - 7.00pm

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

**Chief Patron**  
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Chairman, St. Joseph's Group of Institutions

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**Dr. V. Vallinayagam M.Phil., Ph.D.**  
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**Dr. A. Chandra Sekar M.E., Ph.D.**  
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Dean (Academic), St. Joseph's College of Engineering

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**SBC Advisor**  
Dr. Jayarama Pradeep M.E., Ph.D.  
Professor & Head - Soft Skills

**Staff Coordinator**  
Mr. R. Sreekanth M.E., Ph.D.  
Assistant Professor

**Student Coordinators**  
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephscollegeofengineering.ac.in](http://www.stjosephscollegeofengineering.ac.in) or contact: +91 99401 04881 / +91 99401 04882.

PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a tamil quiz event "வினாடி வினா" on 31st March 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 30 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Navina, Bharath, Abinaya and the others were provided with participation certificates. The student coordinators for this event are Deepika U ,Jayavarshini M J , Abinaya Priya R A , Shiva D Sunil Kumar M.

4.



PIC: IEEE EVENT POSTER

The IEEE Power Electronics Society of St Joseph's College of Engineering Student Branch Chapter organized a technical workshop on 9 March 2023 on the topic, "DESIGN AND FABRICATION OF ELECTRIC VEHICLE". The resource person of the workshop session were Dr.A.Bharathi Sankar, Assistant Professor Senior Grade 2, School Of Electronics Engineering, VIT University Chennai Campus and Dr.R.Seyezhai, Professor, Department Of Electrical and Electronics Engineering, SSN College of Engineering, Chennai. The resource person gave a brief explanation about electric vehicles and the need and importance of electric vehicles to start off the session. The session was extremely beneficial to the budding engineers who are interested to learn regarding electric vehicles. The resource person covered the concepts in fundamentals, aerodynamics of EV, its benefits, working of Electric vehicles etc... The participants were interactive throughout the session.

5.



The IEEE Power Electronics Society of St Joseph's College of Engineering hosted the **GRAND THEFT**, a CHALLENGING EVENT. The event was conducted on 27.03.2023 through online mode. "Grand Theft," was successfully conducted with participants putting their detective skills to the test. The game ran on a Google Forms website, where 10 crime scene solving multiple-choice questions were asked. Participants had to use their critical thinking and problem-solving abilities to deduce the correct answers. This provided an opportunity for participants to assess their performance and evaluate their knowledge in the field of crime-solving. Grades for the participants were given based on the number of right questions answered. E-certificate were given to the winners and participants.

**PIC: IEEE EVENT POSTER**

6.



The poster is for the IEEE Power Electronics Society event 'BIRD BASH'. At the top, it features the motto 'The Class, We Do It!' and the name of St. Joseph's College of Engineering (An Autonomous Institution), St. Joseph's Group of Institutions, OMR, Chennai - 119. It includes accreditation logos for AICTE, NBA, NCA, and NIRF Cambridge. The event is presented by the Department of Electrical and Electronics Engineering in association with the IEEE Power Electronics Society. The central graphic shows Angry Birds characters with the text 'BIRD BASH'. A QR code is provided for participation. The event details are: Date: 27-03-2023, Mode: Online, Timings: 7AM-10PM. A note states 'E-certificate will be provided to all participants'. The poster lists the Chief Patron, Patrons, Convener, SBC Advisor, Staff Coordinator, and Student Coordinators.

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessia Priya M.Com  
Managing Director, St. Joseph's Group of Institutions  
Mr. B. Sivasubramanian M.Sc.  
Executive Director, St. Joseph's Group of Institutions

**Convener**  
Dr. V. Vallinayagam M.Phil., Ph.D.  
Dean (Academics), St. Joseph's College of Engineering

**SBC Advisor**  
Dr. A. Chandra Sekar M.E., Ph.D.  
Dean (Research), St. Joseph's College of Engineering

**Staff Coordinator**  
Dr. C. Sreekumar M.Sc., M.Tech., Ph.D.  
Dean (Academics), St. Joseph's College of Engineering

**Student Coordinators**  
Dr. T. J. Sureshbabu M.T., M.A.  
Professor & Head, Lab. Affairs  
Dr. Jayarama Prasad M.E., Ph.D.  
Associate Professor  
Mr. K. Sureshbabu M.A., M.A.  
Assistant Professor

**EMAIL**  
ieeejeece\_pets2023@gmail.com

**INSTAGRAM**  
@ieeepets\_sjce

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in), or contact: :91 99401 04881 / :91 99401 04882.

**PIC: IEEE EVENT POSTER**

The IEEE Power Electronics Society of St Joseph's College of Engineering hosted the **BIRD BASH**, a TECHNICAL EVENT. The event was conducted on 27.03.2023. Bird Bash is an online quiz and game event hosted on the website classtools.net. Participants must answer a minimum of 10 out of 15 Power electronics related multiple-choice questions to pass the quiz. Successful participants will be granted access to the 'Fling the Teacher' game, which is similar to the popular 'Angry Birds' game. The game lasts for 60 seconds, and the player must hit targets to score points. This makes the event more entertain. E-certificate were given to the winners and participants.

7.

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
St. Joseph's Group of Institutions  
OMR, Chennai - 119

**Counselling Code : 1317**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**SOCIAL AWARENESS CLUB**  
ORGANIZE

**RENDEZVOUS**  
NOTHING WILL WORK UNLESS YOU DO

REGISTER HERE **FOR 2<sup>nd</sup> YEARS**  
on **07<sup>th</sup> MARCH 2023**

<https://forms.gle/foYAYVe6QA6hwQc8A> **1.10PM-3.00PM**

**Chief Patron**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

**Patrons**  
Mrs. S. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Dr. V. Vallinayagam** M.Sc. M.Phil. Ph.D. Dean Student Affairs, St. Joseph's College of Engineering  
**Dr. A. Chandra Sekar** M.E. Ph.D. Dean Research, St. Joseph's College of Engineering  
**Dr. C. Sreekumar** M.Sc. M.Tech. Ph.D. Dean Academics, St. Joseph's College of Engineering

**Convenors**  
Dr. Jayarama Pradeep M.E. Ph.D. Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E. Ph.D. Professor & Head - Lab/Office

**Coordinators**  
Mr. R. Elanthirayan M.Tech. (Ph.D.) Assistant Professor  
Ms. S. P. Vedavalli M.E. (Ph.D.) Assistant Professor

**Student Coordinators**  
HARISHKUMAR K. NIKUNTHASIBI DHYANESH P. AMIRTHA VARSHINI M. THEJA THARUN S. R. SEVA MALAVANES. RANYA R. KAVYA D. VISHNU PRIYA S. ABHINAV PRIYA S.A. HARIV JAKHES. ATHINDRAN K. ARUNAB D. HIMESH VISHU S. KAVIN KUMAR S. KAVYAM. MADALAKOMLA. SURESH S.

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04861 / +91 99401 04862

**PIC: SAC EVENT POSTER**

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **SOCIAL AWARENESS CLUB** organized a technical event “**RENDEZVOUS**” on **07/03/2023**. This exclusive event started at **1:40PM** with all the members of our club. The event started with “**TAMIL THAI VAZHTHU**” and the event started exploring the hidden talent of our Students.

STUDENT NAME	YEAR	POSITION
KAILASH I PRAKASH M	II-A	I
PRIYADHARSHINI D PRIYADHARSHINI V	II-B	II
JOSHAN DAVISON A AKASHUAL .A	II- A	III



8.



**PIC: CLUB EVENT POSTER**

St. Joseph's College of Engineering (Electrical & Electronics Engineering) **ROBOTICS CLUB** organized a technical event “**TECHNOXIAN**” on 11<sup>th</sup> **March 2023**. This event started at 11:00 AM with all the members of our club and participants. The event was started with full enthusiasm by exploring the hidden talents of the students.

STUDENTS NAME	YEAR	POSITION
SRINIVAS R SARAVANA SRINIVAS M	II	I
VASANTH KUMAR S THIRUMALAI B	II	II
ARAVIND RAJ BHARATH RAJ	II	III



9.

**WARTECH**

For Registration:  
<http://surl.li/fiefj>

1:00PM to 3:00PM  
**For 2<sup>nd</sup> YEAR**

**Certificates Will Be Provided for Winners**

**10th MARCH**

**Chief Patron**  
 Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
 Chairman, St. Joseph's Group of Institutions

**Patrons**  
 Mrs. B. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
 Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering  
 Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Convenors**  
 Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering  
 Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering  
 Dr. G. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

**Coordinators**  
 Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs  
 Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs  
 Dr. T.D. Sudhakar M.E., Ph.D. Professor / EEE  
 Mr. R. Elanthirayan M.Tech., (Ph.D.) Assistant Professor / EEE

**Student Coordinators**  
 ALFRED EINSTEIN AMIRTHAVARSHINI M MUGUNTHASRI R BHARATHRAJ M ABINAYA B  
 MALATHI M SUNILKUMAR GOKULA ARUTHRA S MALAVIKA N  
 PRADIPAR KUMUTHAVALLI DIVYA G KATHIR D SIVANTH S K MADHAVAN K

\*For Admissions: Visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or Contact: 9940104881 / 9940104882

**PIC: ISTE EVENT POSTER**

St. Joseph's College of Engineering (Electrical & Electronics Engineering) “**St. JOSEPH'S ISTE STUDENT CHAPTER**” organized a technical event “**WARTECH**” on **10-03-2023**. This exclusive event started at **1.40 PM** with all the members of our club. The event was started with Tamil Thai Vazthu. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event.

STUDENTS NAME	YEAR	POSITION
KAILASH & PRAKASH	II	I
NERAIMATHI & MOGANA SRI	II	II
NANDHA & KARTHICK KUMAR	II	III

10.

**PLANOMAT**

For Registration:  
<http://surl.li/fiefj>

1:40PM TO 3:00PM  
**ON MARCH 7<sup>th</sup>**

**Certificates Will Be Provided for Winners**

**Chief Patron**  
 Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.  
 Chairman, St. Joseph's Group of Institutions

**Patrons**  
 Mrs. B. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions  
 Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering  
 Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

**Convenors**  
 Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering  
 Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering  
 Dr. G. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

**Coordinators**  
 Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs  
 Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs  
 Dr. T.D. Sudhakar M.E., Ph.D. Professor / EEE  
 Mr. R. Elanthirayan M.Tech., (Ph.D.) Assistant Professor / EEE



**Student Coordinators**  
 AMIRTHA VARSHINI M MUKUNTHASRI R ALFRED EINSTEIN G MALAVIKA N MADHAVAN K  
 MALATHI M SUNIL KUMAR M BHARATH RAJ ARUTHURA S Abinaya B

\*For Admissions: Visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or Contact: 9940104881 / 9940104882

**PIC: ISTE EVENT POSTER**




St. Joseph's College of Engineering (Electrical & Electronics Engineering) “**St. JOSEPH'S ISTE STUDENT CHAPTER**” organized a technical event “**PLANOMAT**” on **07-03-2023**. This exclusive event started at **1.40 PM** with all the members of our club. The event was started with **TAMIL THAI VAZHTHU**. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event.

STUDENTS NAME	YEAR	POSITION
VIJAYALAKSHMI & SHAMRUTHA	II	I
PRIYADHARSHINI & KANISHKA	II	II
KAVIN KUMAR & MONISH	II	III

<p>11.</p>	 <p style="text-align: center;"><b>PIC: BRIDGE certificate</b></p>	<p>Our Faculty Dr.Jayarama Pradeep for participating in the 50<sup>th</sup> edition of Bridge 2023- Chennai (A High Impact industry Institute Interaction Event of India) organized by ICT Academy held on 14 march 2023 at Chennai trade center, Chennai.</p>
<p>12.</p>		<p style="text-align: right;"><b>Criteria 1</b></p> <p>A patent titled “SMART AUTOMATIC BILLING SYSTEM FOR VEGETABLES AND FRUITS STORE USING IMAGE PROCESSING WITH CONTINUOUS POWER BACKUP” is published by Dr.G.Ravivarman, Dr.M.Vignesh, <b>Dr.M.Venmathi</b>, Dr. Dinesh Bhatia, Dr.Dheepanchakkravarthy A, Rameshwar Santosh Devhade on 30/12/2022.</p> <p>A patent titled “ AN INTELLIENT POWER MANAGEMENT TECHNIQUE FOR A SOLAR-WIND-BATTERY SYSTEM” is published by Natarajan Hariprasad, <b>Dr.T.V.Narmadha, Mr.A.Sadeesh Kumar, Mr.R.Elanthirayan, Mrs.C.Ramadevi, Mrs.R.G.Nirmala, Dr.M.Ramesh Babu, Mr.M.Chilambarasan</b> on 03/03/2023.</p>
<p>13.</p>	<p style="text-align: center;"><b>PLACEMENT DETAILS FOR THE MONTH OF MARCH 2023</b></p>	<p>Total No of students placed = 111 UG + 4 (PG) =115 Students  Total No of Offers = 173 + 4 (PG) = 177 Offers  Total No of Students (UG) = 160  Total No of Eligible Students (UG) = 144 (All Clear &amp; 1 arrear students)  Total No of Eligible Students (PG) = 06  % of students Placed (UG) = 111/144 = 77.09 %  % of students Placed (PG) = 04  % of students Placed (PG) = 04/06 = 66.66%</p>

		No of students having single offers = 70 + 04 (PG) No of students having Double offers = 28 No of students having Triple offers = 15 No of students having Quadruple offers = 02
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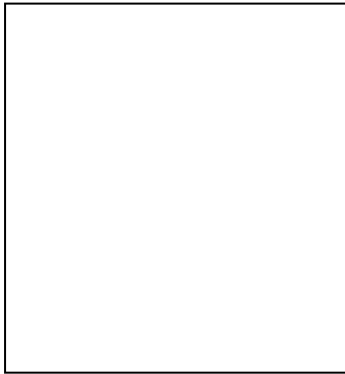
## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail					
<b>I</b>	<b>FDP Attended</b>	<b>S. No.</b>	<b>Faculty Name</b>	<b>FDP Organised</b>	<b>Conducting agency</b>	<b>Period</b>	<b>Link</b>
		1.	Dr.Gnanaprakasam C N	FDP on Electric Vehicle Drive System	Department of EEE, Jerusalem College of Engineering	27-2-2023 to 4-3-2023	
		2	Dr.Meena S	FDP on Electric Vehicle Drive System	Department of EEE, Jerusalem College of Engineering	27-2-2023 to 4-3-2023	
<b>II</b>	<b>Conference Publication</b>	<b>S.No</b>	<b>Name of the Authors</b>	<b>Title of the paper</b>	<b>Published Month and year</b>	<b>proof link</b>	
		1.	<b>Gnanaprakasam C N , N. Arockia Rosy, Vaishali Gajendra Shende,N.B. Prakash, P.V. Pramila, S.Ramesh</b>	ML-Based Intelligent Management and Prediction of Heart Disease	March 2023		

**DEPARTMENT OF INFORMATION TECHNOLOGY**

<b>Sl. No.</b>	<b>Photographs Captured During Event</b>	<b>Corresponding remarks in regarding the status of activity execution</b>
1	<div data-bbox="275 423 655 800" style="border: 1px solid black; height: 232px; width: 181px; margin-bottom: 10px;"></div> <p align="center"><b>Dr. V. Muthulakshmi</b> Published a paper in SCIE</p>	<p align="center"><b><u>Staff Paper Publication</u></b></p> <p><b>V. Muthulakshmi</b>, F.H. Shajin, J. Dhiviya Rose, P. Rajesh, “Generative Adversarial Networks Classifier Optimized with Water Strider Algorithm for Fake Tweets Detection”, IETE Journal of Research, <a href="https://doi.org/10.1080/03772063.2023.2172466">https://doi.org/10.1080/03772063.2023.2172466</a>, Publisher: Taylor and Francis, Print ISSN: 0377-2063, E ISSN: 0974-780X, pp.1-16, Mar 2023. <b>(Impact Factor: 2.333, Annexure I, SCI Expanded)</b></p> <p><b>Abstract:</b> In this manuscript, a deep learning-based Generative Adversarial Networks (GAN) classifier optimized with the Water Strider Optimization Algorithm (WSOA) is proposed to solve the issue of fake tweets in Twitter. Initially, input Twitter data is taken from the “Twitter API” dataset. Then, pre-processing is done in the Twitter dataset. After that, the pre-processed tweet features are selected based on the Bag of Words model, mutual information, and the Chi-square method. Then the selected features are given into the Generative Adversarial Networks classifier for detecting fake tweets. The experimental results show that the proposed FT-GAN-WSOA classifier provides higher accuracy of 25.14%, 25.21%, 20.44%, and 34.38% than the existing methods, such as fake tweet detection with content-based features using a custom rule-based algorithm (FT-CBF-CRBA) method, fake tweet detection with long/short-term memory using a random forest algorithm (FT-LSTM-RFA) method, fake tweet detection with zero-shot learning using bidirectional encoder representations from transformers (FT-ZSL-BERT) method, and fake tweet detection with a hybrid convolution neural network and recurrent neural network with long/short-term memory (FT-Hyb CNN-RNN-LSTM) method, respectively.</p>

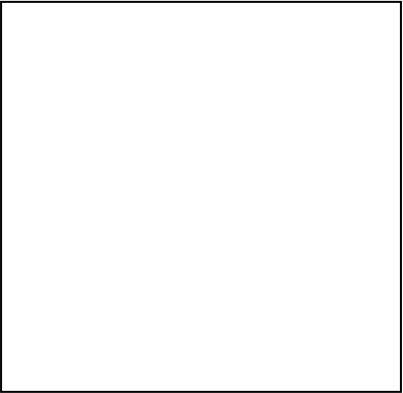





**Dr. S. Duraimurugan &  
Dr. G. Manikandan**  
Published a paper in SCIE

**S. Duraimurugan, R. Jayabharathi, G. Manikandan**, “An efficient congestion control in multimedia streaming using adaptive BBR and fuzzy butterfly optimization, Transactions on Emerging Telecommunications Technologies”, <https://doi.org/10.1002/ett.4707>, Publisher: Wiley, Print ISSN: 2161-3915, E ISSN: 2161-3915, Vol. 34, No. 3, p.e4707, Mar 2023. (**Impact Factor: 2.638, Annexure I, SCI Expanded**)

**Abstract:** In this article, an adaptive BBR technique is proposed for transmitting real-time video with minimum transmission delay and packet loss. The adaptive BBR mainly uses the pacing gain update mechanism to maintain different flow rates and minimal data in the bottleneck queue. Also, a fuzzy butterfly optimization (FBO) with a ranking strategy is proposed to attain optimal bandwidth allocation. The FBO algorithm with ranking strategy computes the minimal bandwidth needed by the model to satisfy the service requirement of every queue in a particular round. Then, the packet scheduling is done by employing an intelligent time slice-based round-robin (ITSBRR) technique. The ITSBRR algorithm is employed to enhance the throughput and end-to-end delay by implementing the time quantum-based scheduling mechanism. Finally, the experimental analysis is carried out for various parameters namely single path transmission delay, packet loss; frame delay is computed for various techniques to compute the efficiency of the proposed system.

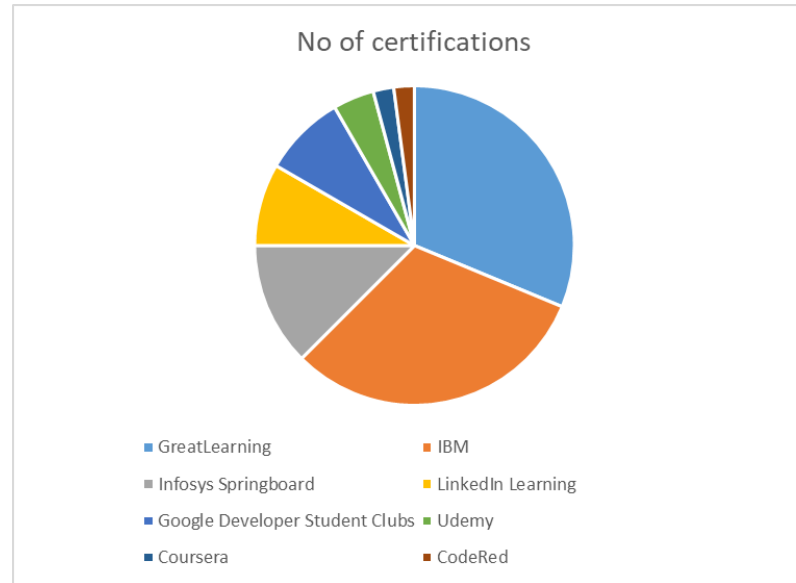
Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
3	 <p data-bbox="296 683 653 781"><b>Dr. L. Sherly Puspha Annabel</b> Published a paper in Scopus Indexed Conference</p>	<p data-bbox="1125 253 1577 277" style="text-align: center;"><b><u>Staff and Student Paper Publication</u></b></p> <p data-bbox="711 285 2003 415"><b>L. Sherly Puspha Annabel, G. Ramanan, R. Prakash, S. Sreenidhi</b>, “Machine Learning-Based Approach for Airfare Forecasting”, Proceedings of International Conference on Data Science and Applications, Lecture Notes in Networks and Systems, <a href="https://doi.org/10.1007/978-981-19-6634-7_65">https://doi.org/10.1007/978-981-19-6634-7_65</a>, Publisher: Springer, Print ISBN: 978-981-19-6633-0, Online ISBN: 978-981-19-6634-7, Mar 2023. (Indexed in Scopus)</p> <p data-bbox="711 423 2003 821"><b>Abstract:</b> Online purchases have become the major method of purchasing airline tickets due to the rapid expansion and widespread application of web technologies. Customers find it difficult to purchase tickets at a reduced cost due to the lack of information regarding pricing issues. Existing prediction methods that rely on tomorrow's price projection may be inaccurate, resulting in missed opportunities to purchase tickets in the future. Hence, our proposed system deals with the problem of calculating flight prices that keep changing dynamically due to a lot of factors such as time, season, duration, special events, climate change, etc. To reduce middle-agent cost and difficulties on the customer part, an easy-to-use prediction calculator that provides flight search and booking facilities all in just one-click is developed. The data analysis part of the proposed system is based on datasets collected from open-source platforms, and predicted values use Random Forest Regression as the model with the prediction accuracy being 79% for test data. The prediction model undergoes hyperparameter tuning and adaptive boosting to increase efficiency gaining an increase to 81% from the usage of the former and 85% for the latter.</p>
4	 <p data-bbox="331 1247 569 1312" style="text-align: center;"><b>Mrs.R.Shoba</b> published a patent</p>	<p data-bbox="1251 841 1461 865" style="text-align: center;"><b><u>Patent Published</u></b></p> <p data-bbox="732 873 1992 930"><b>Title of the invention : AI Based Detection of Cardiovascular Pathology of a Patient Through Retinal Scan</b></p> <p data-bbox="732 938 974 963"><b>Name of Inventor :</b></p> <ol data-bbox="732 971 1094 1304" style="list-style-type: none"> <li>1)Dr.Battula Tirumala Krishna</li> <li>2)Ms.Supriya Dubey</li> <li><b>3)Mrs.R.Shoba</b></li> <li>4)Dr.R.Selvi</li> <li>5)Mr.P.Sathish Kumar</li> <li>6)Ms.S.Jayachitra</li> <li>7)Mrs.C.Selvarathi</li> <li>8)Dr.D.Gouse Peera</li> <li>9)Mr.Addagatla Prashanth</li> <li>10)Mr.A.Venugopal Rao</li> </ol> <p data-bbox="732 1312 1146 1336"><b>Patent Number:</b> 202341011065 A</p> <p data-bbox="732 1344 1241 1369"><b>Date of filing of Application :</b> 18/02/2023</p> <p data-bbox="732 1377 1094 1401"><b>Publication Date:</b> 17/03/2023</p>





Sample certificate

### Online Certifications

48 online certifications have been obtained by our IT students from some of the reputed online course platforms.



# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	<p>A one Day Event on “challenges and opportunities in engineering”</p>  	<p><b>Date</b> : 10.3.23  <b>Venue</b> : Laurel hall  <b>Nature of Event</b> : Motivational talk  <b>Participants</b> : Engineering II year Students (CSE &amp; ADS)  <b>Organized by</b> : Department of CSE and ADS</p> <p><b>Objective:</b></p> <ul style="list-style-type: none"> <li>To create innovative solutions that can tackle pressing global issues, enhance technological advancements, and improve the quality of life for individuals and societies.</li> </ul> <p><b>Outcome:</b></p> <ul style="list-style-type: none"> <li>Engineers can pioneer breakthroughs in various fields, such as artificial intelligence, biotechnology, nanotechnology, and robotics. These advancements can revolutionize industries and improve overall productivity and efficiency. Developed a fully functioning personal blog.</li> <li>Addressing engineering challenges often requires international cooperation and collaboration. By working together across borders, engineers can pool resources and expertise to tackle complex global issues effectively.</li> </ul>



You Choose, We Do It

# St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. Joseph's Group of Institutions

Jeppiaar Educational Trust

OMR, Chennai - 119.



APRIL 2023

## DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event																										
1.	<p style="text-align: center;"><b>PUBLICATIONS(ONLY PUBLISHED) DETAILS</b></p> <div style="display: flex; align-items: center;"> <p>Department of Industrial Policy &amp; Promotion, Ministry of Commerce &amp; Industry, Government of India</p> </div> <p style="text-align: center;">(<a href="http://ipindia.nic.in/index.htm">http://ipindia.nic.in/index.htm</a>)</p> <div style="display: flex; align-items: center; justify-content: center;"> <p>INTELLECTUAL PROPERTY INDIA <small>PATENTS   DESIGNS   TRADE MARKS GEOGRAPHICAL INDICATIONS</small></p> </div> <p style="text-align: right; margin-right: 100px;">(<a href="http://ipindia.nic.in/index.htm">http://ipindia.nic.in/index.htm</a>)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Application Details</th> </tr> </thead> <tbody> <tr> <td>APPLICATION NUMBER</td> <td>202341023108</td> </tr> <tr> <td>APPLICATION TYPE</td> <td>ORDINARY APPLICATION</td> </tr> <tr> <td>DATE OF FILING</td> <td>29/03/2023</td> </tr> <tr> <td>APPLICANT NAME</td> <td>1 . Ms. YUWWARANNI .S 2 . MS. SRUTHI R 3 . MS. MADHU VARSHA S A 4 . DR. M. CHAMUDEESWARI</td> </tr> <tr> <td>TITLE OF INVENTION</td> <td>HEMOLYTIC NATURE OF GREEN SYNTHESIZED IRON NANOPARTICLES AGAINST MENSTRUAL BLOOD</td> </tr> <tr> <td>FIELD OF INVENTION</td> <td>BIO-MEDICAL ENGINEERING</td> </tr> <tr> <td>E-MAIL (As Per Record)</td> <td></td> </tr> <tr> <td>ADDITIONAL-EMAIL (As Per Record)</td> <td>yuwvarannis@stjosephs.ac.in</td> </tr> <tr> <td>E-MAIL (UPDATED Online)</td> <td></td> </tr> <tr> <td>PRIORITY DATE</td> <td></td> </tr> <tr> <td>REQUEST FOR EXAMINATION DATE</td> <td>29/03/2023</td> </tr> <tr> <td>PUBLICATION DATE (U/S 11A)</td> <td>21/04/2023</td> </tr> </tbody> </table>	Application Details		APPLICATION NUMBER	202341023108	APPLICATION TYPE	ORDINARY APPLICATION	DATE OF FILING	29/03/2023	APPLICANT NAME	1 . Ms. YUWWARANNI .S 2 . MS. SRUTHI R 3 . MS. MADHU VARSHA S A 4 . DR. M. CHAMUDEESWARI	TITLE OF INVENTION	HEMOLYTIC NATURE OF GREEN SYNTHESIZED IRON NANOPARTICLES AGAINST MENSTRUAL BLOOD	FIELD OF INVENTION	BIO-MEDICAL ENGINEERING	E-MAIL (As Per Record)		ADDITIONAL-EMAIL (As Per Record)	yuwvarannis@stjosephs.ac.in	E-MAIL (UPDATED Online)		PRIORITY DATE		REQUEST FOR EXAMINATION DATE	29/03/2023	PUBLICATION DATE (U/S 11A)	21/04/2023	<p><b>Dr.M.Chamundeeswari and Ms.S. Yuwvaranni</b> Published patent titled “Hemolytic nature of green synthesized iron nanoparticle against menstrual blood” dated 29.4.2023 (Application No: 202341023108)</p> <p><b>Dr.C.Karthik</b> received a certificate of excellence in reviewing from the Asian Journal of Research in botany</p> <p><b>Dr.C.Karthik</b> received a certificate of excellence in reviewing from the Asian Journal of Research in biochemistry</p>
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**Copy of patent published by Dr.M.Chamundeeswari and Ms.S. Yuwvaranni**



**Copy of certificate Dr.C.Karthik**

**Asian Journal of Research in Biochemistry**

(Indexing: Ebsco, Proquest, Index Copernicus, Google Scholar)

**2023**

Certificate No: SDI/HQ/PR/Cert/98929/DRC

**Certificate of Excellence in Reviewing**

awarded to

**Dr. C. Karthik**

**St. Joseph's College of Engineering, India**

*in recognition of an outstanding contribution to the quality of the journal.*

Date: 17-Apr-2023

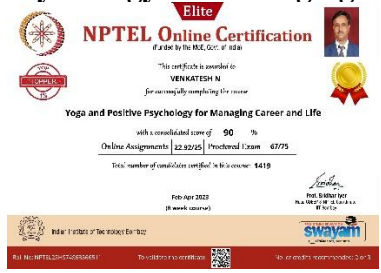




Dr. M Basumondal  
Chief Managing Editor

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India: Gaud House Road, Street no - 1/10, Sonagly, West Bengal, India, Tel: +91 962752298, 08, Third Floor, 207 Regent Street, London, W1B 3BH, UK, Fax: +44 20 3011 3429

**Copy of certificate Dr.C.Karthik**

# DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
	<b>VALUE ADDED COURSES</b>	<p>- <b>Dr. Venkatesh.N, Professor</b> has completed a NPTEL course on “<b>Yoga and Positive Psychology for Managing career and life</b>”</p>  <p>The certificate is awarded to <b>VENKATESH N</b> for successfully completing the course <b>Yoga and Positive Psychology for Managing Career and Life</b> with a consolidated score of <b>90 %</b>.  Online Assignments: <b>22.92/25</b>   Proctored Exam: <b>63/75</b>  Total number of candidates certified in this course: <b>1419</b>  Feb-Apr 2023 (16 week course)</p> <p>-<b>Dr.Sujatha.S, Assistant Professor</b>, has Completed a NPTEL Course on “<b>Biomass Conversion and Biorefinery</b> “</p>  <p>The certificate is awarded to <b>DR.SUJATHA S</b> for successfully completing the course <b>Biomass Conversion and Biorefinery</b> with a consolidated score of <b>61 %</b>.  Online Assignments: <b>16.66/25</b>   Proctored Exam: <b>48.83/75</b>  Total number of candidates certified in this course: <b>495</b>  Jan-Apr 2023 (16 week course)</p>
	<b>AWARDS/PRIZE WON BY STUDENTS</b>	<p>i. <b>Mrs. Ananya Munnangi</b>, IIIrd Year Chemical has been recognised as <b>NPTEL Discipline Star</b> award for the month of <b>Jan-April 2023</b>.</p>  <p><b>CERTIFICATE OF APPRECIATION TO ANANYA MUNNANGI</b> Chemical Engineering for being recognized as NPTEL DISCIPLINE STAR JAN-APR 2023</p>

	<b>PUBLICATIONS(ONLY PUBLISHED) DETAILS</b>	<p><b>-Mr.Anand Kumar, Assistant Professor</b>, along with <b>Mr.Mohamed Arshath.S, IVth year</b>, and <b>Mr.Sahaya Michael Hayden R , IIIrd Year</b>. Published a journal “<i>Generation of Bio-Hydrogen by Chemical Looping water splitting and Pyrolysis: Role of Catalyst and Recent Advancements</i>” on <b>Ethiopian Journal of Applied Science and Technology</b>.</p>
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


## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### 1. Publications:

The following staff members have published the research papers during April in Journal at International Level

S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Publication
1.	Shirley Selvan , K. Jaspin, Vaishali	CAD of Brain Abnormalities in MRI Imaging using Texture features	IconDeepCOM-2023	-	April 2023

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	Remarks
1.	    <p style="text-align: center;"><b>ATLAS FUTURE!</b> THEME: "POWERING CLIMATE A SAFER FUTURE!" AN ONLINE QUIZ CONTEST</p>   <p style="text-align: center;">Registration Link : <a href="https://bit.ly/regform-Atlasfuture">https://bit.ly/regform-Atlasfuture</a> Date: 16.04.2023 Mode : Online</p> <p style="text-align: center;">Merit E-certificates will be provided to the winners . participation certificates will be provided to all the participants</p> <p style="text-align: center;"><b>Staff Co-ordinator:</b> Mr.R.Sreekanth M.E., (Ph.D.) Assistant Professor</p> <p style="text-align: center;"><b>Student Co-ordinator:</b> Kanimozhi G</p> <p style="text-align: center;">      <a href="https://www.linkedin.com/company/ieeesjcesbc.org">/ieeesjcesbc.org</a>      <a href="https://www.linkedin.com/company/ieeesday">/ieeesday</a> </p> <p style="text-align: center;"><b>PIC: IEEE EVENT POSTER</b></p>	<p>The IEEE Power and Energy Society of St. Joseph's College of Engineering hosted a virtual "ATLAS FUTURE!" event. The event occurred on April 16, 2023 on the occasion of 6<sup>th</sup> IEEE PES DAY 2023 on the theme of "Powering a Climate Safer Future!" Participant's knowledge is tested during the quiz event. This event mainly focusses on the better climate for safer future. Winners are chosen based on the number of correct answers they provide. Winners and participants will receive E-certificates.</p>



2.



PIC: IEEE EVENT POSTER

Bookaholic was organized by IEEE SJCE SBC under IEEE Robotics and Automation Society for the college students. The event was conducted in Google form. It is a amazing quiz event Conducted for students to make them to know about books and its benefits, conducted on 29th april 2023. Over 18 students participated in it and are benefited. E-Certificates are distributed to the participants. Student Coordinators G.Aparnaa, R.Gokul Kumar,V.Rakshit Roshan,B.Santhosh ,N.Rupesh,T.Sujitha coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor."

3.



PIC: IEEE EVENT POSTER

The IEEE Power and Energy Society of St. Joseph's College of Engineering hosted a virtual webinar "WEBCAST" event. The event occurred on April 23, 2023 on google meet. The webinar's primary goals are to educate participants about the power and energy industries and to connect them with experts. "Electric vehicle charging infrastructure" is the subject of the webinar, which was presented by Mr P. Sivaraman M.E., a senior member of IEEE. The webinar is quite participatory and engrossing, and it concludes with a question-and-answer session.

4.



PIC: IEEE EVENT POSTER

The IEEE Power Electronics Society of St Joseph's College of Engineering hosted an event called “DFEPICTION”, a TECHNICAL EVENT. The event was conducted on 29.04.2023. In this event, participants were provided with a link of a google form in which an image is attached. The participants are instructed to identify the electronics items that are present in the image and are asked to brief the usage, working and applications of the identified electronics items. The winner is selected based on the best description. E-certificate were given to the winners and participants.

5.

The poster features the IEEE logo at the top left, followed by the text 'St. Joseph's College of Engineering Student Branch Chapter' and 'IEEE Women in Engineering Affinity Group'. The main title 'HEALTH FOR ALL' is in large purple letters, with 'A Networking Session' written below it in a cursive font. The theme is 'Eliminating health barriers for a better future'. A circular portrait of the speaker, Mr. Rajkumar Thangarajan, is on the left. To the right of the portrait, it says 'OUR SPEAKER: Mr. RAJKUMAR THANGARAJAN, M.D., D.M., Ph.D. Adjunct professor in IIT Madras & Director of Research- Oncology'. Below this, the date and time are 'FRIDAY | 28 APRIL 2023 | 6.00 PM (IST)'. The platform is 'GMEET'. At the bottom, the registration link is 'https://bit.ly/HealthForAll-Regform' and it states 'E- Certificates will be provided to all the participants'.

St. Joseph's IEEE Student Branch Chapter  
in association with  
IEEE Women in Engineering Affinity Group  
presents  
**HEALTH FOR ALL**  
*A Networking Session*  
**THEME: Eliminating health barriers for a better future**

**OUR SPEAKER:**  
**Mr. RAJKUMAR THANGARAJAN, M.D., D.M., Ph.D.**  
Adjunct professor in IIT Madras &  
Director of Research- Oncology  
**FRIDAY | 28 APRIL 2023 | 6.00 PM (IST)**  
**PLATFORM: GMEET**  
**REGISTRATION LINK : <https://bit.ly/HealthForAll-Regform>**  
E- Certificates will be provided to all the participants

**PIC: IEEE EVENT POSTER**

The “HEALTH FOR ALL” is a networking session conducted by IEEE WIE Affinity group St. Joseph’s College of Engineering on 28th April 2023. A total of 50 Participants attended the session. The Presenter Dr. Thangarajan Rajkumar, Adjunct professor in IIT Madras and Director of Research - Oncology, enthusiastically started the session with a note on awareness about the ill effects of using tobacco among the youngsters and answered all the questions posted from the participants . Also he discussed many unexplored aspects of breast cancer. Finally, he covered diets and fitness routines. The speaker receives an E-memento at the end of the webinar as a gratitude for sharing his perspective on cancer.

6.

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 OMR, Chennai - 119










**மின் மற்றும் மின்னணு பொறியியல் துறை**  
**உடன் இணைந்து**  
**IEEE SJCE SB மாணவர் மன்றம்**  
**பெருமையுடன் வழங்கும்**  
**பொது அறிவு**  
 ---அறிவை வளர்த்துக் கொள்ளும் போட்டி ---

**பதிவு செய்ய**  
  
[https://bit.ly/பொது\\_அறிவு](https://bit.ly/பொது_அறிவு)

  
**தேதி: 27.04.2023**  
**நேரம்: 7.00pm - 8.00pm**



**-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --**  
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**SBC Advisor**  
**Dr. Jayarama Pradeep** M.E., Ph.D.  
 Professor & Head - Staff Affairs  
**Staff Coordinator**  
**Mr. R. Sreekanth** M.E., (Ph.D.)  
 Assistant Professor

**Student Coordinators**  
 Deepika U | Jayavarshini M 3 | Abinaya Priya R A | Shiva D | Sunil Kumar M

\*For Admissions: visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or contact: +91 99401 04881 / +91 99401 04882.

**PIC: IEEE EVENT POSTER**

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a quiz event "பொது அறிவு" related to Tamil quiz competition on 27 April 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 25 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Aruthra, Aparnaa, Abinaya and the others were provided with participation certificates. The student coordinators for this event are Deepika U, Jayavarshini M J, Abinaya Priya R A, Shiva D Sunil Kumar M.



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மின் மற்றும் மின்னணு பொறியியல் துறை  
உடன் இணைந்து  
**IEEE SJCE SB மாணவர் மன்றம்**  
பெருமையுடன் வழங்கும்

**எண்ணத்தை எழுத்தாக்கு**  
---ஒரு கட்டுரை எழுதும் போட்டி---

பதிவு செய்ய





தேதி: 28.04.2023  
நேரம்: 6.00pm - 7.00pm



[https://bit.ly/எண்ணத்தை\\_எழுத்தாக்கு](https://bit.ly/எண்ணத்தை_எழுத்தாக்கு)

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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Dean (Academic), St. Joseph's College of Engineering

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**SBC Advisor**  
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Professor & Head, Staff Office  
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8.

IEEE PES Day 2023  
Powering a Climate Safer Future!

IEEE | St. Joseph's College of Engineering Student Branch Chapter

IEEE PES  
Power & Energy Society®

# GINGER GREEN.

THEME: "Powering Climate a Safer Future!"  
AN ONLINE PHOTOGRAPHY CONTEST

Registration Link: <https://bit.ly/Ginger-Green>  
Mode: Online  
Date : 22.04.2023

Merit E-certificates will be provided to the winners .  
participation certificates will be provided to all the participants

Staff Co-ordinator: Mr.R.Sreekanth M.E., (Ph.D.)  
Assistant Professor

Student Co-ordinator: Kanimozhi G

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PIC: IEEE EVENT POSTER

The IEEE Power and Energy Society of St. Joseph's College of Engineering hosted a virtual "GINGER GREEN" event. The event occurred on April 22, 2023 on the occasion of 6th IEEE PES DAY 2023 on the theme of "Powering a Climate Safer Future!" Participants vision through the theme was tested during the photography event. This event mainly focusses on the better climate for safer future. Winners are chosen based on the number of photos and relevant to theme they provide. Winners and participants will receive E-certificates.

9.

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29th Anniversary

NBA | ARHA | MAAC | NIRF | Cambridge

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
CONDUCTS

## QUIZ FEST

10<sup>th</sup> April to 15<sup>th</sup> April 2023

10<sup>th</sup> April - Physics Quiz  
11<sup>th</sup> April - Chemistry Quiz  
12<sup>th</sup> April - Space Science Quiz  
13<sup>th</sup> April - Sports Quiz  
14<sup>th</sup> April - Biology Quiz  
15<sup>th</sup> April - World Currency Quiz

Registration link : <https://forms.gle/URooBbNgdfAMJeoR9>

5 PM TO 6 PM

\*E-CERTIFICATES WILL BE PROVIDED FOR ALL PARTICIPANTS AND WINNERS

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Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions  
Dr. G. Sreekumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

Convenors  
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs  
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs

Staff Coordinator  
Mrs. S.Gomathi M.E., (Ph.D.) Assistant Professor

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The QUIZFEST EVENT was organized by the Department of Electrical and Electronics Engineering for 6 Days which was held from 10.04.2023 to 15.04.2023. X, XII Standard students and Diploma Students from various schools & Colleges took part in this event. Quiz on various topics like physics, Chemistry, Space science, Sports, Biology, World Currency Quiz enhance the knowledge of the students. Events like this help students to relax their mind and engage in useful activities that help students to get away from the negativity. Participation and Merit certificates were given to the participants.

PIC: SCHOOL EVENT POSTER

10.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
CONDUCTS

## HUSTLE WITH PUZZLES

3RD APRIL 2023 TO 7TH APRIL 2023

**3rd Apr - LOGISENSE**  
**4th Apr - RIDE WITH NUMBERS**  
**5th Apr - DIMENSENSE**  
**6th Apr - HUZ WITH REBUS**  
**7th Apr - MATHSTICKS**

*Exclusively For  
11th, 12th  
and Diploma  
Students*



**7 PM TO 8 PM** \*E-CERTIFICATES WILL BE PROVIDED FOR ALL PARTICIPANTS AND WINNERS

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Dean Academics, St. Joseph's College of Engineering

**Convenors**

**Dr. Jayarama Pradeep** M.E., Ph.D. **Dr. T.V. Narmadha** M.E., Ph.D.  
Professor & Head - Staff Affairs Professor & Head - Lab Affairs

**Staff Coordinator**  
**Mr. H. Umesh Prabhu** M.E., Ph.D. Assistant Professor

\*For Admissions: Visit [www.stjosephs.ac.in](http://www.stjosephs.ac.in) / [www.stjosephstechnology.ac.in](http://www.stjosephstechnology.ac.in) or Contact: 9940104881 / 9940104882

PIC: SCHOOL EVENT POSTER

The "HUSTLE WITH PUZZLES" EVENT was organized by Department of Electrical and Electronics Engineering for 5 Days which was held from 03.04.2023 to 07.04.2023. The target audience of the event were X, XII and diploma level students. Each day, an online puzzle was conducted on various topics which kindled the student's interest and enriched their mind with logical thinking and Analytical ability. The winners of each day's event were awarded with merit certificate and the participants too were encouraged with participant certificate.

11.



PIC: Award Certificate

Students as well as staff members from our department's following teams have finished the IGEN Green99 challenge V1.0 project, which is aligned with 50th Earth Day and #ACT4SDGs Phase I and Phase II to raise awareness of electrical energy conservation. They received the IGEN SDG action award G03 in appreciation for this.

**Student Name:**

SANTHOSH CHAKKARAVARTHY S

MANI SHA N

JESSE S

THIRUPPATHI S

MARIA SHIRLEY JOHN LM

PRIYANKA J

SRUTHI V M

SHRUDHURAG KRISHNA

KEERTHANA S

KARTHIK KUMAR

**Staff Name:**

Dr. M. Venmathi, Associate Professor

R.Elanthirayan, Assistant professor

Dr.P.Anabarasan, Assistant professor



12.



PIC: SCHOOL EVENT POSTER

The Photo Collage Competition was organized by Department of Electrical and Electronics Engineering for 6 Days which was held from 17.04.2023 to 22.04.2023. X, XII Standard students and Diploma Students from various schools & Colleges took part in this event. Collage and paper art are very important to students in this period because art helps them to develop their reasoning, creative, imaginative, and problem-solving skills. Doing art enhances their motor skills, hand, and eye coordination, and helps them to make cognitive advances such as learning proportions. Participation and Merit certificates was given to the participants.

13.

The following faculty members have completed the online NPTEL Certification Course during Jan to April 2023

Name of the Faculty	Name of the course
Mr.H.Umesh Prabhu	Micrprocessors and Interfacing
Mr.Sriananda Ganesh	Non-conventional Energy Sources
Mr.S.S.Harish	Outcome Based Pedagogic Principles For Effective Teaching
Mr.V.Balasubramanian	Mechatronics

14.



Our students SHYAM SUNDAR R S III year C Sec won the title of winners in the sport of " WEIGHT LIFTING " at SENIOR STATE LEVEL POWERLIFTING CHAMPIONSHIP held at TIRUNELVELI.

PIC: student with model

15.



PIC: Students group photo

Our students won the title of winners in the sport of "football" at the intercollegiate competition conducted on April 6, 2023, at Sri Venkateshwara College of Engineering.

NAME OF THE STUDENT	YEAR/SEC
Hameed Rahman MA	III / A
Shenith D	III / C
Harish Kumar	II / A
Jeyavarman BT	II / A
Vignesh M	IV / C

16.



**Criteria 1**

A patent titled "IMPROVING CYBER SECURITY BY IMPROVED PREDICTIVE POTENTIAL OF MACHINE LEARNING MODELS" is published by Dr.Senduru Srinivasulu, Dr.B.Jega Jothi, Dr. S. Mani, Krishna Kumar L, Aviral Srivastava, H. Prasad, Dr.S.N.Sangeethaa, Niranjana Rampraveesh Barnwal on 24/03/2023.

A patent titled "Credit Card Fraud Detection System Based on Artificial Intelligence (AI) Techniques through Machine Learning" is published by Shobana. G , Libi A, Venkata Gowtham Ramayanam, Maria Sahaya Diran D , Dr. Binu V P, Dr. Chidambararaj Natarajan, Dr.Sripriya Arunachalam, R.Vishalakshi on 05/05/2023.

A patent titled "ARTIFICIAL INTELLIGENCE (AI) BASED SIMULATION OF THREE PHASE MULTILEVEL INVERTER WITH FEWER SWITCH" is published by Dr S. Alagu, M .R.Sundarakumar, D Salangai Nayagi, M. Anitha, Dr Shantha Visalakshi U, Dr. W T Chembian, S. Karthick, Dr. S. Sivasakthi on 31/03/2023.







17.

**PLACEMENT DETAILS FOR THE MONTH OF APRIL 2023**

Total No of students placed = 111 UG + 4 (PG) =115 Students  
 Total No of Offers = 173 + 4 (PG) = 177 Offers  
 % of students Placed (UG) = 111/144 = 77.09 %  
 % of students Placed (PG) = 04/06 = 66.66%  
 No of students having single offers = 70 + 04 (PG)  
 No of students having Double offers = 28  
 No of students having Triple offers = 15  
 No of students having Quadruple offers = 02



## DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	<p><b>Paper Published:</b></p> <div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;"> <p>Process Safety and Environmental Protection</p> <p>Volume 172, April 2023, Pages 815-824</p> </div>  </div> <hr/> <p>Effective utilization of waste pork fat as a potential alternate fuel in CRDI research diesel engine – Waste reduction and consumption technique</p> <p>S. Madhu <sup>a</sup>, G.M. Lionus Leo <sup>b</sup>, P. Prathap <sup>c</sup>, Yuvarajan Devarajan <sup>d</sup>  , Ravikumar Jayabal <sup>e</sup>  </p>	<p>➤ Dr.G.M.Lionus Leo Published a paper on “<b>effective utilization of waste pork fat as a potential alternate fuel in CRDI research diesel engine-waste reduction and consumption technique</b>” ,<i>Process safety and Environmental Protection. Vol 172.</i></p>
2	<p>Workshop Organized:</p>	<p><b>DST And SERB</b> Sponsored three Days seminar on “<b>Adopting IOT for Manufacturing Sector: its Impact and applications</b>” was organized on 24<sup>th</sup> April to 26<sup>th</sup> April 2023.</p>

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OMR, Chennai - 119








**DEPARTMENT OF MECHANICAL ENGINEERING**

**Congratulations**

The Management, Principal, and Faculty members are pleased to congratulate the following Faculty members from the Department of Mechanical Engineering for receiving a financial grant of **Rs. 1, 00,000 (Rupees One Lakh)** from the **DST - Science and Engineering Research Board (SERB)** for organizing **three-days National seminar** as per the details mentioned below:-



**Department of Science and Technology  
(DST)**


**Science and Engineering Research Board  
(SERB)**

<b>Title of the seminar</b>	<b>ADOPTING IoT FOR MANUFACTURING SECTOR:ITS IMPACT AND APPLICATIONS</b>
<b>Convener</b>	<b>Dr. K. M. Kumar, Associate Professor</b>
<b>Coordinator</b>	<b>Dr. R. Selvam, Associate Professor</b>
<b>Grant Received</b>	<b>Rs. 1, 00, 000 (Rupees One Lakh)</b>
<b>Duration</b>	<b>24-Apr-2023 to 26-Apr-2023 (3 Days)</b>

**CHAIRMAN**

Financial grant Rupees 1,00,000 was granted for conducting the event. The seminar showed overwhelming response from the faculties of various engineering colleges.

## DEPARTMENT OF MBA

<b>FACULTY PUBLICATION:</b>	Dr. Angelin S.Kiruba has published a paper on “Emerging Patterns of e-Commerce apparel Attributes: A Bibliometric Analysis” in Quality Access to Success” Vol.24. No.194 / April 2023.
<b>WORKSHOP/FDP/STTP/CONFERENCE / SEMINAR ATTENDED BY FACULTY:</b>  	Dr.Ajit S has completed the NPTEL Course on Marketing Analytics during Jan –April 2023.

## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
4	FDP/Workshop/Conference	<i>Presented</i> 1. Dr. N.R. Rajagopalan presented a paper , titled “An analysis in the identification of secondary RNA structure using energy algorithm” in the “International Conference on recent trends in Data Science and its applications” conducted by SRM University, Kattankulathur, held between 30.03.2023 and 31.03.2023.

		<p><b>Attended</b></p> <p>1. Dr. S. Kiruba, Dr. S. Suresh, Dr. A. Mahalakshmi, Dr. S. Rama, Mr.S. Kaleel Mohamed Ibrahim, Dr. G. Murugan, Dr. V. Swarnalatha, Dr. P. Saravanan, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Ms. S. Savitha, Dr. B. Subash, Dr. S.M. Prakash, Dr. G. Sasikumar, Dr. A.L. Ajeesha, attended 10 Days International Faculty Development Program on “Advanced Materials for Technological Applications” conducted by “Sathyabama University, Chennai” held between 24.03.23 and 04.04.23.</p> <p>2. Dr. A. Mahalakshmi attended a National webinar on “Next generation Energy Storage Devices” conducted by “Rajalakshmi Institute of Technology, Chennai” on 27.04.23.</p> <p>3. Dr. N. Punitha attended an International conference on “Immunfest23” conducted by “PRIST University, Thanjavur” on 28.4.23</p>
9	Awards/Prize won by students / Staff	<p>Reviewers:</p> <p>Dr. K. Jayamoorthy has acted as reviewer for the following reputed journals.</p> <ol style="list-style-type: none"> <li>1. Arabian Journal of Chemistry – April 2023</li> <li>2. Current Organic Chemistry – April 2023</li> <li>3. Journal of Biomolecular Structure &amp; Dynamics – April 2023</li> <li>4. Brazilian Journal of Biology – April 2023</li> <li>5. Vietnam Journal of Science, Technology and Engineering – April 2023</li> </ol>
11	Publications(only published) details	<p>Ms. J. Sharmila, Dr. S. Suresh, Dr. P. Saravanan published a paper titled “Photocatalytic degradation of reactive dyes using natural photo-smart pigment - A Novel approach to waste water re-usability” in the Springer journal “Environmental Science and Pollution Research” <a href="https://doi.org/10.1007/s11356-023-27360-z">https://doi.org/10.1007/s11356-023-27360-z</a></p>





## DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	Publications (only published) details	<ul style="list-style-type: none"> <li>• <b>Dr.S.Thenmozhi</b> has published a paper titled “Replacement of coarse aggregates by industrial slag” in Materials Today Proceedings, April 2023. (Scopus Indexed)</li> </ul>



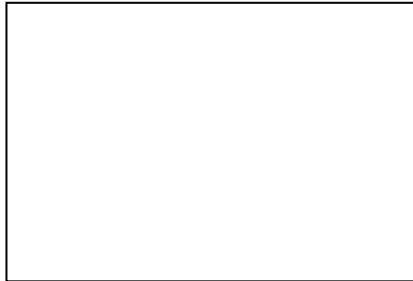
		<ul style="list-style-type: none"> <li>• <b>Dr.S.Thenmozhi</b> has published a paper titled “Seismic analysis of RC building (G+9) by response spectrum method” in Materials Today Proceedings, April 2023. (Scopus Indexed)</li> </ul>
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## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail					
<b>I</b>	<b>FDP Attended</b>	<b>S. No.</b>	<b>Faculty Name</b>	<b>FDP Organised</b>	<b>Conducting agency</b>	<b>Period</b>	<b>Proof</b>
		1.	Dr.R.Sivakumar	Introduction to Machine Learning	NPTEL	Jan-April 2023 (12Weeks)	
		2.	Dr.C.N.Gnanaprakasam	Air Pollution and Control	NPTEL	Jan-April 2023 (12Weeks)	
		3.	Mr.B.Senthil Kumar	Applied Time Series Analysis	NPTEL	Jan-April 2023 (12Weeks)	
		4.	Mr.D. Sankaran	Air Pollution and Control	NPTEL	Jan 23-Apr 23 (12Weeks)	

**DEPARTMENT OF INFORMATION TECHNOLOGY**

<b>Sl. No.</b>	<b>Photographs Captured During Event</b>	<b>Corresponding remarks in regarding the status of activity execution</b>
1	<div data-bbox="268 444 667 727" style="border: 1px solid black; width: 100%; height: 100%;"></div> <p align="center"><b>Co-author:</b> <b>Dr. D. Logeshwari</b> Published a paper in Scopus Indexed Conference</p>	<p align="center"><b><u>Staff Paper Publication</u></b></p> <p>A. G. Devi, A. Thota, G. Nithya, S. Majji, A. Gopatoti and <b>D. Logeshwari</b>, "Advancement of Digital Image Steganography using Deep Convolutional Neural Networks," 2022 International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), Bengaluru, India, Publisher: IEEE, E ISBN:978-1-6654-5687-6, Print ISBN: 978-1-6654-5688-3, pp. 250-254, doi: 10.1109/IIHC55949.2022.10060230, 2022. (Indexed in Scopus)</p> <p><b>Abstract:</b> Steganography can be used to hide information in these and other formats. First, the Robust Multitier Spatial Domain Secured Color Image Steganography in Server Environment (MSS-SE) approach is created as part of an effort to lower the possibility of compromising confidential communications. MSS-SE steganography methods, rather than transmitting the original picture from the server, send a randomized mix of a cover image and a confused image from the same server. This is done in place of delivering the original image. A unique approach that is based on deep hierarchical spectral spatial feature fusion has been developed by us in order to improve the classification of HSIs (DHSSFF). The pooling method, which is considered by CNN to be one of the most important regularization procedures, has been the primary focus of our attention prior to the construction of the model. Following an examination of the relevant published material, we have reached the conclusion that a wide variety of pooling algorithms have been applied to carry out fruitful analyses of remote sensing data.</p>



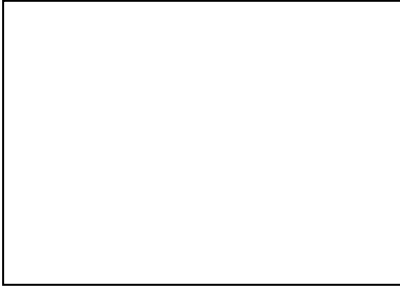

**Co-author:**  
**Dr. D. Logeshwari**  
Published a paper in  
Scopus Indexed  
Conference

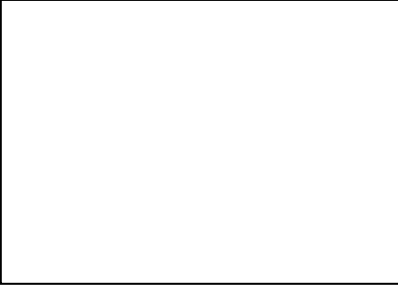

**Staff Paper Publication**

N. Tyagi, **D. Logeshwari**, M. S. A. Ansari, B. Pant, D. K. J. B. Saini and J. A. Dhanraj, "Skin Cancer Prediction using Machine Learning and Neural Networks," 2022 5th International Conference on Contemporary Computing and Informatics (IC3I), Uttar Pradesh, India, Publisher: IEEE, E ISBN:979-8-3503-9826-7, Print ISBN:979-8-3503-9827-4, pp. 271-275, doi: 10.1109/IC3I56241.2022.10073141, 2022.

**(Indexed in Scopus)**

**Abstract:** A deep learning (DL) system for identifying skin cancer is presented in this paper. The rapid development rate of melanoma skin cancer, its massive price of surgery, and its mortality rate have all heightened the need for timely diagnosis of skin disease. Most of the time, treating cancer cells requires time and careful detection. The commitment to deep learning powered by machine learning (ML) has been repeatedly shown in the medical sector. Skin cancer categorization has benefited significantly from growing study attention since it is amenable to visual pattern recognition. Studies have revealed that DL-based image classifications may be utilised to enhance skin cancer diagnosis or are on par with or even outperform human specialists. In this study, we provide a deep learning architecture that can identify skin cancer. Five state-of-the-art convolutional neural networks were trained using transfer learning to provide a simple classifier and a hierarchical (with two stages) classification that can differentiate between seven different species of moles. Experiments were conducted using data from the HAM10000 database, a huge collection of dermatoscopic pictures, with the use of data augmentation methods to boost results. The DenseNet201 network performed well in this experiment, as seen by the high classification accuracies and F-measures achieved with very few false negatives.

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
3	 <p data-bbox="331 688 569 846"><b>Co-author: Dr. A. Tamizhselvi</b> Published a paper in Scopus Indexed Conference</p>	<p data-bbox="1205 331 1499 358" style="text-align: center;"><b><u>Staff Paper Publication</u></b></p> <p data-bbox="709 367 1992 524">M. Lourens, <b>A. Tamizhselvi</b>, B. Goswami, J. Alanya-Beltran, M. Aarif and D. Gangodkar, "Database Management Difficulties in the Internet of Things," 2022 5<sup>th</sup> International Conference on Contemporary Computing and Informatics (IC3I), Uttar Pradesh, India, Publisher: IEEE, E ISBN: 979-8-3503-9826-7, Print ISBN:979-8-3503-9827-4, pp. 322-326, doi: 10.1109/IC3I56241.2022.10072614, 2022. <b>(Indexed in Scopus)</b></p> <p data-bbox="709 532 1992 992"><b>Abstract:</b> The “Internet of Things (IoT)” is an internet protocol for which real-world, virtual as well as digital objects are given recognition, detecting, connectivity, and process technology so they can interact with one another and other Internet-connected devices and services to carry out users’ tasks. There are many IoT solutions available to improve and comfort civilian lives. Additionally, the use of IoT technology in the automotive sector gave rise to the concept of the “Industrial Internet of Things (IIoT),” which has simplified the usage of Cyber Physic Systems, which enable machine and human communication. In general, the variety, heterogeneity, and vast volume of data produced by these businesses make the use of traditional database management systems inappropriate. While constructing IoT data management systems, a number of special issues should be taken into account. These varied guiding notions have led to the proposal of range Of iot data management strategies. The Internet of Things will undoubtedly become a realization as more gadgets are linked to the Internet. Massive amounts of information will be instantiated by items in environment. A high rate and numerous increments will be made to its quantity. This research paper has highlighted database management and its challenges in IoT technology through secondary qualitative analysis.</p>
4	 <p data-bbox="312 1349 604 1479"><b>Ms. M. Nivethitha Devi</b> Published a paper in Scopus Indexed Conference</p>	<p data-bbox="1205 1006 1499 1034" style="text-align: center;"><b><u>Staff Paper Publication</u></b></p> <p data-bbox="709 1042 1992 1239"><b>M. Nivethitha Devi</b>, V. Parimala, Chirag Vibhakar, B. Siranthini, Mallaiah Balaganur; C.V. Vijay Kumar, "A Current Control Scheme for a Bi-Directional AC-DC Power Converter with Power Factor Correction by Using FLC for DC Micro Grid," 2022 International Conference on Knowledge Engineering and Communication Systems (ICKES), Chickballapur, India, Publisher: Springer, E ISBN:978-1-6654-5637-1, Print ISBN:978-1-6654-5638-8, pp. 1-6, doi: 10.1109/ICKECS56523.2022.10060082, 2022. <b>(Indexed in Scopus)</b></p> <p data-bbox="709 1279 1992 1476"><b>Abstract:</b> Secondary controllers for hydrothermal multisource hydraulic systems (MSHS) have been built in this chapter using PDICs and FLCs. Two control areas are linked by a tie line, and each control area includes both hydroelectric and thermoelectric energy systems. Conventional controllers are unable to manage the frequency and power oscillations caused by a load that changes with time and load. A proportionally dual integral controller and a fuzzy logic controller have been designed to stabilize the switching frequency and enhance the dynamic characteristics of a multi-area, multi-source hydro thermal system.</p>

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
5	 <p style="text-align: center;"><b>Co-author: Dr. C. Heltin Genitha</b> Published a paper in SCIE Journal</p>	<p style="text-align: center;"><b><u>Staff Paper Publication</u></b></p> <p>V. Nirmala, S. Leninisha, <b>C. Heltin Genitha</b> and S. Kumar, “Automated Breast Boundary Segmentation to Improve the Accuracy of Identifying Abnormalities in Breast Thermograms”, IETE Journal of Research, Publisher: Taylor and Francis, Print ISSN: 0377-2063, E ISSN: 0974-780X, <a href="https://doi.org/10.1080/03772063.2023.2194277">https://doi.org/10.1080/03772063.2023.2194277</a>, pp. 1-10, 2023. <b>(Impact Factor: 2.33, Annexure I, SCI Expanded)</b></p> <p><b>Abstract:</b> Breast thermography is a non-invasive, painless, affordable, and safer method of detecting breast abnormalities. Thermal imaging techniques used for detecting breast anomalies rely on precise breast boundary segmentation. However, the segmentation accuracy of the breast boundary region is affected by unclear boundaries, a low signal-to-noise ratio, and poor contrast of the thermal images. To mitigate this, this paper proposes a novel Distance-based Metrics and High-Temperature Region-based Adaptive Thresholding (DM-HTRAT) method for breast boundary region segmentation and dissecting left and right breasts precisely. In the first section, the Upper Region Boundary (URB) and the intersection point of the breast are segmented using the Distance-based Metrics (DM) method. In the second section, a High-Temperature Region-based Adaptive Thresholding (HTRAT) method is used to segment the Lower Region Boundary (LRB). The result of the segmentation is analysed both quantitatively and qualitatively, also it is compared with the state-of-the-art methods.</p>
6	 <p style="text-align: center;"><b>Ms. Kripa Sekaran et al,</b> <b>published a paper in</b> <b>Scopus Indexed</b> <b>Conference</b></p>	<p style="text-align: center;"><b><u>Student and Staff Publication</u></b></p> <p><b>V. Varsha, R. Shree Kriti, and Kripa Sekaran</b>, “Water Potability Prediction on Crops Considering pH, Chloramine, and Lead Content Using Support Vector Machine”, International Conference on Data Analytics and Management, Publisher: Springer, Lecture Notes in Networks and Systems, <a href="https://doi.org/10.1007/978-981-19-7615-5_50">https://doi.org/10.1007/978-981-19-7615-5_50</a>, Print ISBN: 978-981-19-7614-8, E ISBN978-981-19-7615-5, Vol. 572, pp. 609–620, 2023. <b>(Indexed in Scopus)</b></p> <p><b>Abstract:</b> The agricultural field has seen so many improvements with the advancements in technology. The demands on yield are constantly increasing. It is important to maintain some specifications of the irrigation water based on some parameters so that the water continues to be suitable for the purpose of irrigation. Manually checking out every sample of water and recommending approval is arduous and risky. By examining these points, a model is proposed that uses the support vector machine technique to predict whether the water sample is potable for irrigation or not by considering the chloramine and lead content of the water sample collected along with its pH. These variables are selected using the Gini index for identifying the best features that can be chosen for classifying the data points. The collected dataset is analyzed, and the outliers are removed by visualization using boxplot and violin plot. Based on the accuracy of the model, it can be deduced that whether a particular water sample is acceptable for the purpose of irrigation or not.</p>



7



**Dr. V. Muthulakshmi has been Granted with a UK patent**

**Patent Published**

**Title of the invention :** IOT based Wearable Medical Monitoring Device (**UK Patent**)

**Name of Inventor :**

1. Dr. Pushendra Kumar Verma
2. Dr. Saranya Govinda Kumar
3. Dr. Brijesh Sathian
4. Dr. Ramesh Sundar
5. Dr Rajalakshmi Murugesan
- 6. Dr. Muthulakshmi Venkatesan**
7. Dr. Popuri Gopi Krishna
8. Dr. Priya Lakshmipathy

**Design number:** 6274670

**Registration date:** 08 April 2023

**Grant date:** 20 April 2023

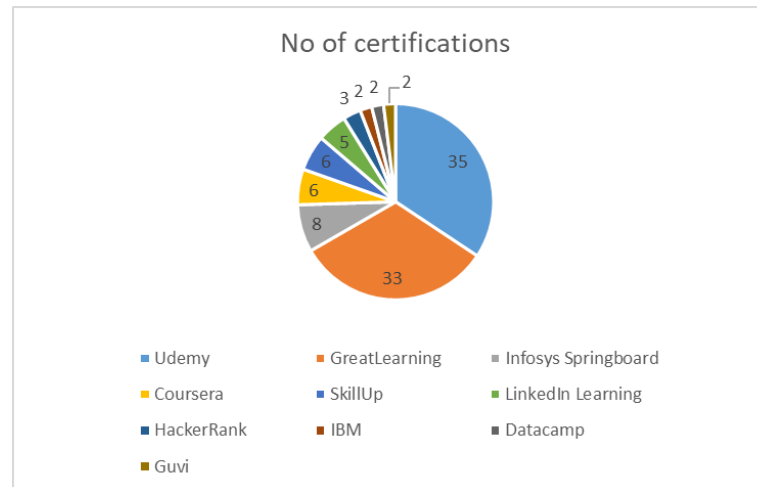
8



Sample certificate

**Online Certifications**

**102 online certifications have been obtained by our IT students from some of the reputed online course platforms.**







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## MAY 2023

### DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p><b>FDP/WORKSHOP/CONFERENCE</b></p> <p><b>Copy of certificate Dr.C.Karthik</b></p>	<p><b>Dr.C.Karthik</b> attended a FDP on Exploring dynamics of national education policy 2020 with reference to NAAC perspectives from 12-18<sup>th</sup> May 2023 conducted by Parul university Gujarat</p> <p><b>Ms.D.G. Caroline</b> attended a FDP on Exploring dynamics of national education policy 2020 with reference to NAAC perspectives from 12-18<sup>th</sup> May 2023 conducted by Parul university Gujarat</p>



Copy of certificate Ms.D.G.Caroline

2.

**PUBLICATIONS(ONLY PUBLISHED) DETAILS**

**Dr. Chamundeeswari Munusamy** published a paper on\*, 'Photocatalytic degradation of reactive dyes using natural photo-smart pigment—A novel approach for waste water re-usability', Environmental Science and Pollution Research (2023). Impact Factor : 5.190

**Dr.C.Karthik** received a certificate of excellence in reviewing from the International journal of biochemistry research and review

**Ms. Yuwvaranni**, Published paper titled "Banana Blossom based green synthesis and characterization of Copper oxide nanoparticle" in Journal of Applied Physics A Material science and Processing, May 2023, 129:448, Pg 1-7, IF 2.98.



## Photocatalytic degradation of reactive dyes using natural photo-smart pigment—A novel approach for waste water re-usability

Sharmila Jayaraja<sup>1</sup> · Saravanan Palanivel<sup>1</sup> · Suresh Sathyanathan<sup>2</sup> · Chamundeeswari Munusamy<sup>3</sup>

Received: 23 August 2022 / Accepted: 26 April 2023

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### Abstract

The present study is aimed at an efficient photocatalytic degradation of industrially important reactive dyes using phyco-cyanin extract as a photocatalyst. The percentage of dye degradation was evidenced by a UV–visible spectrophotometer and FT-IR analysis. The degraded water was checked for its complete degradation by varying pH from 3 to 12. Furthermore, the degraded water was also analyzed for water quality parameters and was found to meet industrial wastewater standards. The calculated irrigation parameters like magnesium hazard ratio, soluble sodium percentage, and Kelly's ratio of degraded water were within the permissible limits, which enables its reusability in irrigation, aquaculture, as industrial coolants, and domestic applications. The calculated correlation matrix shows that the metal influences various macro-, micro-, and non-essential elements. These results suggest that the non-essential element lead can be effectively reduced by increasing all the other micronutrients and macronutrients under study except sodium metal.

**Keywords** *Spirulina platensis* · Reactive dyes · Phycocyanin extract · Photocatalyst · Photodegradation

### Abbreviations

C Control  
D Dye  
R Reactive dyes  
RR Reactive red  
RM Reactive mixture  
smf Standard measuring flask  
P Phycocyanin extract  
Sp *Spirulina platensis*

### Introduction

Textile industries, one among the oldest manufacturing industries that spread all over the world, are a boon for the global economic development of many countries such as the USA, China, UK, and India, which have marked tremendous changes and growth only after the discovery of reactive dyes (R) (Moyo et al. 2022; Olukanni et al. 2010). Textile industries use many of the dyes such as azo, reactive, and anthraquinone dyes, among which reactive dyes are the commonly used dyes in dyeing and printing process. Reactive dyes (R) are a group of anionic dyes with reactive groups capable of reacting efficiently and chemically with fabrics through strong covalent linkages. Moreover, reactive dyes are found to have an excellent and enhanced properties such as water solubility, imparting brightness and different colors to fabrics at moderate cost, ease of application, and good wash tendency (Khatri et al. 2015; Tang and Kan 2020). Many varieties of R such as reactive red, reactive blue, reactive yellow, and reactive orange are being commonly used in industries to give vibrant shades to fabrics. It was estimated that more than one lakh of different varieties of dyes are continuously used in industries based on their reactive chromophore and auxochrome functional groups. These dyes after its phase of significant role in many of the industries are continuously discharged after being untreated

Responsible Editor: Saeid Rtimi

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Springer

Copy of published paper by Dr.M.Chamundeeswari





**Copy of certificate Dr.C.Karthik**



## Banana blossom-based green synthesis and characterization of copper oxide nanoparticle

A. H. Anchani<sup>1</sup> · S. Yuwvaranni<sup>1</sup> · A. H. Abishini<sup>1</sup>

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### Abstract

Copper oxide nanoparticles manifest a greater attention due to their excellent catalytic properties. The chemical synthesis of copper oxide nanoparticles is highly toxic and risky and may lead to polluting the environment. The other methods for the synthesis of nanoparticles are expensive and hazardous to the nature. The environmentally friendly method or green synthesis of copper oxide with plant products has been used as a reducing agent. In this research, the flower extract of *Musa paradisiaca* was used to reduce the copper oxide from the precursors via the green reduction. The optical characterization of the biosynthesized copper oxide nanoparticles was done by an ultraviolet-visible spectrophotometer showing the presence of copper oxide. The UV-visible peak was ~250 nm for the synthesized copper oxide nanoparticles. The Fourier transform-infrared spectroscopy was performed to find the functional groups present in the sample. X-ray diffraction spectroscopy was carried out to confirm the crystalline nature. The morphology of the synthesized copper oxide nanoparticles was analyzed using transmission electron microscopy along with energy-dispersive X-ray analysis. The potential application of the produced nanoparticle in photocatalytic dye degradation of Coomassie Brilliant Blue G-250 dye was demonstrated.

**Keywords** Green reduction · Copper oxide nanoparticle · *Musa paradisiaca* · Optical measurement · Nanoscale imaging

**Copy of paper published by Ms.Yuwvaranni**

3.

**STAFF CONFERENCE PRESENTATION**

Ms.K.R.Preethy presented a paper on “Value added conversion of biowaste of *Setaria Italica* to green nanocomposite for wound healing application” conducted by ISARC



## CERTIFICATE

of participant

This is to certify that

**Asst. Prof. Dr. Preethy K. R.**

*In oral and technical presentation, recognition and appreciation of research contributions to*

5.INTERNATIONAL GÖBEKLİTEPE SCIENTIFIC STUDIES CONGRESS

06-07 MAY 2023/ ŞANLIURFA

*with the paper entitle*


*‘ Value-Added Conversion Of Bio-Waste Of Setaria Italica To Green Nanocomposite For Wound Healing Applications ‘*

Uzm. Yasemin AĞAOĞLU  
Head Of Congress Group


  
Sefa Salih BİLDİRİCİ  
HEAD OF ISARC

**Copy of certificate Ms.K.R.Preethy**

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	<p><b>A Two Day Interanational Conference on Advances in Computing, Communication and Applied Informatics (ACCAI 2023)</b></p> 	<p><b>Date</b> : 25.5.23 and 26.5.23  <b>Venue</b> : Library AV Hall  <b>Nature of Event</b> : International Conference  <b>Participants</b> : Various deligates across the globe.  <b>Organized by</b> : IEEE Madras Section</p> <p><b>Objective:</b></p> <ul style="list-style-type: none"> <li>To facilitate the exchange of knowledge, foster collaboration among researchers, and promote the dissemination of research findings and innovative ideas..</li> </ul> <p><b>Outcome:</b></p> <ul style="list-style-type: none"> <li><b>Knowledge advancement:</b> Participants gain new knowledge, insights, and perspectives through presentations, discussions, and workshops, contributing to the advancement of knowledge in their respective fields.</li> <li><b>Networking and collaboration:</b> Attendees establish professional connections, foster collaborations, and build partnerships that can lead to joint research projects, academic collaborations, and future endeavors.</li> <li><b>Skill development and professional growth:</b> International conferences include workshops, tutorials, and training sessions conducted by experts from various fields. Participants acquired new skills, learned about emerging methodologies and technologies, and gain insights into best practices, thereby supporting their professional development and growth.</li> </ul>

# DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	<p><b>Paper Published:</b></p> 	<ul style="list-style-type: none"> <li>➤ M.Ganesh published a paper on “<b>Development and potential use of MWCNT suspended in vegetable oil as a cutting fluid in machining of Monel 400</b>” in <i>Journal of Molecular Liquids</i>, Vol. 382, IF;6.633</li> <li>➤ N.E.Arun Kumar, M.Ganesh &amp; R.Elakkiyadasn published a paper on “<b>Effect of Cryo-treatment of wires on machining performance of WEDM</b>” in <i>Materials and manufacturing Processes</i>, <a href="https://www.tandfonline.com/doi/full/10.1080/10426914.2023.2217897">https://www.tandfonline.com/doi/full/10.1080/10426914.2023.2217897</a> IF:4.463</li> <li>➤ N.Arunkumar, M,Ganesh,N.E.Arun kumar &amp; R.Sathish published a paper on “<b>Investigation of surface grinding on Inconel under distinct cooling conditions</b>” in <i>Materials and manufacturing Processes</i>, <a href="https://doi.org/10.1080/10426914.2023.2217896">https://doi.org/10.1080/10426914.2023.2217896</a> IF:4.463</li> </ul>
2	<p><b>Seminar Organized:</b></p>	<ul style="list-style-type: none"> <li>➤ DST And SERB Sponsored two Days workshop on “<b>Progress in Research on Armored Fire Retardant Hybrid Composite</b>” was organized on 22<sup>nd</sup> May to 23<sup>rd</sup> May 2023.</li> <li>➤ Financial grant of Rupees 80,000 was granted for conducting the event. The seminar showed overwhelming response from the faculties of various engineering colleges.</li> </ul>




**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 (An Autonomous Institution)  
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**DEPARTMENT OF MECHANICAL ENGINEERING**


**Congratulations**


The Management, Principal, and Faculty members are pleased to congratulate the following Faculty members from the Department of Mechanical Engineering for receiving a financial grant of **Rs. 80,000 (Rupees Eighty Thousand)** from the **DST - Science and Engineering Research Board (SERB)** for organizing **Two-days National Workshop** as per the details mentioned below:-

	<b>Department of Science and Technology (DST)</b> <b>Science and Engineering Research Board (SERB)</b>
<b>Title of the Workshop</b>	<b>PROGRESS IN RESEARCH ON ARMORED FIRE RETARDANT HYBRID COMPOSITE</b>
<b>Convener</b>	<b>Dr. R. Selvam, Associate Professor</b>
<b>Coordinators</b>	<b>Dr. K. M. Kumar, Associate Professor</b> <b>Dr. L. Balamurugan, Associate Professor</b>
<b>Grant Received</b>	<b>Rs. 80, 000 (Rupees Eighty Thousand)</b>
<b>Duration</b>	<b>22-May-2023 to 23-May-2023 (2 Days)</b>

**CHAIRMAN**

3 NPTEL Course:


**NPTEL Online Certification**  
 (Funded by the MoE, Govt. of India)




This certificate is awarded to  
**R GEORGE SAHAYA NIXON**  
 for successfully completing the course

**Fundamentals of Automotive Systems**


with a consolidated score of **54** %


Online Assignments	23.69/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 1088

  
**Prof. Devendra Jalihal**  
Chairperson,  
Centre for Distance and Digital Education, IITM

Jan-Apr 2023  
(12 week course)

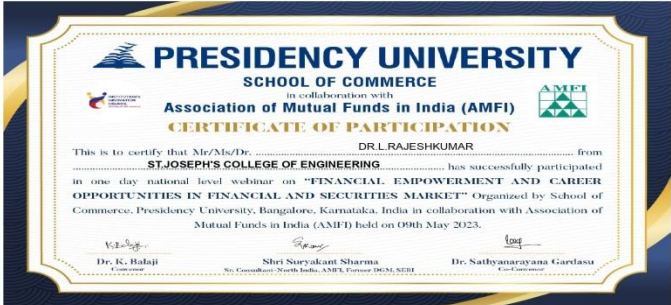
  
**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras

Roll No: NPTEL23DE01S43367147
To validate the certificate 
No. of credits recommended: 3 or 4

➤ **Dr.R.George Sahaya Nixon** completed 12 week course on “**Fundamentals of Automotive Systems**” during the period of Jan- April 2023 and completed successfully.

## DEPARTMENT OF MBA

<b>FACULTY PUBLICATION:</b>	Dr.K. Jawaharrani, Dr.RS. Lekshmi published paper on “Hardcore culture and Ergophobia of employees in chemical industry” in European Chemical Bulletin, 2023, 12 (S2), 2497-2508.
<b>WORKSHOP/FDP/STTP/CONFERENCE / SEMINAR ATTENDED BY FACULTY:</b>  	Dr.L. Rajeshkumar has participated in national level FDP on Financial Empowerment and career opportunities in Financial and Securities Market” organised by Presidency University, Bangalore.  Dr.RS.Lekshmi served as an External Academic Auditor for MBA Department, Tagore Engineering College, Chennai.

### **INDUSTRIAL VISITS – I:**



### **INDUSTRIAL VISITS – II:**





On May 17<sup>th</sup> May2023, the students of MBA 1<sup>st</sup> year went on an industrial visit to Enerlife groups (Nabati manufacturing industry) located at Chennai which manufactures premium quality wafers. The visit consisted of 50students along with two faculty members namely Mr. Aravinth and Ms. Bharathi. The students and the staff left the college premises around 9:30AM and reached the destination around 11:30AM.

Finally, the students and staff reached the college premises around 4:30 pm in the evening. The students felt the session enlightening and interesting as it is closely related to the course in the production. The students thanked the department for the knowledgeable session.

On 18<sup>th</sup> May 2023, the students of MBA first year went on an industrial visit to ‘Enerlife Group’ which produces the famous wafer chocolates called Nabati in Sholavaram Chennai. The visit consists of 52 students along with the faculty members Dr. L. Rajesh Kumar and Dr. N. Madhumitha. The students and the staffs left the college premises around 8.30 am and reached the destination the Enerlife Group by 11.00 am.

The students felt the session enlightening and interesting as it is closely related to the course in the production. The students thanked the department for the knowledgeable session.

## DEPARTMENT OF MATHEMATICS AND ENGLISH

Events	Remarks																																														
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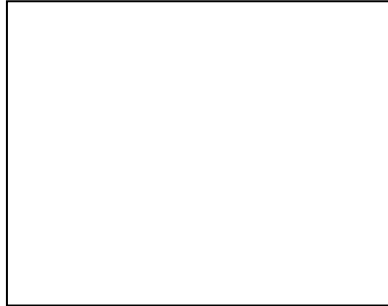
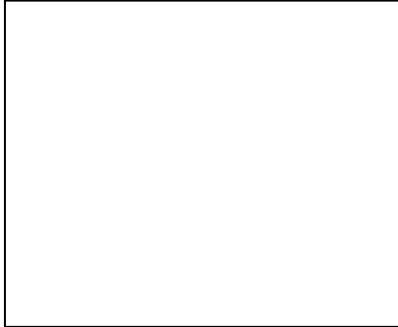
<p><b>Publications(only published) details</b></p>	<ol style="list-style-type: none"> <li>1. <b>M. Arulperumjothi</b>, Sandi Klavžar, S. Prabhu. Redefining fractal cubic networks and determining their metric dimension and fault-tolerant metric dimension. Applied Mathematics and Computation April 2023, Volume 452, E ISSN : 1873-5649 <a href="https://doi.org/10.1016/j.amc.2023.128037">https://doi.org/10.1016/j.amc.2023.128037</a>, SCIE</li> <li>2. Dr.Shahnawaz Ayoub, Dr.RajeshKumar Rameshbhai Savaliya, <b>Purushothaman G</b>, Dr. Nitin Girdharwal,Dr. Mrinal Verma,Mohit Tiwari, Intelligent Optimization Algorithm Based Data Storage and Management: An Empirical Study, IEEE XPLORE, April 2023, Pp: 1430-1435, <a href="https://doi.org/10.1109/ICEARS56392.2023.10085038">https://doi.org/10.1109/ICEARS56392.2023.10085038</a> SCOPUS</li> <li>3. Niladri Maiti, <b>G Meena Devi</b>, A. S. Loganathan, Nabamita Deb, Vikas Tripathi, Fred Torres-Cruz, Brain Tumor Detection Using Unsupervised Local Center of Mass Segmentation: as an CNN based Approach, AIP Conference Proceedings, April 2023, Vol 2603, No. 020003 (2023), Pp:1-7, <a href="https://doi.org/10.1063/5.0126118">https://doi.org/10.1063/5.0126118</a> , SCOPUS</li> <li>4. Praveen Kumar Misra, <b>G Meena Devi</b>, S. A. Yuvaraj, Mohd Zeeshan, S. Fathhoor Rabbani, Shvets Yuriy Yurievich, Influence of Artificial Intelligence for Diagnostic Decision making using Radiological Imaging, April 2023, Vol 2603, 2603020013, Pp:1-4, <a href="https://doi.org/10.1063/5.0126107">https://doi.org/10.1063/5.0126107</a> SCOPUS</li> <li>5. Richard, Amala S., Praveena, <b>N. Jose Parvin</b>, Rajkumar A. Special single valued octagonal Neutrosophic number and its applications using MATLAB programming, Journal of Intelligent &amp; Fuzzy Systems, April 2023, <a href="https://doi.org/10.3233/JIFS-221567">https://doi.org/10.3233/JIFS-221567</a>, SCIE</li> <li>6. <b>P. Chellamani</b>, D. Ajay, Mohammed M. Al-Shamiri, Rashad Ismail, Pythagorean Neutrosophic Planar Graphs with an Application in Decision-Making Computers, Materials and Continua, No.April 2023,75(3), pp: 4935-4953, <a href="https://doi.org/10.32604/cmc.2023.036321">https://doi.org/10.32604/cmc.2023.036321</a>, SCIE</li> <li>7. T. Vasudeva Reddy, <b>H. Geetha</b> , Fred Torres-Cruz , Chandra Kumar Dixit, Jyoti Saxena, Pandurang Y Patil, Silver Nanoclusters based Glucose Biosensors for Efficient Diagnosis of Diabetes Mellitus through Machine Learning Approach, AIP Conference Proceedings, April 2023 , Vol. 2603, No. 1, <a href="https://doi.org/10.1063/5.0128453">https://doi.org/10.1063/5.0128453</a>, SCOPUS</li> </ol>
<p><b>Funded Projects</b></p>	<p style="text-align: center;">-</p>
<p><b>Other activities</b></p>	<p style="text-align: center;">-</p>

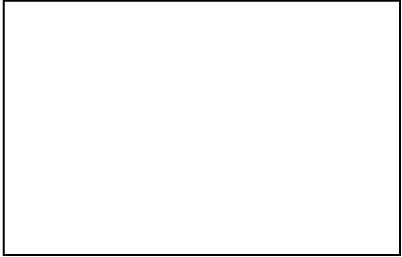
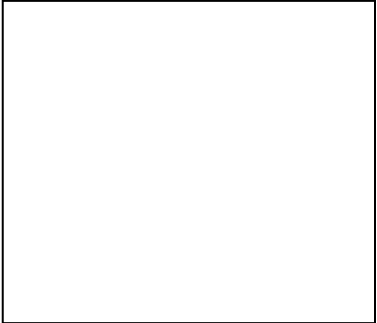


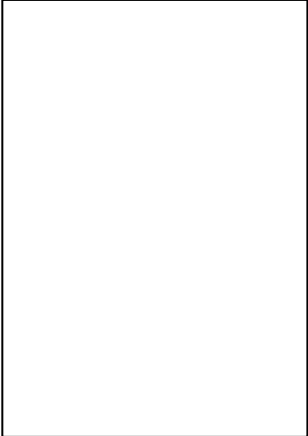
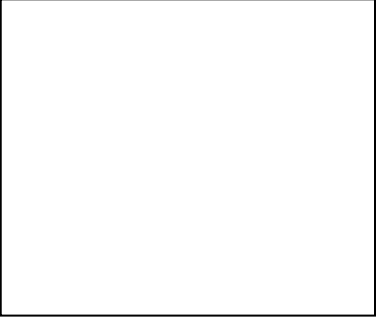
## DEPARTMENT OF SCIENCE

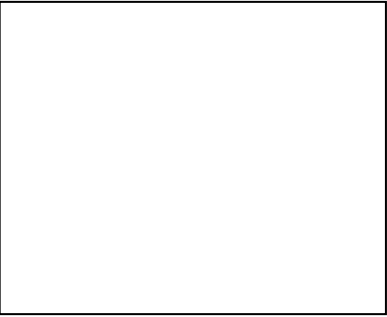
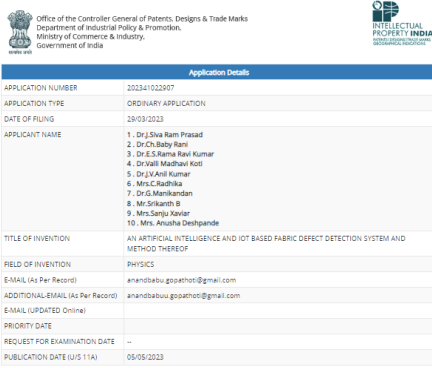
Sl. No.	Events	Remarks
4	<b>FDP/Workshop/Conference</b>	<p><b><i>NPTEL / SWAYAM CEC certifications / FDP</i></b></p> <p>1. Dr. S. Kiruba, Dr. N. Punitha, Dr. A. Arulmozhi, Dr. K. Sathesh Kumar, Dr. S. Rama, Dr. G. Murugan, Dr. V. Swarnalatha, Dr. P. Saravanan, Dr. A. Uma Devi, Dr. G. Sasikumar, Dr. T. L. Ajeesha, Dr. C. Abinaya completed 12 weeks NPTEL certificate course on “Air pollution and control”.</p> <p>2. Dr. S. Suresh completed 12 weeks NPTEL certificate course on “Atomic and molecular physics”.</p> <p>3. Ms. S. Kaleel Mohamed Ibrahim completed 12 weeks SWAYAM-CEC certificate course on “Plant pathology and soil health”.</p> <p><b><i>Attended</i></b></p> <p>1. Dr. V. Swarnalatha, Ms. J. Sharmila, Ms. S. Savitha, Dr. T.L. Ajeesha, Dr. P. Krishnan attended 5 Days National Faculty Development Program on “Computational Modelling Of Materials” conducted by “Madanapalle Institute Of Technology &amp; Science, Madanapalli, AP” held between 08.05.23 and 12.05.23.</p> <p>2. Mr. S. Kaleel Mohamed Ibrahim, Dr. P. Krishnan, Dr. K. Satheshkumar, Dr. P. Saravanan, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Dr. G. Sasikumar, Dr. K. Jayamoorthy, Dr. T.L. Ajeesha attended National Online workshop on “Hands-on impedance analysis and implementation of differential equation” conducted by “Vellore Institute of Technology, Chennai” held on 25.04.2023. (Certificates received in the month of May)</p> <p>3. Dr.S.Kiruba, Dr. N. Punitha, Dr. S. Suresh, Dr. S. Rama, Dr. V. Swarnalatha, Ms. S. Savitha, attended National Online workshop on “Analytical software- EIS spectrum analyser and Mathematics” conducted by “Vellore Institute of Technology, Chennai” held on 25.04.2023. (Certificates received in the month of May)</p>
9	<b>Awards/Prize won by students / Staff</b>	<p><b><i>Reviewers:</i></b></p> <p>Dr. K. Jayamoorthy has acted as reviewer for the following reputed journals.</p> <ol style="list-style-type: none"> <li>1. Current Organic chemistry– May 2023</li> <li>2. Journal of Saudi Chemical Society (3 articles) – May 2023</li> </ol>
10	<b>Industrial Projects done by students</b>	-
11	<b>Publications(only published) details</b>	<p>1. Dr. V. Swarnalatha, Dr. P. Saravanan published a paper titled “Inclusion Complex of Histidine-Cyclic Voltametry” in European Chemical Bulletin, 12(5), 793-799, 2023.</p> <p>2. Dr. K. Jayamoorthy published a paper titled “Sustainable development of anode materials for non-aqueous potassium ion batteries” in the “Journal of Energy Storage” 68, 2023, 107691.</p>

## DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	  <b>V. Muthulakshmi and P. Suthanthira Devi</b> Published a paper in Scopus Indexed Conference	<p style="text-align: center;"><b><u>Staff Paper Publication</u></b></p> <p><b>V. Muthulakshmi, K. Vijayakumar, P. Suthanthira Devi, Rajin Gangadharan, D. Suresh</b>, “Fake News Classification using Transfer Learning”, 2023 International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering, doi: 10.1109/ICECONF57129.2023.10083678, Publisher: IEEE, E ISBN: 979-8-3503-3436-4, Print ISBN:979-8-3503-3435-7, pp. 1-7, 2023. <b>(Indexed in Scopus)</b></p> <p><b>Abstract:</b> The rising complexity of information communication technology has greatly affected communication through conventional broadcast media over the past decade. Smartphone applications are increasingly emasculating the new socio-economic broadcasting environment. The trend is the same in the workplace, at home and in recreation. Social networking has stolen the game and is increasingly shifting to another age, the era of “digital relationships,” in which conventional interpersonal social interactions are replaced by mobile devices and social networks. The consequences of such false information promoted by miscreants and apologists for social media are far-reaching because it has resulted in scandals in households, communities, partnerships, organizations, and culture as a whole. The purpose of this paper is to lead to the eradication of counterfeit media by the use of technology. In this article, we proposed and built a model that incorporates neural networks to identify and eradicate false phrases posted to social media networks and web forums. Also, we compared our work Elmo VNetwith current state-of the-art models. The experimental results demonstrated that the proposed Elmo VNetmodel have better accuracy rate than the existing models.</p>
2	  <b>Ms. Kripa Sekaran</b> Published a paper in Scopus Indexed Conference	<p style="text-align: center;"><b><u>Staff Paper Publication</u></b></p> <p><b>Shakir Khan, Viswanathasarma Ch, Kripa Sekaran, Kapil Joshi, Chandan Kumar Roy, Mohit Tiwari</b>, “Incorporating Deep Learning Methodologies into the Creation of Healthcare Systems”, 2023 International Conference on Artificial Intelligence and Smart Communication, DOI: 10.1109/AISC56616.2023.10085651, Publisher: IEEE, E ISBN: 979-8-3503-2230-9, Print ISBN:979-8-3503-2231-6, pp. 994-998, 2023. <b>(Indexed in Scopus)</b></p> <p><b>Abstract:</b> The health recommender system is crucial for deriving outputs like proposing diagnoses, health insurance, clinical pathway-based treatment techniques, and alternative medications based on the patient's health profile as more and more individuals rely on social networks to learn about their health. In order to minimize the time and money spent on healthcare, recent studies have focused on using vast amounts of medical data by merging multimodal data from many sources. When it comes to making decisions about a patient's health, big data analytics with recommender systems play a crucial part in the healthcare industry. This article suggests a LeNET Convolution neural network (CNN) that sheds light on the application of big data analysis to the development of a useful health recommendation systems and shows how the healthcare sector can benefit from shifting from a standard model to a more individualized one in the context of telemedicine. The suggested method yields lower error rates than competing methods by taking both the Root Squared Mean Error (RSME) and Average Absolute Error (AAE) into account.</p>

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3	 <p data-bbox="285 643 562 769"><b>J. Gnanasoundharam</b> Published a paper in Scopus Indexed Conference</p>	<p data-bbox="1178 289 1476 318" style="text-align: center;"><b><u>Staff Paper Publication</u></b></p> <p data-bbox="680 321 1965 483">R. Praveena, T.R.Ganesh Babu, G. Sudha, M. Birunda, <b>J. Gnanasoundharam</b>, K. GokulKannan, “Distracted Driver Detection Using Deep Learning Classifier of Image Net Models”, 2022 International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Publisher: IEEE, doi: 10.1109/ICAISS55157.2022.10010859, E ISBN:978-1-6654-8962-1, Print ISBN:978-1-6654-8963-8, pp. 1-5, 2022. <b>(Indexed in Scopus)</b></p> <p data-bbox="680 524 1965 753"><b>Abstract:</b> There is a growing possibility of drivers engaging in disruptive behaviors with increasingly regular in-vehicle technologies and transported devices. As a consequence, diversion and carelessness are adding to the likelihood of a collision and have a growing effect on driving health. To alleviate these concerns, this study discusses the usage of a dashboard camera to accurately identify distracted drivers utilizing a machine learning methodology. Then we use Image net models like VGG16, RESNET50, Xception and Mobile net to predict the rate of performance analysis of driver detection. Also this study implemented an alert system procedure of distracted driver prediction using machine learning techniques.</p>
4	 <p data-bbox="264 1222 583 1287"><b>Ms. S. Anitha</b> Published a patent (India patent)</p>	<p data-bbox="1230 812 1444 841" style="text-align: center;"><b><u>Patent Published</u></b></p> <p data-bbox="680 842 1955 899"><b>Title of the invention :</b> A Multifunctional Foldable Solar Photovoltaic Assembly with IoT Connectivity and Method thereof</p> <p data-bbox="680 911 926 938"><b>Name of Inventor :</b></p> <ol data-bbox="768 943 1205 1271" style="list-style-type: none"> <li>1 . Dr.Rajesh Panda</li> <li>2 . Mrs.Sushree Samikshya Pattanaik</li> <li>3 . Mr.Neeraj Kumar</li> <li>4 . Mr.T.Dinesh</li> <li>5 . Mr.MD.Yaseen</li> <li>6 . Dr.Vijendra Pratap Singh</li> <li><b>7 . Mrs.Anitha S</b></li> <li>8 . Ms.Haritha Rajeev</li> <li>9 . Mr.Ambuj Kumar Misra</li> <li>10 . Mr.Gaurav D Saxena</li> </ol> <p data-bbox="680 1279 1220 1308"><b>Patent Application Number:</b> 202341006652</p> <p data-bbox="680 1312 1188 1341"><b>Date of filing of Application :</b> 01/02/2023</p> <p data-bbox="680 1344 1041 1373"><b>Publication Date:</b> 24/02/2023</p>

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5	 <p data-bbox="268 776 573 873"><b>Dr. Lilly Raamesh</b> Published a patent (South African patent)</p>	<p data-bbox="1234 280 1451 310" style="text-align: center;"><b><u>Patent Published</u></b></p> <p data-bbox="684 318 1944 378"><b>Title of the invention :</b> Artificial Intelligence-Based Healthcare System for Continuous Health Monitoring and Predicting Diseases in its Early Phase</p> <p data-bbox="684 386 926 415"><b>Name of Inventor :</b></p> <ol data-bbox="730 418 1346 711" style="list-style-type: none"> <li>1. Dr. Yallanti Sowjanya Kumari,</li> <li>2. Dr. Jeyalakshmi Kaniyappan Sathiyavan,</li> <li>3. Dr. Subashini Balakrishnan,</li> <li>4. Dr. Jency Rubia Jebaraj,</li> <li>5. Dr. Rajesh Thipparaju,</li> <li>6. Dr. Sumagna Patnaik Nancy Beulah Rathinam,</li> <li><b>7. Dr. Lilly Raamesh,</b></li> <li>8. Sakthivel,</li> <li>9. Tarun Jaiswal</li> </ol> <p data-bbox="684 719 1041 748"><b>Patent Number:</b> 2022/12742</p> <p data-bbox="684 756 1188 786"><b>Date of filing of Application :</b> 23/11/2022</p> <p data-bbox="684 794 1020 823"><b>Publication Date:</b> 20/04/23</p> <p data-bbox="684 831 999 860"><b>Date of Grant:</b> 22/2/2023</p>
6	 <p data-bbox="252 1308 625 1369"><b>Ms. P.M. Sinthuja</b> published a patent (India patent)</p>	<p data-bbox="1234 927 1451 956" style="text-align: center;"><b><u>Patent Published</u></b></p> <p data-bbox="684 964 1881 1024"><b>Title of the invention :</b> A System and Method for Intelligent Analysis of Medical Data using Machine Learning Classifiers and Clusters with Cloud Computing</p> <p data-bbox="684 1032 926 1062"><b>Name of Inventor :</b></p> <ol data-bbox="730 1065 1083 1390" style="list-style-type: none"> <li>1. Dr. Vijendra Pratap Singh</li> <li>2. Mr. Noor Basha</li> <li>3. Dr. Yashveer Singh</li> <li>4. Mr. Sagar Choudhary</li> <li>5. Mrs. Sanjana</li> <li><b>6. Mrs. Sinthuja P M</b></li> <li>7. Mrs. Roopalakshmi S</li> <li>8. Mrs. K. Shilpa Reddy</li> <li>9. Dr. Farhad F Mehta</li> <li>10. Dr. Vishwas Mishra</li> </ol> <p data-bbox="684 1398 1220 1427"><b>Patent Application Number:</b> 202311011885</p> <p data-bbox="684 1435 1188 1464"><b>Date of filing of Application :</b> 21/02/2023</p> <p data-bbox="684 1472 1041 1502"><b>Publication Date:</b> 17/03/2023</p>


Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
7	 <p><b>Dr. L. Sherly Puspha Annabel</b> published a patent (India patent)</p>	<p style="text-align: right;"><b><u>Patent Published</u></b></p> <p><b>Title of the invention :</b> Predicting the Progression of Acute Respiratory Syndrome Impairment Using Machine Learning Analytics</p> <p><b>Name of Inventor :</b></p> <ol style="list-style-type: none"> <li>1 . Dr. Smitha Kurian</li> <li>2 . Dr. Saurabh Suman</li> <li>3 . Mrs. M. Mahabooba</li> <li><b>4 . Dr. L. Sherly Puspha Annabel</b></li> <li>5 . Dr. G. Sundar</li> <li>6 . Dr. Sheshang Degadwala</li> <li>7 . Dr. P. Patchaiammal</li> <li>8 . Dr. Gaurav Gupta</li> </ol> <p><b>Patent Application Number:</b> 202341026769</p> <p><b>Date of filing of Application :</b> 11/04/2023</p> <p><b>Publication Date:</b> 05/05/2023</p>
8		<p style="text-align: right;"><b><u>Patent Published</u></b></p> <p><b>Title of the invention :</b> An Artificial Intelligence and IoT Based Fabric Defect Detection System and Method Thereof</p> <p><b>Name of Inventor :</b></p> <ol style="list-style-type: none"> <li>1 . Dr.J.Siva Ram Prasad</li> <li>2 . Dr.Ch.Baby Rani</li> <li>3 . Dr.E.S.Rama Ravi Kumar</li> <li>4 . Dr.Valli Madhavi Koti</li> <li>5 . Dr.J.V.Anil Kumar</li> <li>6 . Mrs.C.Radhika</li> <li><b>7 . Dr.G.Manikandan</b></li> <li>8 . Mr.Srikanth B</li> <li>9 . Mrs.Sanju Xaviar</li> <li>10 . Mrs. Anusha Deshpande</li> </ol> <p><b>Patent Application Number:</b> 202341022907</p> <p><b>Date of filing of Application :</b> 29/03/2023</p> <p><b>Publication Date:</b> 05/05/2023</p>



Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
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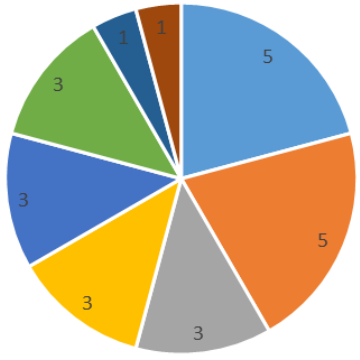
9	 <p style="text-align: center;"><b>FDP Certificate</b></p>
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**Online FDP Attended by Faculty**

10	 <p style="text-align: center;"><b>Sample certificate</b></p>
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**Online Certifications**

24 online certifications have been obtained by our IT students from some of the reputed online course platforms.



**No of certifications**

Platform	Number of Certifications
Udemy	5
Infosys springboard	5
IBM	3
Coursera	3
UiPath	3
GreatLearning	3
CodeRed	1
HackerRank	1

