



**SEPTEMBER 2023**  
**DEPARTMENT OF Artificial Intelligence and Machine Learning**

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	<p>Peer to Peer Networking and Applications  <a href="https://doi.org/10.1007/978-93-023-01536-3">https://doi.org/10.1007/978-93-023-01536-3</a></p> <p><b>Task scheduling based on minimization of makespan and energy consumption using binary GWO algorithm in cloud environment</b></p> <p>Gobalakrishnan Natesan<sup>1</sup>, N. Manikandan<sup>2</sup>, K. Pradeep<sup>3</sup>, L. Sherly Puspha Annabel<sup>4</sup></p> <p>Received: 4 April 2022 / Accepted: 26 July 2022      © The Author(s), under exclusive license to Springer Science+Business Media, LLC, part of Springer Nature 2022</p> <p><b>Abstract</b>      The Cloud environment had been the go-to for many users recently. Once request from users get submitted, cloud resources are put into action to fulfill the request. Scheduling is the primary task in cloud that needs to be up-to the mark for completing the requests swiftly. Multiple dynamic requests are submitted simultaneously by cloud users that necessitates precise and prompt scheduling in cloud. Scheduling in cloud may be hampered by various constraints, take for example the various QoS parameters that needs to be upheld. Though many researchers had proposed solutions for scheduling in cloud, improvisations can still be made by combining several QoS parameters that help attain optimized scheduling in cloud to boost the overall cloud performance. In this paper, we had proposed a Binary Grey Wolf Optimization (BGWO) algorithm to optimize the scheduling activity in cloud computing environment. The BGWO is a multi-heuristic algorithm where tasks are scheduled based on a fitness function, explicitly designed for achieving optimization goal. The fitness function that had been designed comprises of three prime parameters namely, the degree of imbalance (DoI), energy consumption and makespan. The performance efficiency of the proposed BGWO had been ascertained by comparing it with Oppositional based Grey Wolf Optimization algorithm (OGWO) and Mean Grey Wolf Optimization algorithm (Mean GWO) with respect to imbalance, energy and makespan parameters. The proposed algorithm had produced a cumulative improvement of 10.13% and 17.4% for makespan, 30.18% and 41.96% for DoI, 8.94% and 14.95% for energy consumption parameters. Detailed comparative results obtained had been described in the Results part of this research article.</p> <p><b>Keywords</b> Cloud Computing · Optimization · Meta-heuristics · Scheduling · QoS · Binary-GWO · Degree of Imbalance · Makespan</p> <p><b>1 Introduction</b>      Parallel computing and Distributed Computing techniques had been employed in cloud computing for servicing the users through the Internet platform. Cloud-computing had been brought in cloud computing services that adopts the "pay as you use" model [1–3]. Virtualization technology had been exploited by the cloud providers for providing the resources requested by the users through virtual machines (VMs). These virtual machines are in turn put to appropriate use by the service providers for providing application level services to their users. Efficient task scheduling techniques are needed by the service providers to assign the received user tasks to appropriate VM, minimize the response time taken, make optimal use of available resources and satisfy the various quality level constraints as demanded by the users [4, 5]. Hence task scheduling is deemed to be one of the primary activities in the cloud computing infrastructure.</p> <p>Co-author:  <b>Dr. Sherly Puspha Annabel. L</b>      Published a paper in Scopus &amp; SCIE Indexed Journal</p>	<p style="text-align: center;"><b>Staff Paper Publication</b></p> <p>Natesan, G., Manikandan, N., Pradeep, K., &amp; Sherly Puspha Annabel, L. "Task scheduling based on minimization of makespan and energy consumption using binary GWO algorithm in cloud environment". <i>Peer-to-Peer Networking and Applications</i>, pp. 1-14, doi: <a href="https://doi.org/10.1007/s12083-023-01536-3">https://doi.org/10.1007/s12083-023-01536-3</a>, September 2023. (Indexed in Scopus &amp; SCIE)</p> <p><b>Abstract:</b> The Cloud environment had been the go-to for many users recently. Once request from users get submitted, cloud resources are put into action to fulfill the request. Scheduling is the primary task in cloud that needs to be up-to the mark for completing the requests swiftly. Multiple dynamic requests are submitted simultaneously by cloud users that necessitates precise and prompt scheduling in cloud. Scheduling in cloud may be hampered by various constraints, take for example the various QoS parameters that needs to be upheld. Though many researchers had proposed solutions for scheduling in cloud, improvisations can still be made by combining several QoS parameters that help attain optimized scheduling in cloud to boost the overall cloud performance. In this paper, we had proposed a Binary Grey Wolf Optimization (BGWO) algorithm to optimize the scheduling activity in cloud computing environment. The BGWO is a multi-heuristic algorithm where tasks are scheduled based on a fitness function, explicitly designed for achieving optimization goal. The fitness function that had been designed comprises of three prime parameters namely, the degree of imbalance (DoI), energy consumption and makespan. The performance efficiency of the proposed BGWO had been ascertained by comparing it with Oppositional based Grey Wolf Optimization algorithm (OGWO) and Mean Grey Wolf Optimization algorithm (Mean GWO) with respect to imbalance, energy and makespan parameters. The proposed algorithm had produced a cumulative improvement of 10.13% and 17.4% for makespan, 30.18% and 41.96% for DoI, 8.94% and 14.95% for energy consumption parameters. Detailed comparative results obtained had been described in the Results part of this research article.</p>




**Certificates received by the Faculty**

**FDP / Workshop Attended by the faculty**

<b>S. No.</b>	<b>Name of the FDP /Workshop</b>	<b>Name of the staff</b>	<b>Conducted By</b>	<b>Duration</b>
5	Emerging Trends in Web Application Development	Ms. Ancy. S	Annamalai University	1.9.23 &2.9.23 (2 Days)

## DEPARTMENT OF BIOTECHNOLOGY

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 style="text-align: center;"><i>Industrial Visit – II year biotech students</i></p>	<p>II year Biotech students visited the Modern Bakers (Madhavaram) industry on 12/09/2023 along with 2 faculty members.</p>
3.	<b>GUEST LECTURE</b>	
4.	<b>FDP/WORKSHOP/CONFERENCE</b>	<p>1. Dr. G. Baskar, Participated in Five Days Faculty Development Program on “Industrial Waste Water Management</p>



## Industrial Waste Water Management (IWWM-2023)

### Certificate of Participation

This Certificate is Awarded to

**Baskar Gurunathan**

of **St. Joseph's College of Engineering,**

Chennai

for Participating Five Days Faculty Development Program on "Industrial Waste Water Management (IWWM-2023)" Organized by Department of Chemical Engineering, in Association with IQAC, Haldia Institute of Technology, Haldia, West Bengal, India from 28<sup>th</sup> August - 1<sup>st</sup> September, 2023.

Prof. (Dr.) Subrata Mondal  
Principal  
Haldia Institute of Technology

Prof. (Dr.) Sunil Baran Kuila  
HOD, CHE  
Haldia Institute of Technology

Dr. Siddhartha Sankar Boxi  
Convener  
IWWM-2023

*Certificate of Dr.G.Baskar*



## NPTEL+ Workshop Certificate

This certificate is awarded to

**G BASKAR**

for successfully completing the online workshop

**Applications of machine learning techniques in biology using WEKA**

by Prof. M Michael Gromiha, IIT Madras

Date : 9th & 10th Sep, 2023




Verify

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras


(IWWM-2023)" Organized by Department of Chemical Engineering, in Association with IQAC, Haldia Institute of Technology, Haldia, West Bengal, India from 28<sup>th</sup> August - 1<sup>st</sup> September, 2023.

2. Dr. G. Baskar, Completed two days NPTEL workshop on Applications of machine learning techniques in biology using Weka organized by IIT Madras on 9<sup>th</sup> and 10<sup>th</sup> September 2023.
3. Ms. Yuwvararanni.S has successfully completed 8 week NPTEL course in Introduction to Biostatistics from July-September 2023 organized by IIT Bombay

*Certificate of Dr.G.Baskar*



**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 Biostatistics**  
with a consolidated score of **41** %


Online Assignments	10.5/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **337**


Jul-Sep 2023  
(8 week course)




**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL23BT58S35333350 To verify the certificate  No. of credits recommended: 2 or 3

*Certificate of Ms. S. Yuwvaranni*

5.

**PUBLICATIONS(ONLY PUBLISHED) DETAILS**

1. Dr. Chamundeeswari. M has presented a technical paper titled " Toxicity Optimization Of Green Zinc Oxide Quantum Dots In Zebrafish Using Box-Behnken Design: A Novel Approach For Safer Nanoparticle Synthesis" in International Conference on Scientific and Innovation Research, Sivas Science and Technology University and ISKAD Institute Turkey, Held on 15-17 th September 2023.





*Certificate copy of Dr.M. Chamundeeswari*



International Journal of Polymer Analysis and Characterization



ISSN: (Print) (Online) Journal homepage: <https://www.tandfonline.com/loi/gpac20>

### Development and characterization of DGEBA-APTES-ZrO<sub>2</sub> nanocomposite coatings for anti-corrosion and anti-fouling

Saravanan P, Anandkumar S, Sharmila J, Chamundeeswari M, Suresh S & Nisha P


To cite this article: Saravanan P, Anandkumar S, Sharmila J, Chamundeeswari M, Suresh S & Nisha P (2023): Development and characterization of DGEBA-APTES-ZrO<sub>2</sub> nanocomposite coatings for anti-corrosion and anti-fouling, International Journal of Polymer Analysis and Characterization, DOI: [10.1080/1023666X.2023.2254034](https://doi.org/10.1080/1023666X.2023.2254034)

To link to this article: <https://doi.org/10.1080/1023666X.2023.2254034>

2. Dr. Chamundeeswari M, published a paper on,"Development and characterization of DGEBA-APTES-ZrO<sub>2</sub> nanocomposite coatings for anti-corrosion and anti-fouling, International Journal of Polymer Analysis and Characterization, 11 Sept 2023, DOI: 10.1080/1023666X.2023.2254034

	<i>Published paper copy of Dr.M.Chamundeeswari</i>	
<b>6.</b>	<b>FUNDED PROJECTS</b>	-
<b>7.</b>	<b>STAFF CONFERENCE PRESENTATION</b>	

## 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>15.09.2023 – Department of Chemical Engineering has Organized a One day Industrial Visit to <b>Anchor Leathers</b>, Chennai for III Semester - II Year Students</p> 



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

Sl. No.	Event with Photo	Description
1	Guest Lecture - Career in Banking Financial Services Insurance	
	 <p> <b>Department of Computer Science and Engineering</b>  <i>Organizes Guest Lecture On</i>  <b>Career In Banking                  Financial Services Insurance</b>                   01 Sep                  1-3 pm                  Periwinkle hall   <b>J Christina Praisie</b>                  MCA Alumna                  Batch 2015-2018                  Project Manager -Transitions                  citibank                   St. Joseph's College of Engineering                  YOU CHOOSE, WE DO IT                  St. Joseph's Institute of Technology                  WE MAKE YOU SHINE   <b>The Choice of                  Disciplined Toppers</b> </p>	<p> <b>Date</b> : 01.09.2023  <b>Venue</b> : Perwinkle hall  <b>Nature of Event</b> : Guest lecture  <b>Participants</b> : Engineering III and IV year Students  <b>Organized by</b> : Department of CSE  <b>Objective</b> : To provide students with insights into the diverse and promising career avenues within the BFSI sector.  <b>Outcome:</b> </p>

2

Guest Lecture – Mastering the Art of Efficient system Design

**St. JOSEPH'S**  
GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119

Department of Computer Science & Engineering  
Organized  
GUEST LECTURE On  
**MASTERING THE ART OF  
EFFICIENT SYSTEM DESIGN**

FRIDAY  
22 SEPTEMBER 2023

TIME  
10:30-11:30 AM

VENUE  
LIBRARY AV HALL

**ARUN PRASAD MOHAN**  
PROGRAMMER ANALYST IN **citibank**

**St. Joseph's College of Engineering**  
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**St. Joseph's Institute of Technology**  
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**Disciplined Toppers**

**Date** : 22-9-23

**Venue** : Library AV Hall

**Nature of Event** : Guest Lecture

**Participants** : Engineering III and IV year Students

**Organized by** : Department of CSE

**Objective:**

To empower students with the expertise and techniques essential for excelling in system design.

**Outcome:**

-

3

IEEE Event : CODEQUEST'23

**30** St. JOSEPH'S GROUP OF INSTITUTIONS  
OSB, CHENNAI - 192

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING  
&  
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE  
in association with

IEEE IEEE COMPUTER SOCIETY  
IEEE Student Branch

PRESENTS

# CODEQUEST'23

FOR II YEAR STUDENTS

13 sep 2023

Hazel (placement block)

10 am - 3 pm

To Participate  
Scan above link

Kindly bring your  
laptops

COORDINATORS

MITHRA M - III RAGAVI N - III KEERTHANA S - III VARSHINI M S - III

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**Date** : 13-9-23  
**Venue** : Hazel (Placement Block)  
**Nature of Event** : IEEE Event  
**Participants** : Engineering II & III year Students  
**Organized by** : IEEE Computer society student chapter

**Objective:**

- To get exposure where participants are invited to share their innovative ideas and collaborate with others to solve specific challenges or problems.

**Outcome:**

- The Competition is a pool of innovative ideas and collaborative projects aimed at addressing real-world challenges, fostering a culture of creativity and problem-solving.

## Alumni Meet – NEXUS 2023

St. JOSEPH'S COLLEGE OF ENGINEERING  
 Department of Computer Science and  
 Engineering

**NEXUS**  
 THE ALUMNI MEET

On  
 SEPTEMBER  
 SAT **23** AT 9AM  
 2023

VENUE : INDOOR AUDITORIUM, SJCE

*We eagerly anticipate your arrival !*

St. Joseph's College of Engineering  
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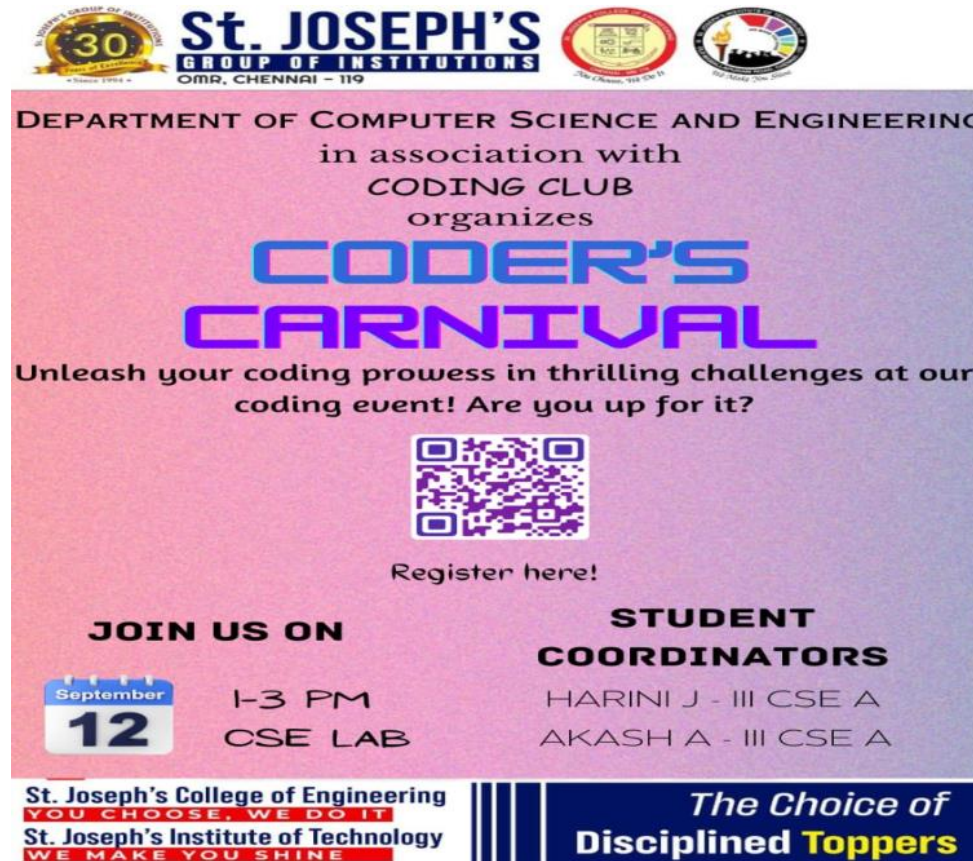
**Alumni MEET on 23rd September.****Venue** : Indoor Auditorium**Participants** : Alumni**Organized by** : Department of CSE**Outcome:**

- To allow former students to come together and reconnect with their peers, faculty members, and their alma mater.
- Moreover, alumni meetings also serve as a platform for the institute to engage with their graduates and gain insights into their career progress and achievements



5.

**CODER'S CARNIVAL**



The poster features logos for St. Joseph's Group of Institutions (30th Anniversary), St. Joseph's College of Engineering, and St. Joseph's Institute of Technology. The main text reads: 'DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING in association with CODING CLUB organizes CODER'S CARNIVAL Unleash your coding prowess in thrilling challenges at our coding event! Are you up for it?' A QR code is provided for registration. The event is on September 12, 1-3 PM at CSE Lab. Student coordinators are Harini J and Akash A, both III CSE A. The footer includes the college motto 'YOU CHOOSE, WE DO IT' and 'WE MAKE YOU SHINE', and the slogan 'The Choice of Disciplined Toppers'.

**Date** : 12-9-23

**Venue** : CSE Lab

**Nature of Event** : CODER'S CARNIVAL

**Participants** : Engineering II & III year Students

**Organized by** : Department of CSE


**Objective:**

- To get exposure where participants are invited to share their innovative ideas and collaborate with others to solve specific challenges or problems.

**Outcome:**

- The Competition is a pool of innovative ideas and collaborative projects aimed at addressing real-world challenges, fostering a culture of creativity and problem-solving.

## DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1		<ul style="list-style-type: none"> <li>➤ Symposium Titled “JETMECH2k23” was conducted on 02/09/2023. Events like <i>AutoQuiz</i>, <i>Just in Time</i>, <i>Water Rocketry</i> and <i>Budding Designer</i> was conducted. The event showed a overwhelming response from the surrounding colleges around 450 students participated in the events.</li> </ul>





St. Joseph's College of Engineering  
Department of Mechanical Engineering  
Industrial Visit by II Mech B Students



**Rishaba Industries LLP**  
(Design, Engineering and Manufacture of Export Ready Thermosflasks  
and other Household Items)  
Eggatur, Chennai  
Date : 14/09/2023

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St. Joseph's College of Engineering  
Department of Mechanical Engineering  
Industrial Visit by II Mech C Students



**Rishaba Industries LLP**  
(Design, Engineering and Manufacture of Export Ready Thermosflasks  
and other Household Items)  
Eggatur, Chennai  
Date : 14/09/2023

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St. Joseph's College of Engineering  
Department of Mechanical Engineering  
Industrial Visit by II Year A section students



**IGP Engineers Pvt.Ltd., Thiruporur , Chennai**  
(Manufacturers of Industrial Gaskets)  
Date : 15/09/2023

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### Industrial Visits Organized

- II Mech A students Visited “**IGP Engineers Pvt Ltd**”, Thiruporur, Chennai on 15/09/2023
- II Mech B students Visited “**Rishaba Industries LLP**”, Eggatur, Chennai on 14/09/2023
- II Mech B students Visited “**Rishaba Industries LLP**”, Eggatur, Chennai on 14/09/2023

(12) PATENT APPLICATION PUBLICATION (21) Application No.202341052750 A  
 (19) INDIA  
 (22) Date of filing of Application :05/08/2023 (43) Publication Date : 01/09/2023

(54) Title of the invention : MAGNETIC NATURAL FIBER COMPOSITES FOR ENERGY HARVESTING APPLICATIONS

(51) International classification :H02N0002180000, H02J0007350000, F03D0003060000, D01F0001160000, G06Q0050060000  
 (86) International Application No :PCT/  
 Filing Date :01/01/1900  
 (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


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 -----  
 2)Dussa Govardhan  
 3)Dr.N.Arunkumar  
 4)Mrs.D.Unamaheswari  
 5)Dr. R M Sathiyamoorthy  
 6)Mr.K.Bala Murugan  
 7)Mr. R.Rajaprassana  
 Name of Applicant : NA  
 Address of Applicant : NA  
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 2)Dussa Govardhan  
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 -----  
 3)Dr.N.Arunkumar  
 Address of Applicant :Professor, Department of Mechanical Engineering, St.Joseph's College of Engineering, Old Mamallapuram Road, Chennai-600119. --  
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 -----  
 7)Mr. R.Rajaprassana  
 Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Sri Sai Ram Engineering College, West Tambaram, Chennai, Tamil Nadu--600044. -----

(57) Abstract :

The invention pertains to magnetic natural fiber composites tailored for energy harvesting applications. By integrating magnetic particles uniformly within a natural fiber matrix, the invention creates a composite material that leverages the inherent advantages of natural fibers, such as flexibility and sustainability, with the functional attributes of magnetic materials. The composite is designed to harvest energy from various ambient sources, including mechanical vibrations, thermal gradients, and solar radiation, and convert it into usable electrical power. The innovative manufacturing process ensures homogeneous dispersion, long-term stability, and environmental compatibility. With potential applications in green energy solutions, portable electronics, wearable technology, and more, the invention represents a significant advancement in the field of energy harvesting, offering an efficient and eco-friendly approach to renewable energy utilization. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 22 No. of Claims : 10

➤ *Dr.N.Arunkumar* published patent on “*Magnetic Natural Fiber composites for Energy Harvesting Applications*” on 01/09/2023



St. Joseph's College of Engineering  
Department of Mechanical Engineering  
Organizes  
**Guest Lecture**  
on  
**Wind Energy Resources & Wind Energy Technology**  
(For II year Students)

By **Mr. K. BOOPATHI**  
Director & Division Head  
R&D and Resource Data Analytic and Forecasting  
National Institute of Wind Energy, MNRES, Govt of India  
Chennai 600100



23/09/2023  
Friday 08:15 - 09:30 AM

AV Hall,  
Central Library

St. Joseph's College of Engineering  
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Guest Lecture on “**Wind Energy Resources and Wind Energy Technology**” was organized for the second year students on 22/09/2023. **Mr.K.Boopathi, Director and Division head,,National Institute od Wind energy,MNRES,Govt of India,Chennai-600100** was invited as chief guest.

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Description about the various activities undertaken and corresponding remarks on its status of execution:


### 1. Publications:

The following staff members have published the research papers in Journal/Conferences organized during the month of September at International/National Level.

S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Publication
1.	Gopu Venugopal a , Arun Kumar Udayakumar b,* , Nutan Saha c , Anushkannan Nedumaran Kalavathy d , Adhavan Balashanmugham e , Vasudevan B	Augmented energy transformative intrinsic algorithm based improved power quality in fuel cell driven dynamic voltage restorer	Computers and Electrical Engineering – Elsevier	<a href="https://doi.org/10.1016/j.compeleceng.2023.108952">https://doi.org/10.1016/j.compeleceng.2023.108952</a>	September 2023
2.	Akila, T., Menaka, M., Vasanth, P., Victoria Jancee, B.	Forecasting Naturally Occurring Forest Fires using AI and Machine Learning in Wireless Sensor Networks	Proceedings of the 5th International Conference on Inventive Research in Computing Applications	ICIRCA 2023, 2023, pp. 498–502, Scopus Indexed	September 2023
3.	Loganathan, S., Victoria Jancee, B., Senkamalavalli, R., Subbu Lakshmi, T.C.	Gray Wolf Optimization Algorithm to Enhance Data Aggregation in Wireless Sensor Network	Proceedings of the 5th International Conference on Inventive Research in Computing Applications	ICIRCA 2023, 2023, pp. 1164–1169, Scopus Indexed	September 2023

4.	Jancee, B.V., Kalaiselvi, S., Muthukumaran, K., Bhaskar, K.V.	Vampire Attack Detection by Applying Support Vector Machine Algorithm in Wireless Sensor Network	Proceedings of the 2nd International Conference on Edge Computing and Applications	ICECAA 2023, 2023, pp. 213–217, Scopus	September 2023
5.	Latha, P., Kaviyarasan, K., Martin Leo Manickam, J, Jancee, B.V., Aghalya, S.	Reconfigurable Fault Current Detection System Using IoT	Proceedings of the 2nd International Conference on Edge Computing and Applications	ICECAA 2023, 2023, pp. 1390–1395, Scopus	September 2023
6.	E.Malarvizhi,G.Elavel Visuvanathan, M.Tholkapiyan,S.Parthasarathy	IoT Monitoring Scheme in Solar-based Motor Drive for Water Pump Applications	2023 2nd International Conference on Edge Computing and Applications (ICECAA)	Scopus	August 2023
7.	A. Ayub Khan; E. Malarvizhi; T. Sivakumar; S. Gayathri Priya	<b>Emergency Medical Service System with Integrated Private Access Server</b>	2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC)	Scopus	
8.	S. Yuvaraj; P. Latha; E. Malarvizhi; Balaji Madhavan	<b>FPGA based High Bandwidth LDPC using Channel Coding Technique</b>	2023 2nd International Conference on Edge Computing and Applications (ICECAA)	Scopus	August 2023

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)
1	<p style="text-align: center;"><b>Schoolreach program</b></p>  <p style="text-align: center;"><i>PIC: EVENT PHOTO</i></p>	<p><b>Date:</b> 08/09/2023</p> <p>Mind Martians- School outreach program</p> <p>Objective: Induce interest on engineering</p> <p>Conducted events like project display, Quiz, Introduction to E-vehicles and Renewable energy sources.</p>
2	<p style="text-align: center;"><b>Industrial Visit</b></p> 	<p>Our department organized a visit to Axis global Automation, Chennai.</p> <p>12/09/2023, 13/09/2023, 15/09/2023 for II Year C, B, A section students respectively.</p> <p>Gained knowledge on robotics arm</p>



Pic. Lab Visit

### 3 Guest Lecture



PIC: EVENT POSTER

Our department organized guest lecture on 16/09/2023.

Topic “**Site selection power forecasting methods of wind energy generation technologies**”

Resource person : **Mr.K.Boopathi**, Director & Division head, R&D and Resource data analytics and forecasting, NIWE- Ministry of News and Renewable energy.

Introduction to wind energy and parameters to select wind energy site was discussed and it was informative to the students.

4 Alumni talk

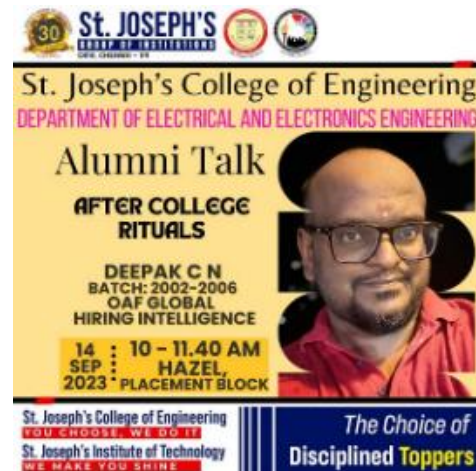


PIC: EVENT POSTER

Date: 7<sup>th</sup> Sep 23

Our department organized an alumni talk for students on the topic “**Hard work vs Smart work**” by our Alumni Mr. **Jim David W**, (2017-2021 Batch) VLSI Design and verification Engineer, HCL Technologies, Chennai on 7-09-2023 between 10:00 A.M to 11:40 A.M. The session was very interactive and useful to the students to build a successful career by getting placed in a reputed organization.

5 Alumni talk

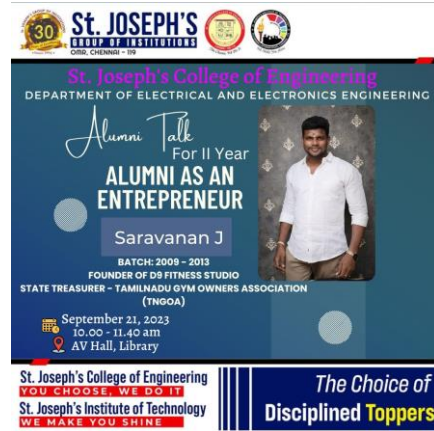


PIC: EVENT POSTER

Date: 14<sup>th</sup> Sep 23

Our department organized an alumni talk for students on the topic “**After college Rituals**” by our Alumni Mr. **Deepak C N**, (2002-2006 Batch) Founder, OAF global hiring intelligence, Chennai on 14-09-2023 between 10:00 A.M to 11:40 A.M. The session was very interactive and useful to the students to build a successful career.

6 Alumni talk

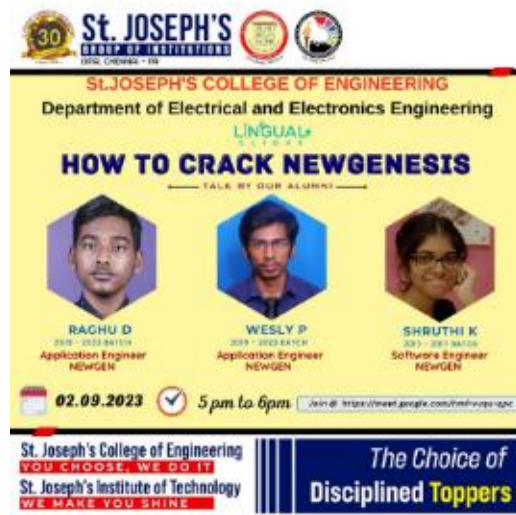


PIC: EVENT POSTER

**Date:** 21<sup>st</sup> Sep 23

Our department organized an alumni talk for students on the topic “**Alumni as an Entrepreneur**” by **our Alumni Mr. Saravanan**, Batch : 2009-2013, Founder of **D9 Fitness Studio & State Treasurer - Tamilnadu Gym Owners Association (TNGOA)** on **21-09-2023** between 10:00 A.M to 11:40 A.M. The session was very interactive and useful to the students to become an entrepreneur.

7 Placement club activities



PIC: EVENT POSTER

**Date:** 02/09/2023

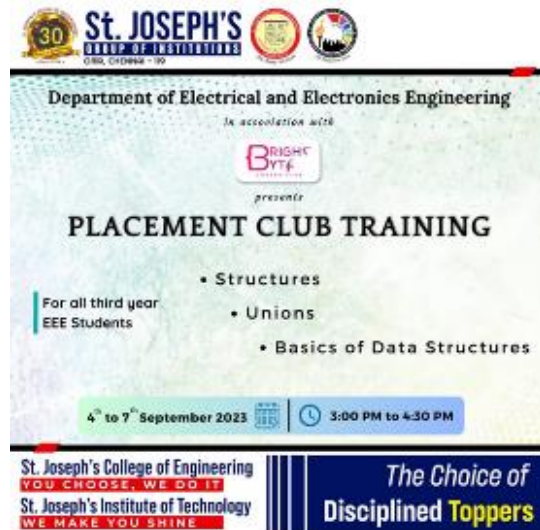
Communication Club Training

Conducted seminar For all the Newgenesis shortlisted students.

**Objectives:** Identify the strength and weakness of the students to get hired in Newgenesis

Raghu D, Wesly P and Shruthi K alumnus gave tips for Newgenesis hiring.

8 Placement club activities



PIC: EVENT POSTER

**Date:** 04/09/2023 to 07/09/2023

**Title:** Placement club training

Bright Byte Coders Club

Given hands on session on Structures, Union and basics of Data structures.

**Objectives:** To improve the coding skills of the students

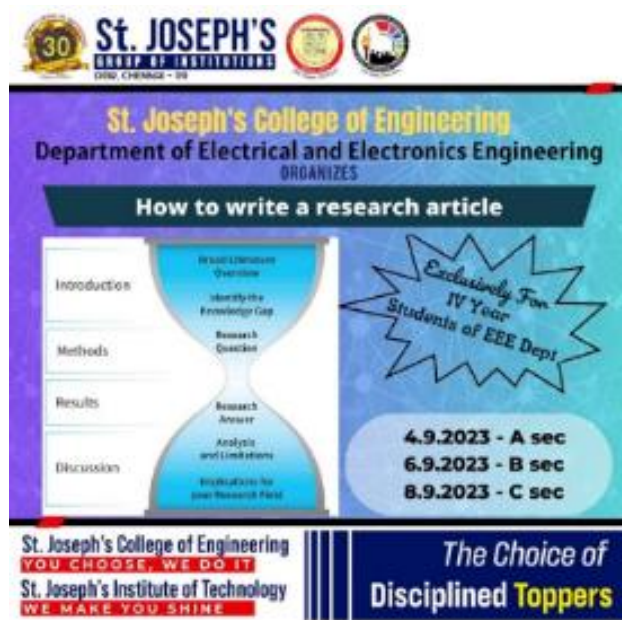
9 Placement club activities

**Date:** 04/09/2023 to 07/09/2023

**Title:** Placement club training

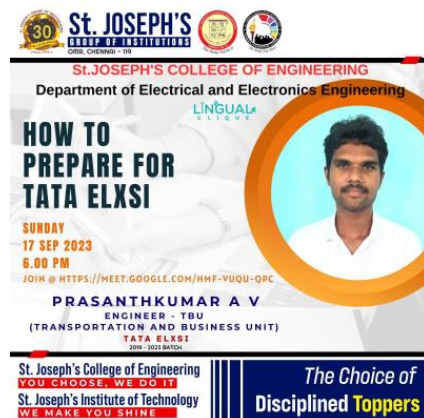
Given hands on session on “How to write a research article”

**Objectives:** To improve the skills of the students in writing articles.



PIC: EVENT POSTER

1 Placement club activities



PIC: EVENT POSTER

Date: 17/09/2023

Communication Club Training

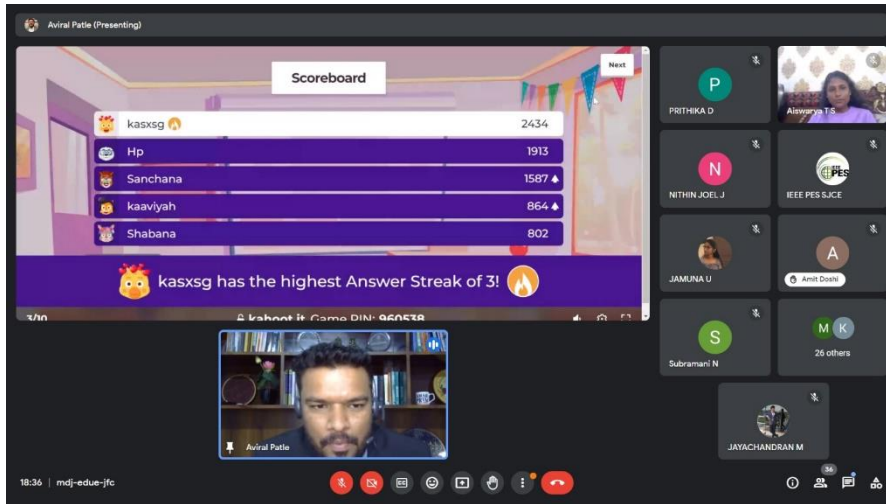
Conducted seminar For All the shortlisted (95 students) of TATA ELXSI has attended

**Objectives:** Identify the strength and weakness of the students to get hired in TATA ELXSI

**Mr. Prasanthkumar A V**, Batch : 2019-2023, Engineer- TBU, (Transportation and Business Unit) TATA ELXSI gave tips about the hiring process.



## IEEE activities



PIC: EVENT PHOTO

IEEE Power and Society in associated with IEEE St. Joseph's College of Engineering organized a webinar "UNLEASH YOUR VOICE " on the topic of "OVERCOME THE FEAR OF PUBLIC SPEAKING". The motive of this webinar was to break the fear of public speaking among the students and we hope the motive achieved at the end of the session .This session was more interactive and a way two communication session .In this we have quiz and practice sessions also .Over 40 participants from II ,III,IV year of EEE were actively participated. E-Certificate were provided to all the active participants.

## IEEE activities

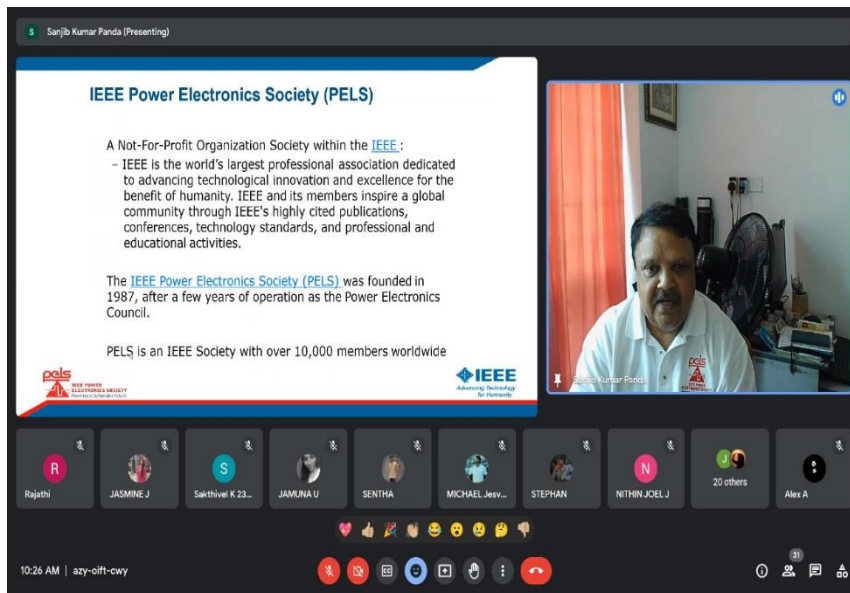


The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a "KATTURAI MEDAI" which is related to tamil essay writing on 18th september 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 35 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Anitta, Thevadharsini and Sivasankar and the others were provided with participation certificates



**Pic: EVENT POSTER**

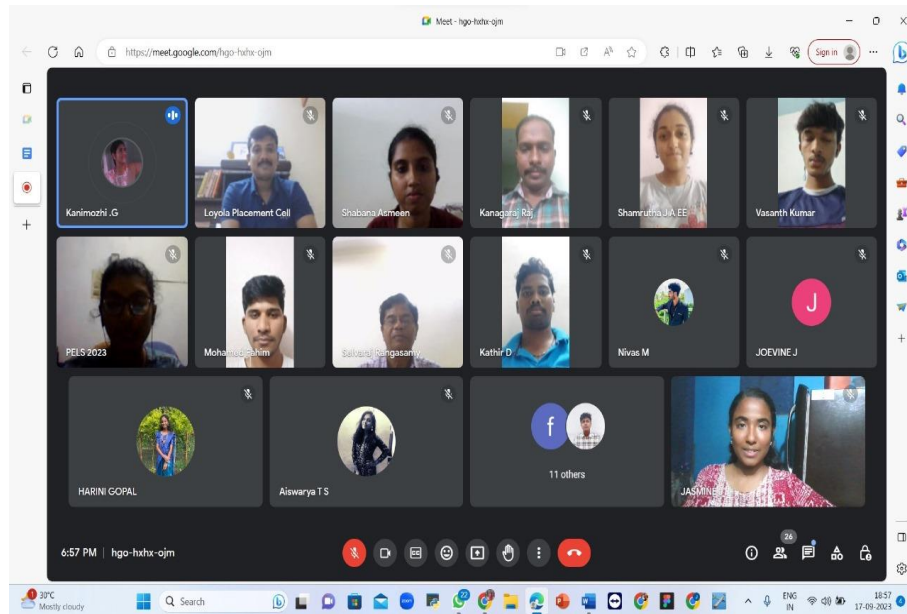
**IEEE activities**



**PIC: EVENT PHOTO**

On the occasion of Engineers Day, IEEE PELS SJCE SB, in collaboration with the IEEE Power Electronics Society Madras Chapter, proudly presented "Watts and Beyond." This distinguished lecture, titled "**Plug-n-Play of Islanded Microgrid System**," featured our esteemed speaker, Dr. Sanjib Kumar Panda, a Professor from the National University of Singapore. The event took place on the **17th of September 2023**, from **10 AM to 11 PM**, and saw active participation from approximately 32 attendees. Dr. Panda's insightful discourse on islanded microgrid systems illuminated the audience on this crucial topic in the field of power electronics, the topic was very nice and he share some paper on the topic which is more informative to the students and sir also share his IEEE experience to all the students attended the section, exemplifying the commitment to knowledge dissemination and engineering excellence that Engineers Day celebrates.

## 1 IEEE activities

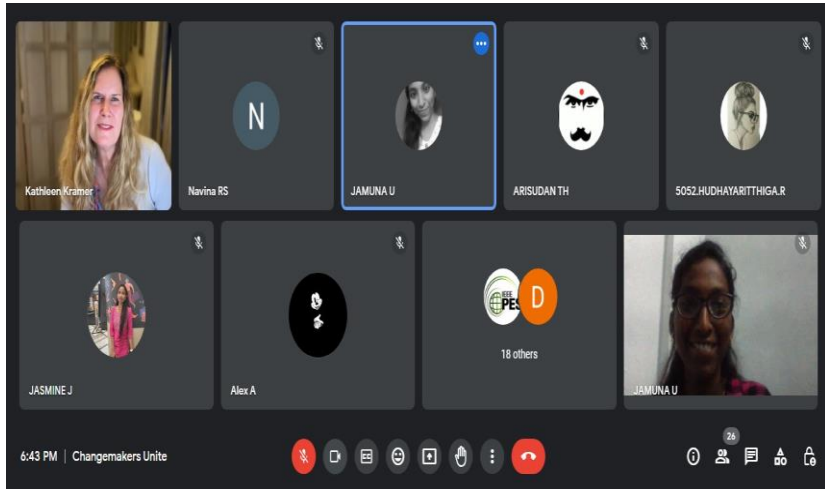


*PIC: EVENT PHOTO*

In celebration of Engineers Day, **IEEE PELS SJCE SB**, in collaboration with the IEEE Power Electronics Society Madras Chapter, is thrilled to present "**Watts and Beyond: A Networking Session**", on the topic of "**Networking - A Need for the 21st Century**". The event featured a distinguished speaker, **Mr. Princely Samuel S, Director of Training and Placement at Loyola College**, who delivered a captivating presentation on the topic "Networking - A Need for the 21st Century." This enlightening session took place on the **17th of September 2023**, from **6 PM to 7 PM**, and attracted a vibrant audience of approximately 30 participants. It was an occasion to celebrate engineering excellence and explore the vital role of networking in the modern era. The topic was very exciting and informative to the students, to know how useful to form network with other people and the information was very fruitful to all the attended students. Sir also tough the students to how to communicate with other perfectional people and form link through linked-in , it was a very interactive section. Exemplifying the commitment to knowledge dissemination and engineering excellence that Engineers Day celebrates

## 1 IEEE activities

The "CHANGEMAKERS UNITE-EMPOWER WOMEN WORLDWIDE" is a Webinar session conducted by IEEE WIE Affinity group St. Joseph's College of Engineering on 6<sup>th</sup> September 2023. A total of 30 Participants attended the session. The Presenter Ms. Kathleen Kramer, Secretary of IEEE AESS Society – 2023, Professor-University of San Diego, enthusiastically started the session on the topic of "IEEE Programs and Opportunities for Students" and answered all the questions posted from the participants. Also She discussed about the student membership, IEEE resources, scholarships, conferences, publications etc. The speaker received an E-memento at the end of the webinar



**PIC: EVENT PHOTO**

as a gratitude for sharing the ways for Research and Innovation for Women Empowerment.

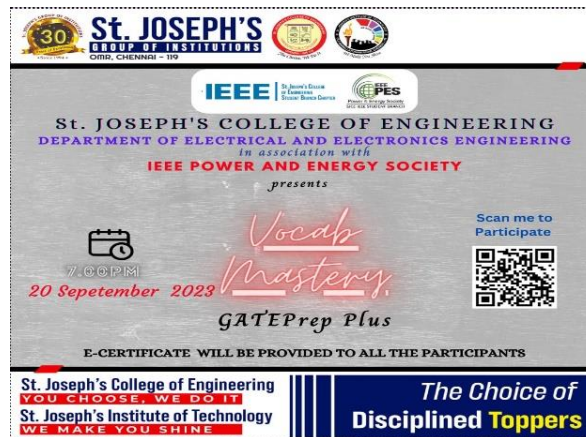
### **IEEE activities**

IEEE Power and Energy Society of St. Joseph's College Of Engineering Conducted a Technical Quiz "ALFRESCO" on 19-09-2023 .The motive of the event is to develop the knowledge of students and grooming themselves in the technical field. The students of final and pre final year from department of EEE has been participated .The event was conducted Gfrom. Around 25 students were took part in this event. The Winners and the Participants were rewarded with E-certificates as a token of appreciation.



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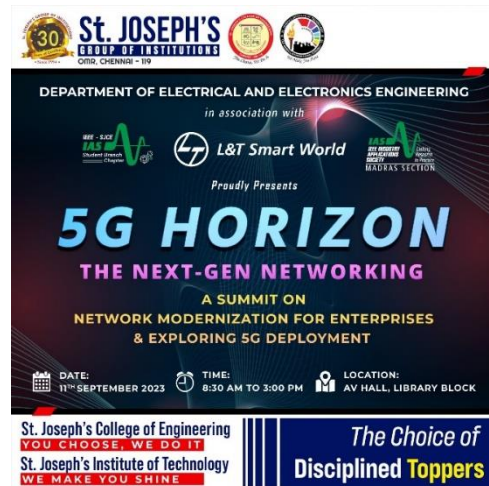
## IEEE activities



IEEE Power and Energy Society of St. Joseph's College Of Engineering Conducted a Verbal Quiz "VOCAB MASTERY" on 20-09-2023 .The motive of the event is to develop the knowledge of students for the competitive exams. The students of final and pre final year from department of EEE has been participated .The event was conducted in Eduplay platform where students were asked to answer the question and the score was posted in the Gform .Around 20 students were took part in this event .The Winners and the Participants were rewarded with E-certificates as a token of appreciation.



## IEEE activities

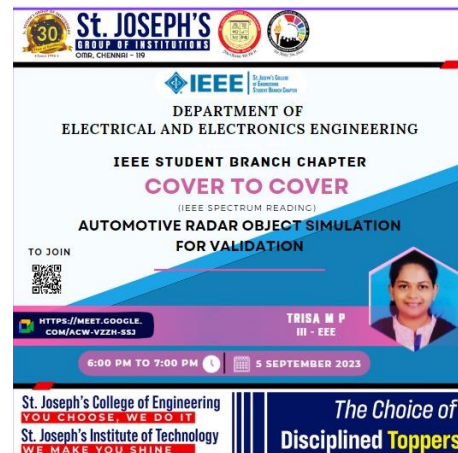


PIC: EVENT POSTER

St. Joseph's College of Engineering in association with IEEE Industry Application Society - Madras Section, IEEE Industry Application Society - St. Joseph's college of Engineering in Collaboration with L&T Smart world organized "5G Horizon" - A summit on network modernization and exploring 5G deployment held on 11th Sept, 2023 at St. Joseph's College of Engineering Student Branch Chapter. The event begins at 9.00 am and runs until 3.00 pm. The session was inaugurated by Mr. R. Srinivasan, EVP and Head of L&T Smart World. Nearly 250 participants have joined the session from various colleges and benefited.

**The session comprises of a number of informative talks with luminaries on the most recent, cutting-edge technologies. The speakers included Dr. A. R. Revathi, Mr. M. Dhanasekaran, Mr. S. Mariswaran, Mr. L. Murali, and Mr. S. Balasubramanian**

## IEEE activities



IEEE Spectrum, is the world's largest professional organisation 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. M P Trisha spoke on the "Automotive radar object simulation for validation". The speaker enlightened us with the idea that "Homologation and validation of new vehicle models today require millions of test kilometers to be driven under different environmental conditions, on different types of roads in various countries around the world. Due to the increased complexity of automated driving (AD) and advanced driver-assistance systems (ADAS) functions, and new developments in radar technology, testing efforts expand



very quickly. Just relying on road testing is no longer practical.” Around 28 students were took part in this event. The participants had an amazing experience in the meet and enjoyed the entire session..

## 2 IEEE activities



PIC: EVENT POSTER

IEEE Spectrum, is the world’s largest professional organisation 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. R Pradeepa spoke on the “Technological advancement in HEV”. The speaker enlightened us with the idea that “the lead acid battery has dominated the US \$16 billion industrial and automotive markets. But lead has not always led in hybrid electric vehicles, where far pricier nickel metal hydrides (NiMHs) are found under the hood of popular models like the Honda Insight and Toyota Prius. Now a team of researchers from the Indian Institute of Science (IIS), Bangalore, thinks it has found the way for lead acid to match NiMH’s performance.” Around 30 students were took part in this event. The participants had an amazing experience in the meet and enjoyed the entire session.

## 2 IEEE activities



PIC: EVENT POSTER


The IEEE Photonics Society Of St. Joseph's College Of Engineering Conducted 'MetaOptix', a technical online mode webinar for 3rd and 4th year EEE students, on September 8, 2023. The event aimed to inspire and motivate students to explore in the field of Metasurface for Sensor Application and foster collaboration among enthusiasts and featured a keynote address by Dr.Keshav Samrat Modi, a Member of Prakash Bharti, IEEE Photonics Society, Optica, SPIE and VIBHA, and a young researcher at CSIR-CSIO, Chandigarh, highlighting the significance of Metasurface for Sensor Application and its potential. The event saw the cumulative participation of 30 students over the Gmeet. The session was generally well received by the participants and was very informative. Participants were also allowed to interact with the speaker and get answers to their queries regarding Metasurface for Sensor Application and IEEE as a whole. E-Certificates were provided to all who participated in the event.


## 2 IEEE activities



The IEEE Photonics Society Of St. Joseph's College Of Engineering Conducted 'WaveConnect', a technical online mode webinar for 3rd and 4th year EEE students, on September 28, 2023. The event aimed to inspire and motivate students to explore in the field of Microwavephotonics and foster collaboration among enthusiasts and featured a keynote address by Dr.Amol Choudhary, faculty member at the Indian Institute of Technology Delhi, Optica Ambassador, UFO-CHIP Group leader, highlighting the significance of Microwavephotonics and its potential. The event saw the cumulative participation of 25 students over the Gmeet. The session was generally well received by the participants and was very informative. Participants were also allowed to interact with the speaker and get answers to their queries regarding Microwavephotonics and IEEE as a whole. E-

	<p style="text-align: center;"><i>PIC: EVENT POSTER</i></p>	<p>Certificates were provided to all who participated in the event.</p>
<p>2</p>	<p><b>IEEE activities</b></p>	<p><b>Trainers:</b> EMCOG Solutions</p> <p>The "EVolution" Electric Vehicle Workshop provided a day of immersive learning and hands-on experience in Electric Vehicle System Design using Matlab. It was organized by IEEE St. Joseph's College of Engineering in collaboration with IEEE Madras Section and held on September 7th, 2023. The event, which was attended by about 32 people and was totally financed by the IEEE Madras Section, included presentations on the basics of electric vehicles, Matlab applications, and the most recent developments in the business. Active participation in real-world projects helped provide beneficial networking opportunities. After the course was over, certificates of participation were given out to participants. The session came to a triumphant conclusion with the issuance of Certificates of Participation, acknowledging the attendees' commitment to expanding their understanding of electric mobility and paving the way for future sustainable transportation.</p>

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




 **IEEE** St. Joseph's Group of Institutions  
Sponsored by  
**IEEE Madras Section**

in association with  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
presents

# EVOLUTION

A ONE DAY E-VEHICLE WORKSHOP

Topic: *Electric Vehicle System Design using Matlab*  
Trainers: *EMCOG Solutions*

 7th SEPTEMBER, 2023  
 8:00 AM - 3:00 PM  
 CIRCUITS LAB

**EXCLUSIVELY FOR IEEE MEMBERS**



**PIC: EVENT POSTER**

## 2 IEEE activities



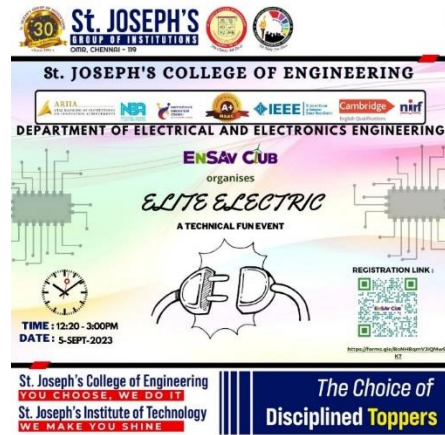
PIC: EVENT POSTER

In celebration of Engineers Day, **IEEE SJCE SB**, in collaboration with the IEEE Sairam Institute of Technology Student branch chapter, is thrilled to present "A **Webinar Session**", on the topic of EMPOWER UP-Building bridges to success". The event featured a distinguished speaker, **Mr. Elanchezhayan Ragavan, Founder and CEO of Socialzog and digital market consultant**, who delivered a captivating presentation on the topic "Empowerup - Building bridges to success." This enlightening session took place on the **16th of September 2023**, from **6 PM to 7 PM**, and attracted a vibrant audience of approximately 80 participants. It was an occasion to celebrate engineering excellence and explore the vital role and the opportunities beyond placements in the current era. The topic was very exciting and informative to the students, to know that placements are not the one and only option. Exemplifying the commitment to knowledge dissemination and engineering excellence that Engineers Day celebrates.

## 2 CLUB activities

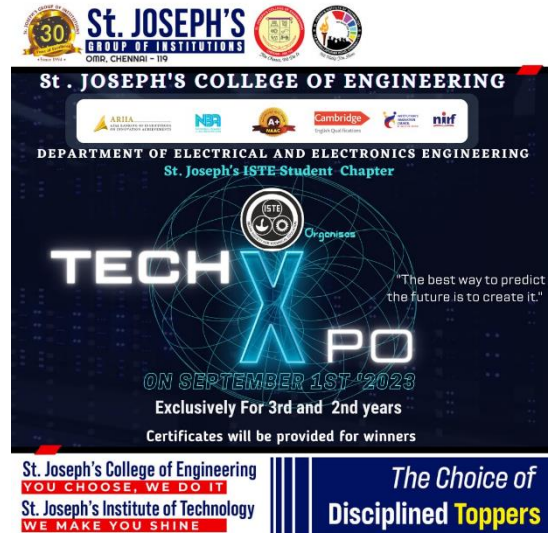
St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **ENSAV CLUB** organized a technical event "**ELITE ELECTRIC**" on **05-SEPTEMBER-2023**.. This exclusive event started at **12:20PM** with all the members of our club. The event was started and the exploring the hidden talent of our Students. The rules of the event were explained before each round. Participants with higher score were shortlisted for further rounds and finally we declare top three winners. They were honoured 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.





PIC: EVENT POSTER

2 ISTE activity



PIC: EVENT POSTER

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **St. Joseph's ISTE Student chapter** organized a technical event "TECHXPO" on **04/09/2023**. This exclusive event started at **12:20 PM** with all the members of our club. Abiding the famous quote "It may be a little thing, until kindles the World" the event started exploring the hidden talent of our students through this event. The rules of the event were explained before the event starts. Participants with higher score were shortlisted for further rounds and finally we declared top three winners. They were honoured with Merit certificates for their outstanding contributions during the event. The event continued with the enthusiasm of our students. The program ended with a photo session.

## 2 Seminar for Women



PIC: EVENT PHOTO

Date: Sep 12, 2023

Seminar on **“Personality Development, Grooming and Hygiene & Body language”** was conducted by the **Department of Electrical and Electronics Engineering, St. Joseph’s College of Engineering** in association with **Brand Touch and Analytics**, sponsored by **Whisper and Gillette Venus**. The resource person is Ms. Mary, Event organizer and motivational speaker. The seminar focused on the practical aspects of grooming and its importance in the workplace. Over 300 students attended the seminar and were also awarded participation certificate along with gift hampers from Whisper and Gillette. Feedback was collected from the participants about the program and it was observed that the program was useful and informative.

## 2 VOCABULARY TEST SERIES

30 St. JOSEPH'S COLLEGE OF ENGINEERING  
CIRCUIT CITY CAMPUS  
CHENNAI - 60

Department of Electrical and Electronics Engineering  
&  
LINGUAL CLUB  
CONDUCTS  
ONLINE  
WORD POWER VOCABULARY TEST SERIES-  
SEASON II  
TEST 9 - MAKING UP A STORY

TEST LINK & QR CODE  
<https://forms.gle/tafcaC9fhtesSRnkigW9>

DATE & TIME  
SEPTEMBER 01  
7 PM TO 8 PM

JOIN US TAKE OUR ONLINE TEST AND ACHIEVE YOUR LEARNING DREAM

St. Joseph's College of Engineering  
YOU CHOOSE, WE DO IT  
St. Joseph's Institute of Technology  
WE MAKE YOU SHINE

The Choice of  
Disciplined Toppers

Our department of Electrical and Electronics Engineering, Lingual Clique club has organized word power vocabulary test series for the students on 1/9/23,8/9/23. The test series helped the students to improve their communication skills.

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2 Student Achievement



PIC: POSTER

Student project Received fund of Rs.65000 from Leaf H private limited for the project proposal Smart LPG monitoring system.


Sanjay Sampathkumar, Shyam Sundar J and Sivaharish under the mentorship of Dr.Jayarama Pradeep

3 FDP

1. Dr.T.V.Narmadha Participated in 2 weeks international virtual FDP on innovative research opportunities and applications of data science and industry 5.0 paradigm organised by SRM institute of Science and technology on 18.8.23 to 31.8.23

2. FDP on smart grid and Integration of Distributed generation on 28.8.23 to 1.9.23 organised by NITTTR chandigarh

1. Dr.Jayarama Pradeep	13. Mr. R.Sreekanth
	14. Mr. H Umesh Prabhu

	 <p><b>St. JOSEPH'S COLLEGE OF ENGINEERING</b> DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING</p> <p>Organizes FACULTY DEVELOPMENT PROGRAM ON <b>"Smart Grid and Integration of Distributed Generation"</b> Date: 28/08/2023 to 01/09/2023</p> <p>In Association with National Institute of Technical Teachers Training &amp; Research (NITTTR) at Bhopal, Chandigarh.</p> <p>St. Joseph's College of Engineering YOU CHOOSE, WE DO IT St. Joseph's Institute of Technology WE MAKE YOU SHINE</p> <p>The Choice of <b>Disciplined Toppers</b></p> <p><i>PIC: EVENT POSTER</i></p>	<table border="1"> <tr> <td>2. Dr. M.Ramesh Babu</td> <td>15. Ms.S.Gomathi</td> </tr> <tr> <td>3. Dr.V.Chamundeeswari</td> <td>16. Mr.S.S.Harish</td> </tr> <tr> <td>4. Dr.M.Venmathi</td> <td>17. Mr. A.Sadeesh Kumar</td> </tr> <tr> <td>5. Dr.V.Krishna kumar</td> <td>18. Mr.S.Sivakumar</td> </tr> <tr> <td>6. Dr.P.Velmurugan</td> <td>19. Mr. H.Prasad</td> </tr> <tr> <td>7. Dr.S.Sridharan</td> <td>20. Mr. S.Nishant</td> </tr> <tr> <td>8. Ms.R.G.Nirmala</td> <td>21. Dr.P.Anbarasan</td> </tr> <tr> <td>9. Mr.R. Elanthirayan</td> <td>22. Dr.M.Anitha</td> </tr> <tr> <td>10. Mr. C.Venkatesh Kumar</td> <td>23. Mr.R.Siddhardhan</td> </tr> <tr> <td>11. Mr.N.Jeyaprakash</td> <td>24. Ms.C. Ramadevi</td> </tr> <tr> <td>12. Ms.S.P.Vedavalli</td> <td></td> </tr> </table>	2. Dr. M.Ramesh Babu	15. Ms.S.Gomathi	3. Dr.V.Chamundeeswari	16. Mr.S.S.Harish	4. Dr.M.Venmathi	17. Mr. A.Sadeesh Kumar	5. Dr.V.Krishna kumar	18. Mr.S.Sivakumar	6. Dr.P.Velmurugan	19. Mr. H.Prasad	7. Dr.S.Sridharan	20. Mr. S.Nishant	8. Ms.R.G.Nirmala	21. Dr.P.Anbarasan	9. Mr.R. Elanthirayan	22. Dr.M.Anitha	10. Mr. C.Venkatesh Kumar	23. Mr.R.Siddhardhan	11. Mr.N.Jeyaprakash	24. Ms.C. Ramadevi	12. Ms.S.P.Vedavalli	
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12. Ms.S.P.Vedavalli																								
3	Faculty awards and recognitions	Mr.R.Sreekanth Acted as a resource person at Meenakshi College of Engineering on 13 <sup>th</sup> September 2023																						
3	<h2>PLACEMENT DETAILS FOR THE MONTH OF SEPTEMBER 2023</h2>	<p><b>2020-2024 Batch</b></p> <p>Total No of students placed = 19 Students</p> <p>Total No of Offers = 20 Offers</p> <p>No of students having single offers = 18</p> <p>No of students having Double offers = 1</p> <p>No of students having Triple offers =</p> <p>No of students having Quadruple offers =</p>																						

Prepared By,

**DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING**

Sl. No.	Title	Detail					
I	Journal Publication	S.No	Name of Authors	Title of the paper	Published Month and year	Journal Name and proof link	
		1.	Journal of Intelligent Systems	S Smart robots' virus defense using data mining technology	September 22, 2023	<a href="https://drive.google.com/file/d/1dKjz5a3sWQATa/hGogv4hyjQRrAuR1YSs/view?usp=sharing">https://drive.google.com/file/d/1dKjz5a3sWQATa/hGogv4hyjQRrAuR1YSs/view?usp=sharing</a>	
II	Patent	S.No	Faculty Name	Published date	Published/Granted/Revenue generated Patent Ready to apply	Type (patent Or copyrights)	Proof
		1.	Dr.P.Deepa	01/09/2023	Published  Title :  A Novel Classification Model for Infected Tree Leaves Classification using Deep Convolutional Neural Network	Patent	<a href="https://drive.google.com/file/d/1fuU2CuO4yflLvPELxzyZVQAPNObd9DEM/view?usp=sharing">https://drive.google.com/file/d/1fuU2CuO4yflLvPELxzyZVQAPNObd9DEM/view?usp=sharing</a>

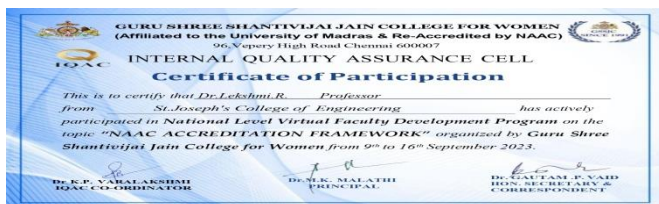


			2.	Dr.C.N.Gnana prakasam	01/09/2023	Published  Title : An Image processing and Deep Learning Based system for advertisement	Patent	<a href="https://drive.google.com/file/d/1QHk57MYWrg3d5XUgm06xG3dW5UAIPk5d/view?usp=sharing">https://drive.google.com/file/d/1QHk57MYWrg3d5XUgm06xG3dW5UAIPk5d/view?usp=sharing</a>
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**DEPARTMENT OF MBA**

<b>FACULTY PUBLICATION:</b>	<p>Ms.A.Ammupriuya has published a paper on “ A STUDY OF HUMAN RESOURCE DIGITAL TRANSFORMATION (HRDT) A PHENOMENON OF HR INNOVATION AND CHALLENGES ” in Humanities and Social Science Studies, Vol. 12, Issue 2, No. 22, July – December: 2 2023. ISSN 2319-829X</p> <p>Dr. Subalya S has published a paper on” EXPLORING THE SYNERGISTIC EFFECTS OF CSR AND ENVIRONMENTAL SUSTAINABILITY IN CHENNAI'S MANUFACTURING SPHERE: A LITERATURE REVIEW” in Humanities and Social Science Studies, Vol. 12, Issue 2, No. 22, July – December: 2023, ISSN 2319-829X</p>
<b>FACULTY AWARDS / RECOGNITIONS:</b>	<p>Dr.R.S.Lekshmi has received a Research Excellence Award from Scientific International Publishing House.</p>

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



Dr.R.S.Lekshmi has attended the FDP on “ “NAAC ACCREDITATION FRAMEWORK”” organized by Guru Shree Shantivijai Jain College for Women from 9<sup>th</sup> to 16<sup>th</sup> September 2023



Ms. Subalya S attended value added program on Writing Research Paper & Publication Ethics in online mode from 25 August 2023-11 September 2023 organised by Mahatma Jyotiba Phule Rohilkhand University, Bareilly



Subalya S , Assistant professor , St Joseph's College Of Engineering Has successfully completed One Week Faculty Development Programme on “From Research to Publication” from 04.09.2023 to 11.09.2023 organised by Adhyanman arts and science college for women.

Dr.K.Sampath, Dr.G.Nirmala and Dr.Angelin S Kiruba have completed the NPTEL Certification course pn Knowledge Management.

## INDUSTRIAL VISITS:



The industrial visit for the II year MBA students was destined to be at “Thirumala Milk Products Pvt. Ltd” on 16.09.2023. It is a dairy product manufacturing unit which is located in Madurantakam, Chennai. The visit sums up to about 36 students and lead by two faculty members Dr.Ajith and Dr.R.Monisha.



The industrial visit for the II-year MBA students was destined to be at “HatsunAgro Product Ltd (HAP)” on 16.09.2023. It is a dairy product manufacturing unit which is located in Kancheepuram, Chennai. The visit consists of 48 students along with the two faculty members Mr. Aravinth S and Dr.Angeline S.Kiruba.

Prepared By,

Dr. K.Sampath

Department Coordinator

Head of the Department





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**St. JOSEPH'S COLLEGE OF ENGINEERING**  
(An Autonomous Institution)  
**St. Joseph's Group of Institutions**

OMR, Chennai - 119




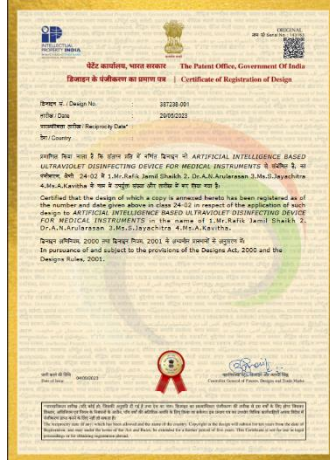
# DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	 <p style="text-align: center;"><b>Authors</b></p> <p style="text-align: center;"><b>Ms. J. Divya,</b> <b>Ms. P. Divyasindhu,</b> <b>Ms.L. Joan Reshmi</b> Published a paper in Scopus</p>	<p style="text-align: center;"><b><u>Student and Staff Paper Publication</u></b></p> <p><b>J. Divya, P. Divyasindhu, L. Joan Reshmi, "Flight Delay Prediction using GANN - An Improved Artificial Neural Network Model Integrating Genetic Algorithm," 2023 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), Chennai, India, 2023, doi: 10.1109/ACCAI58221.2023.10200001, Electronic ISBN:979-8-3503-1590-5, Print ISBN: 979-8-3503-1591-2, pp. 1-10, 2023. (Indexed in Scopus)</b></p> <p><b>Abstract:</b> One of the difficult situations in the business world, flight planning involves a lot of unpredictability. Such a situation happens when delays happen; they have a number of root causes and cost airline companies, providers, and travelers a lot of money. Airlines, airports, and passengers all suffer considerable financial and other losses as a result of flight delays. As a result, anticipating the possibility of a delay based on the characteristics of aircraft closes a critical information gap between airlines and passengers. The prediction analysis gleaned from this research can serve as a prototype for identifying operational factors that cause delays in any situation. The flight delay analysis is based on the scheduled arrival, departure, and actual time. This study thoroughly assesses models for forecasting flight delays under this circumstance. Machine learning techniques were used in research on predicting flight delays. The best approach for anticipating flight delays has been determined by comparing the performances of various algorithms. Lastly, a novel aviation delay method is optimized using an artificial neural network (ANN) in conjunction with a genetic algorithm (GA) in response to the important parameters discovered for flight delay prediction. The GANN model's performance has been confirmed, showing that it can accurately forecast delays with a score of 89%.</p>
2		<p style="text-align: center;"><b><u>Patent Published</u></b></p> <p><b>Title of the invention:</b> AI And Machine Learning Based Approach for Predicting Shortest Path in Google Map</p> <p><b>Name of Inventor:</b></p> <ol style="list-style-type: none"> <li>1) Dr. Sudeshna Surabhi</li> <li>2) <b>Dr A Tamizhselvi</b></li> <li>3) Vipin Y. Borole</li> <li>4) Sachin Sharma</li> <li>5) Dr.M.Sindhu</li> <li>6) Namdeo Dada Kapale</li> </ol>

**Dr. A. Tamizhselvi** Published  
an India Patent



		<p>7) Subharun Pal  8) Ambrish Gangal  9) Chahat Gulati  10) Dr. A.Senthilrajan  11) Pulicherla Siva Prasad  12) Thulasimani T</p> <p><b>Patent Application Number:</b> 202341044069 A  <b>Date of filing of Application:</b> 30/6/2023  <b>Publication Date:</b> 1/9/2023</p>
<b>Sl. No.</b>	<b>Photographs Captured During Event</b>	<b>Corresponding remarks in regarding the status of activity execution</b>
<p>3</p>	 <p style="text-align: center;"><b>Dr.R.Elavarasan</b></p>	<p style="text-align: center;"><b><u>Patent Published</u></b></p> <p><b>Title of the invention:</b> AI Block Chain-Based Secure Data Management System for Internet Of Things (IOT) Devices</p> <p><b>Name of Inventor:</b></p> <ol style="list-style-type: none"> <li>1. Sandip Kumar Singh</li> <li>2. <b>R. Elavarasan</b></li> <li>3. Dhawase Dhammjyoti Vithalrao</li> <li>4. Neha Sankhwar</li> <li>5. Dr. Sheshang Degadwala</li> <li>6. Haewon Byeon</li> </ol> <p><b>Patent Application Number:</b> 202311047378 A  <b>Date of filing of Application:</b> 14/7/2023  <b>Publication Date:</b> 11/8/2023</p>



**Ms.A.Kavitha**

**Published Design Patent**

**Patent Grant**

**Title of the invention:** Artificial Intelligence Based Ultraviolet Disinfecting Device for Medical Instruments



**Name of Inventor:**

- 1. Mr. Rafik Jamil Shaikh
- 2. Dr. A.N. Arularasan
- 3. Ms. S. Jayachitra
- 4. Ms. A. Kavitha


**Design Number:** 387238-001

**Date of filing of Application:** 29/5/2023

**Grant Date:** 04/09/2023

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution										
4	 <p style="text-align: center;"><b>Sample FDP Certificate</b></p>	<p style="text-align: center;"><b>Seminar/ FDP Attended by Faculty</b></p> <table border="1" data-bbox="680 245 1938 547"> <thead> <tr> <th>S.No</th> <th>Title of the FDP</th> <th>Name of the Staff</th> <th>Conducted By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>One Week National Level Faculty Development Program on Cloud Infrastructure</td> <td>Dr.S.Sumathi Mr.K.R.Radhakrishnan Ms. A. Kavitha Ms. R. Shoba</td> <td>St. Joseph's College of Engineering in Collaboration with Brainovision Solutions India Pvt Ltd and AICTE.</td> <td>21-08-23 to 25-08-23 (5 days)</td> </tr> </tbody> </table>	S.No	Title of the FDP	Name of the Staff	Conducted By	Date	1.	One Week National Level Faculty Development Program on Cloud Infrastructure	Dr.S.Sumathi Mr.K.R.Radhakrishnan Ms. A. Kavitha Ms. R. Shoba	St. Joseph's College of Engineering in Collaboration with Brainovision Solutions India Pvt Ltd and AICTE.	21-08-23 to 25-08-23 (5 days)
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5	 <p style="text-align: center;"><b>Sample FDP Coordinator Certificate</b></p>	<p style="text-align: center;"><b>FDP Organized</b></p> <div style="border: 1px solid black; padding: 10px;"> <p><b>Title of the Workshop/FDP:</b> One Week National Level Faculty Development Program on Cloud Infrastructure</p> <p><b>Conducted by:</b> St. Joseph's College of Engineering in Collaboration with Brainovision Solutions India Pvt Ltd and AICTE.</p> <p><b>Date:</b> 21-08-23 to 25-08-23</p> <p><b>Coordinators:</b> Ms.G.Latha Selvi Dr.V.Muthulakshmi Ms.M.Janani</p> <p><b>No of Participants:</b> 40</p> </div>										

**DEPARTMENT OF MATHEMATICS AND ENGLISH**

Events	Remarks					
<b>FDP/Workshop/Conference</b>						
	S.No	Name of the staff	Title of FDP / Workshop	Organized by	Mode	From
	1	Dr.Priyadharshini P	Mechanics of Effect Manuscript Drafting and Publications Process -FDP	Eudoxia Research University - ICER	Online	18-09-2023
	<p><b>Publications(only published) details</b></p> <ol style="list-style-type: none"> <li>1. Sai Kumari, N. and <b>Sudhakar, K.S.</b>, TAPPI J. 22(9): 599(2023). <a href="https://doi.org/10.32964/TJ22.9.599">https://doi.org/10.32964/TJ22.9.599</a> DOI: <a href="https://doi.org/10.32964/TJ22.9.599">https://doi.org/10.32964/TJ22.9.599</a>, SCIE</li> <li>2. Prabhu, S., <b>M. Arulperumjothi</b>, Muhammad Usman Ghani, Muhammad Imran, S. Salu, and Bibin K. Jose. 2023. "Computational Analysis of Some More Rectangular Tessellations of Kekulenes and Their Molecular Characterizations" Molecules 28, no. 18: 6625. <a href="https://doi.org/10.3390/molecules28186625">https://doi.org/10.3390/molecules28186625</a> , SCIE</li> <li>3. Sudha, S., <b>B. Shoba</b>, A. Rajkumar, and Broumi Said. "Bipolar Triangular Neutrosophic Chromatic Numbers with the Application of traffic light system." International Journal of Neutrosophic Science 22, no. 2 (2023), SCOPUS</li> </ol>					

**DEPARTMENT OF SCIENCE**

<b>Sl. No.</b>	<b>Events</b>	<b>Remarks</b>
9	Awards/Prize won by students / Staff	<p><b>Reviewers:</b>            Dr. K. Jayamoorthy has acted as reviewer for the following reputed journals.</p> <ol style="list-style-type: none"> <li>1. Environmental Advances– September 2023</li> <li>2. Mini-Reviews in Organic Chemistry – September 2023</li> <li>3. Journal of Saudi Chemical Society – September 2023</li> <li>4. Journal of Fluorescence – September 2023</li> </ol>
11	Publications(only published) details	<ol style="list-style-type: none"> <li>1. Dr. G. Sasikumar Published an article titled “Chemical, Pharmacological, and Theoretical Aspects of Some Transition Metal(II) Complexes Derived from Pyrrole Azine Schiff Base” in “ACS omega”. 2023, 8, 38, 34458–34470, <a href="https://doi.org/10.1021/acsomega.3c02860">https://doi.org/10.1021/acsomega.3c02860</a></li> <li>2. Dr. P. Saravanan, Dr. P. Suresh, Dr. J. Sharmila Published an article titled “Development and characterization of DGEBA-APTES-ZrO<sub>2</sub>” in “International Journal Of Polymer Analysis And Characterization”. <a href="https://doi.org/10.1080/1023666X.2023.2254034">https://doi.org/10.1080/1023666X.2023.2254034</a></li> <li>3. Dr. N.R. Rajagopalan published an article titled “Thermal management of PV panel through the circulation of a nano-MgO/ water-based nanofluid” in “Materials Today: Proceedings” <a href="https://doi.org/10.1016/j.matpr.2023.09.001">https://doi.org/10.1016/j.matpr.2023.09.001</a>.</li> <li>4. Dr. S. Rama Published an article titled “Studies on the Nucleation, Photoluminescence, and Photoconductivity of Semi-Organic Lithium Fumarate Crystals ” in “Crystal research and Technology”. <a href="https://doi.org/10.1002/crat.202300112">https://doi.org/10.1002/crat.202300112</a></li> <li>5. Dr. S. Manikandan , Dr. P. Krishnan published an article titled “Synthesis, growth, structural, and optical properties of benzotriazolium oxalate dihydrate (BTO) single crystal” in “Journal of Material Science- Materials for electronics” 2023, 34: 1855, <a href="https://doi.org/10.1007/s10854-023-11240-w">https://doi.org/10.1007/s10854-023-11240-w</a></li> </ol> <p><b>PATENTS PUBLISHED</b></p> <ol style="list-style-type: none"> <li>1. Dr. P. Saravanan, Dr. G. Sasikumar published a patent titled “Performance analysis and determination of heavy metals used by industrial effluents” – dt. 01.09.2023, issue 35/2023.</li> </ol>



		2. Dr. N.R. Rajagopalan, Dr. N. Punitha, Dr. V. Swarnalatha, Dr. S. M. Prakash published a patent titled “Industrial Wastewater Treatment Technology In Petroleum And Chemical Industrial” – dt. 01.09.2023, issue 35/2023..
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