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



MARCH 2024
DEPARTMENT OF ADS

S.No.	Title of the Events and Photographs	Details of the Event
1.	COLLABARATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS	-
2.	INDUSTRIAL VISIT	<p>Our Department Second year students had an Industrial Visit to “Cloud Logic” on 13th , 14th and 15th March 2024, Pondicherry.</p> <p>Students had an real time experience in Microsoft Azure Cloud platform and working experience on the Projects.</p>

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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE
 & DATA SCIENCE**
INDUSTRIAL VISIT
CLOUD LOGIC

13 MARCH 2024
 NO : 27&28, Bajani Madam Street,
 Thanthi Periyar Nagar, Puducherry -605005

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*The Choice of
 Disciplined Toppers*

3.

GUEST LECTURE

Guest lecture was delivered for the II year ADS students on 21.03.2024 on the topic Un-Packing App Development, Data Management, Cloud Solution and DevOps Methodologies delivered by Ananth S S Associate Engineer (DevOps) .

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Guest Lecture

MR. Ananth S S
 Associate Engineer (DevOps)
 Presidio Company

TOPICS
 Unpacking App Development, Data Management,
 Cloud Solutions, DevOps Methodologies

21 March 2024

ADS(A,B,C)
 2nd Year

Basil, Placement Block

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Guest lecture Brochure

4.	ADS CLUB ACTIVITY	-
5.	FDP/WORKSHOP/GUEST LECTURE/ CONFERENCE/HACKATHON	<p>Our Department Staff Mr. Naveen P, Assistant Professor has been invited for a Guest Lecture on “AI in Excel” for the Department of Computer Science and Engineering students of NARAYANAGURU COLLEGE OF ENGINEERING, KANAYAKUMARI DISTRICT, TAMIL NADU.</p>



NARAYANAGURU
COLLEGE OF ENGINEERING

An ISO 9001-2008 Certified Institution, Accredited By NAAC
Approved by AICTE, Affiliated to Anna University, Chennai
Recognised Under Section 2(f) of the UGC Act, 1956
Manjalmoodu, (Via) Kuzhithurai, Kanyakumari Dist,
Tamilnadu, Pin:629151



Department of Computer Science and Engineering

Organizing

Guest Lecture on

“AI IN EXCEL”



11:00am to 12:00pm
Venue: Computer Lab II

Mr. Naveen
Assistant professor,
Department of AI & DS,
St. Joseph's College of Engineering,
Chennai.



Resource Person

CHAIRMAN
Mr. Balaji Sidharth

PRINCIPAL
Dr. M Siva Pragash, ME, Ph. D

CONVENOR
Dr. L Nisha Evangelin ME, Ph. D
HOD/ CSE

Our Department Staff Ms. Sathya V, Assistant Professor has participated in 7 days national level FDP on python.

	 <p>STAR INTERNATIONAL Foundation for Research and Education <small>(Registered Under Indian Trust Act, ISO Certified and 12AA & 80G Approved Organisation)</small> <small>Tiruchengode-637211, Namakkal-Dt, Tamil Nadu, India</small></p> <p><i>e-Certificate of Recognition</i></p> <p>This is to certify that Prof/Dr/Mr/Ms SATHYA V, Assistant Professor , has actively participated in “ 7 DAYS NATIONAL LEVEL FDP ON PYTHON ” organized by Star International Foundation for Research and Education on 19.03.2024 to 25.03.2024.</p> <p><i>Dr.S. Sekar</i> Dr.S. Sekar Founder / Managing Trustee</p> <p><small>Certificate ID DKDTHQ-CE001451</small></p>	
<p>6.</p>	<p>COMPETITIONS ATTENDED BY STUDENTS</p>	<p>Our Department Third Year student Ms. JEEVITHA M has been selected as AWS CLOUD CAPTAIN in INDIA Region consecutively for the Second Time.</p> <p style="text-align: right;">□</p>



7.

STAFF CONFERENCE PRESENTATION and PATENT PUBLISHED

Our department staff Ms. Jayasri R, Assitant Professor, has published a patent in Title : Real – Time Rendering of Hyper Realistic Interactive Environments in Virtual Reality Using Neuro-Adaptive Generative AI.


(12) PATENT APPLICATION PUBLICATION (21) Application No.202441015088 A
 (19) INDIA
 (22) Date of filing of Application :29/02/2024 (43) Publication Date : 15/03/2024

(54) Title of the invention : REAL-TIME RENDERING OF HYPER-REALISTIC INTERACTIVE ENVIRONMENTS IN VIRTUAL REALITY USING NEURO-ADAPTIVE GENERATIVE AI

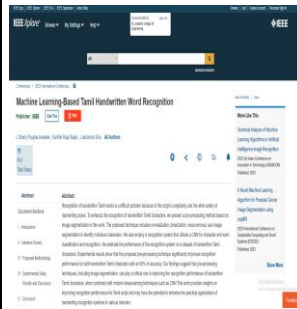
<p>(51) International classification :G06N0020000000, G06F0003010000, G06T0015000000, G06T0019000000, G06N0003080000</p> <p>(86) International Application No : NA Filing Date : NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number : NA Filing Date : NA</p> <p>(62) Divisional to Application Number : NA Filing Date : NA</p>	<p>(71)Name of Applicant : 1)Dr. J.DEVAGNANAM Address of Applicant :Assistant Professor Department of Computer Applications Faculty of science and Humanities SRM Institute of Science and Technology Kattankulathur, Chengalpattu(D.T.),TN,India -----</p> <p>2)S.ANITHA RAJATHI 3)VLJENDRA SINGH TANWAR 4)Jayasri R 5)SUNIL KUMAR SONI 6)Dr. Sunita Rani Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. J.DEVAGNANAM Address of Applicant :Assistant Professor Department of Computer Applications Faculty of science and Humanities SRM Institute of Science and Technology Kattankulathur, Chengalpattu(D.T.),TN,India -----</p> <p>2)S.ANITHA RAJATHI Address of Applicant :Assistant Professor, Department of Computer Science and Business System, R.M.D. Engineering College, Kavaraipettai, Thiruvallur(D.t), TN, India - 601206 -----</p> <p>3)VLJENDRA SINGH TANWAR Address of Applicant :House no 9-D-9, mahaveer nagar 3rd pincode 324005 -----</p> <p>4)Jayasri R Address of Applicant :St. Joseph's College of Engineering, OMR, 600119 -----</p> <p>5)SUNIL KUMAR SONI Address of Applicant :Assistant Professor SCSE, Galgotias University Plot No Sector A Yamuna Expressway Greater Noida Gautam Buddh Nagar Uttar Pradesh, pin- 201310 -----</p> <p>6)Dr. Sunita Rani Address of Applicant :Associate professor Galgotias University Plot No Sector A Yamuna Expressway Greater Noida Gautam Buddh Nagar Uttar Pradesh, pin- 201310, -----</p>
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Copy of certificate Ms. Jayasri R

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1.	<p>Ms. S. Anitha Published a design patent</p> 	<p>Title of the invention : IoT and Artificial Intelligence based detection and prevention of Plant disease with smart drip irrigation system using block chain technology and deep learning</p> <p>Name Of the Inventors :</p> <p>Dr. Telugu Giri Babu Dr. Abhisek Saha Deepika S Dr. Sucheta Mukhejee Dr. Bruheen Chekrabortty Dr. N. B. Mahesh Kumar Ms. S. Anitha Dr. P. D. Selvam Dr. T. Jagadeesh K. Govarthanambikai</p> <p>Patent Application Number: 202441017814 Date of filing of Application : 12.032024 Date of Issue: 29.3.2024</p>

2.







**Co-author:
Dr. Sherly Puspha
Annabel. L**
Published a paper in
Scopus
Indexed Conference

Staff Paper Publication

Annabel, L. S. P., Rajan, K. R., & Siva, L. (2023, December). Machine Learning-Based Tamil Handwritten Word Recognition. In 2023 International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI) (pp. 1-7). IEEE.

Recognition of handwritten Tamil words is a difficult problem because of the script's complexity and the wide variety of handwriting styles. To enhance the recognition of handwritten Tamil characters, we present a pre-processing method based on image segmentation in this work. The proposed technique includes normalization, binarization, noise removal, and image segmentation to identify individual characters. We also employ a recognition system that utilizes a CNN for character and word classification and recognition. We estimate the performance of the recognition system on a dataset of handwritten Tamil characters. Experimental results show that the proposed pre-processing technique significantly improves recognition performance for both handwritten Tamil characters with an 95% of accuracy. Our findings suggest that pre-processing techniques, including image segmentation, can play a critical role in improving the recognition performance of handwritten Tamil characters, when combined with modern deep-learning techniques such as CNN. This work provides insights on improving recognition performance for Tamil script and may have the potential to enhance the practical applications of handwriting recognition systems in various domains.

DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p style="text-align: center;">FDP/WORKSHOP/CONFERENCE</p> <div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;"> <p>NPTEL-AICTE Faculty Development Programme</p> <p><small>(Funded by the MoE, Govt. of India)</small></p> </div>  </div> <div style="text-align: center; margin-top: 20px;"> <p>This certificate is awarded to</p> <p>ANTONY CATHERINE FLORA L</p> <p>for successfully completing the course</p> <p>Roadmap for Patent Creation</p> <p>with a consolidated score of 42 %</p> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  <small>Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras</small> </div> <div style="text-align: center;">  <small>(Jan-Mar 2024)</small> </div> </div> <div style="background-color: #f4a460; padding: 5px; margin-top: 10px; display: flex; justify-content: space-between;"> Roll No: NPTEL24GE29S644106192 Duration of NPTEL course : 8 Weeks </div> <div style="background-color: #800000; color: white; padding: 5px; margin-top: 5px; font-size: 8px;"> <p>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 16th Nov, 2023, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2023</p> </div>	<p>Dr. L. Antony Catherine Flora attended 8 weeks online FDP conducted by NPTEL-AICTE on Roadmap for patent creation</p>
2.	<p style="text-align: center;">INDUSTRIAL PROJECTS DONE BY STUDENTS</p>	-
3.	<p style="text-align: center;">PUBLICATIONS(ONLY PUBLISHED) DETAILS</p>	<ol style="list-style-type: none"> 1. Reviewer certificate is awarded from Biotechnology and Bioengineering Journal, Wiley Publications, March 2024. 2. Reviewer certificate is awarded from Journal of Food Process Engineering, Wiley Publications, March 2024

WILEY

Reviewer Certificate

This certificate is awarded to

BASKAR GURUNATHAN

for serving as a reviewer for

BIOTECHNOLOGY AND BIOENGINEERING

BIOTECHNOLOGY
BIOENGINEERING

Thank you for reviewing 1 manuscript in 2023

14 March 2024
Date

Douglas S. Clark
Editor-In-Chief

Copy of certificate Dr.G. Baskar

3. Dr. M. Chamundeeswari published a paper on 'Optimization of hematite nanoparticles from natural ore as novel imaging agents: A Green Chemistry approach' in *Biotechnology and Applied Biochemistry*
4. Dr. M. Chamundeeswari published a paper 'Acute toxicology study of organic dyes-degraded water on adult zebrafish as human model for direct utility' in *Environment, Development and Sustainability*

WILEY

Reviewer Certificate

This certificate is awarded to

BASKAR GURUNATHAN

for serving as a reviewer for

JOURNAL OF FOOD PROCESS ENGINEERING

Journal of
Food Process Engineering

Thank you for reviewing 1 manuscript in 2023

1 March 2024

Date

V.M. (Bala) Balasub

Editor-In-Chief

Copy of certificate Dr.G. Baskar

> [Biotechnol Appl Biochem](#). 2024 Mar 14. doi: 10.1002/bab.2577. Online ahead of print.

Optimization of hematite nanoparticles from natural ore as novel imaging agents: A Green Chemistry approach

Albert Asha ¹, Munusamy Chamundeeswari ², Rayappan Mary Nancy Flora ³,
Kuppusamy Ravichandran Preethy ²

Affiliations + expand

PMID: 38486404 DOI: [10.1002/bab.2577](#)

Abstract


In this research, we propose an environmentally friendly method for producing hematite nanoparticles (H-NPs) from natural hematite ore, focusing on their application as efficient contrast agents in x-ray and computed tomography (CT) imaging for medical purposes. The process involves the reduction of iron oxide within the ore to attain the desired hematite phase, crucial for synthesizing H-NPs. To ensure sustainability, we adopted a Green Chemistry approach, utilizing a combination of carbon soot and limestone for the purification process, thereby achieving eco-conscious production. The produced H-NPs were thoroughly characterized using various analytical techniques, such as x-ray fluorescence (XRF), x-ray diffraction (XRD), Fourier transmission infrared spectroscopy (FT-IR), and FESEM-EDX (field emission scanning electron microscopy-energy-dispersive x-ray spectroscopy). XRD analysis

Copy of paper published by Dr. M. Chamundeeswari

Acute toxicology study of organic dyes-degraded water on adult zebrafish as human model for direct utility

Published: 15 March 2024

(2024) [Cite this article](#)

[J. Sharmila](#), [S. Suresh](#) & [M. Chamundeeswari](#) 

 11 Accesses [Explore all metrics](#) →

Abstract

The present study aims at assessing the toxicity and efficacy of organic dyes-degraded water for direct utility using Zebra fish (Zf) as a human model since it shares 70% of its genes with human beings. The estimated lethal dose (LD50) value for the dyes-degraded

Copy of paper published by Dr. M. Chamundeeswari

4.

STAFF CONFERENCE PRESENTATION

1. Presented a paper in International Conference on Sustainable Agriculture, Igdır University, Turkey during March 1-3, 2024.
2. Presented a paper in Second International Conference on Artificial Intelligence and Machine Learning Applications organized by K.S.Rangasamy College of Technology,



Tamil Nadu, India during March 15 - 16, 2024.

Copy of certificate Dr.G. Baskar



CERTIFICATE OF PARTICIPATION

PROUDLY AWARDED TO

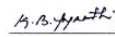
SIVAKUMAR R,GOKULSANKAR S,S,ARAVAZHI T A,BASKAR
G,MAHESWARAN S,KAVIN KUMAR K

FOR THE MANUSCRIPT TITLED

INVESTIGATION ON OPTIMIZATION OF BIODIESEL
PRODUCTION USING MACHINE LEARNING TECHNIQUES

participated in the **Second International Conference on
Artificial Intelligence and Machine Learning Applications
(AIMLA)** during March 15 - 16, 2024
in **K.S.Rangasamy College of Technology, Tamil Nadu, India**




Dr.K.B.Jayanthi
Organizing Chair


Dr.C.Rajasekaran
Organizing Secretary


Dr.R.Gopalakrishnan
Principal, KSRTC

Certificate ID : KSRTC0324ECINCB057

Copy of certificate Dr.G. Baskar

DEPARTMENT OF CHEMICAL ENGINEERING


S.No.	Title of the Events and Photographs	Details of the Event
1.	COLLABARATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS	<p>On 19th March a MOU was signed with Phosphene AI Ltd organized by Mr.R.Lavanya, Assistant Professor, Department of chemical Engineering.</p> <p>On 21st March a MOU was Signed with Grm Care Engineering Pvt Ltd, arranged byb Dr.S.Sujatha, Assistant Professor, Department of Chemical Engineering.</p>
2.	INDUSTRIAL VISIT	On 27th March II Year students visited Neyveli Lignite Power Plant with 12 Girls and 30 boys along with Dr.S.Vinod Kumar and Mrs.R.Lavanya.
3.	NGO	On March 16 th IIIrd Year Students visited Little Hearts Society
4.	GUEST LECTURE	<p>On 12th March Mr.Chiranjeevi, Chief Manager (Retd), ONGC-MRPL delivered a guest lecture on “ <i>An Overview of Petroleum Refinery</i>”</p> <p>On 18th March Department of Chemical Engineering organised an International Guest Lecture on “ <i>Sustainable Development – Challenges and Oppertunitines</i>” by Dr. Sreenath Subrahmanyam , Director, Institute of Bioecosciences, Virginia, United states of America.</p> <p>On 19th March Department alumni Mr.Deni Allan from 2018-22 Batch delivered a Online International Webinar on “ <i>Carrier Guidance for Higher Studies</i>” deliverd in Library AV Hall.</p> <p>On 21st March an MOU-Activity Guest Lecture was organised empowering the entrepreneurship by MS.Porkodi, Lead Consultant, Green care Engineering in the topic “<i>Latest Engineering Technology and Best Practices</i>”</p>
5.	COMPETITIONS ATTENDED BY STUDENTS	Mr.Sanjay &Mr.Santhosh of IInd Year Chemical has paticipated in Nandha Engineering College Technical Symposium and won

		<p>Best Paper Award on 25th March Mr.Sandeep Ka & Mr.Kaviamudhan of IInd Year Chemical has attended the 10th National conference on (STEER -202) and won IInd Place in Run Baby Run event organised on 25th March by Sri Sivasubramaniya Nadar College of Engineering, Chennai.</p> <p>Ms. Ishana Karan & Ms Samiha IIIrd Year has presented a poster on “<i>Enhancing Sustainability and Antioxidant Potetial: Starch-Based Edible Films infused with Anthocyanin</i>“ in Poster Palooza - Offline event happened on 25th &26th of March organised by Sri Sivasubramaniya Nadar College of Engineering, Chennai.</p>
<p>6.</p>	<p>AWARDS/PRIZE WON BY STUDENTS</p>	<p>Mr. Selva Kumar Raja ,IV Year, Department of Chemical Engineering has been recognized for NPTEL Discipline star award for the period Jul - Dec 2023.</p> <p>Mr.Varun, IV Year has Cleared Gate Exam consequently for the second time.</p> <p>Mr.Sanjay &Mr.Santhosh of IInd Year Chemical has paticipated in Nandha Engineering College Technical Symposium and won Best Paper Award on 25th March</p> <p>Mr.Sandeep Ka & Mr.Kaviamudhan of IInd Year Chemical has attended the 10th National conference on (STEER -202) and won IInd Place in Run Baby Run event organised on 25th March by Sri Sivasubramaniya Nadar College of Engineering, Chennai.</p> <p>In College Sports and Cultural Event III & II Year students Participated and won 8 Prizes from varioous ebents.</p>

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	2 Days Workshop - Machine Learning With Hands-On Python	<p>Date : 21st & 22nd – 03-2024</p> <p>Venue : Placement block</p> <p>Nature of Event : Workshop</p> <p>Participants : III year Students</p> <p>Organized by : Department of CSE</p> <p>Objective :</p> <ul style="list-style-type: none"> • To support students in developing their computational thinking skills; it helps children to engage in open ended problems which require the use of decomposition, modelling and algorithms. <p>Outcome :</p> <ul style="list-style-type: none"> • To increase your chances of getting a job and a lucrative career. • Along with improving your professional skills and knowledge, your confidence gets boosted and it reflects in your personality.



2	Two-Day AWS Workshop On Data Analytics	
		<p>Date : 21st & 22nd – 03-2024</p> <p>Venue : CSE lab</p> <p>Nature of Event : Two-Day AWS Workshop On Data Analytics</p> <p>Participants : III year Students</p> <p>Organized by : Department of CSE</p> <p>Objective :</p> <ul style="list-style-type: none"> Participants gained practical exercises and real-world case studies. Attendees gained proficiency in data preprocessing, analysis, and visualization, fostering collaboration and empowering them for data-driven projects. <p>Outcome :</p> <ul style="list-style-type: none"> To increase your chances of getting a job and a lucrative career. Along with improving your professional skills and knowledge, your confidence gets boosted and it reflects in your personality.
3	Club Activity – Designvista '24	
		<p>Date : 13.03.2024</p> <p>Venue : Library AV hall</p> <p>Nature of Event : Club Activity – Designvista '24</p>



Participants : II & III year Students

Organized by : Department of CSE

Objective :

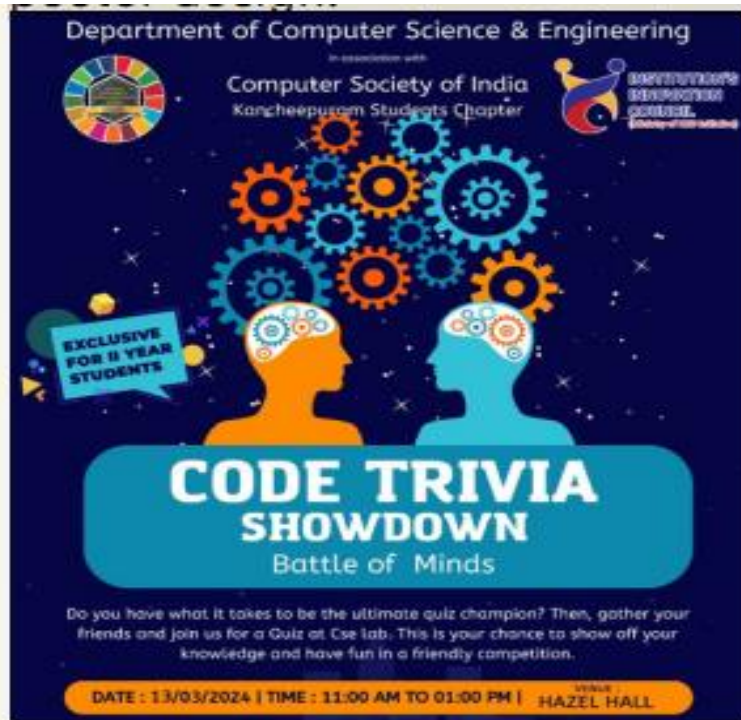
- To Dive into a world of vibrant posters, igniting inspiration and dialogue.
- Cutting-edge software and digital tools were harnessed to craft visually stunning posters that captivated and engaged audiences.

Outcome :

- The limitless possibilities of technology were explored, from dynamic animations to interactive elements, pushing the boundaries of traditional poster design.

4

CSI Event - CODE TRIVIA SHOWDOWN



Date : 13-3-24
Venue : HAZEL Hall – Placement block
Nature of Event : CSI Event - CODE TRIVIA SHOWDOWN
Participants : Engineering II & III year Students
Organized by : Department of CSE

Objective:

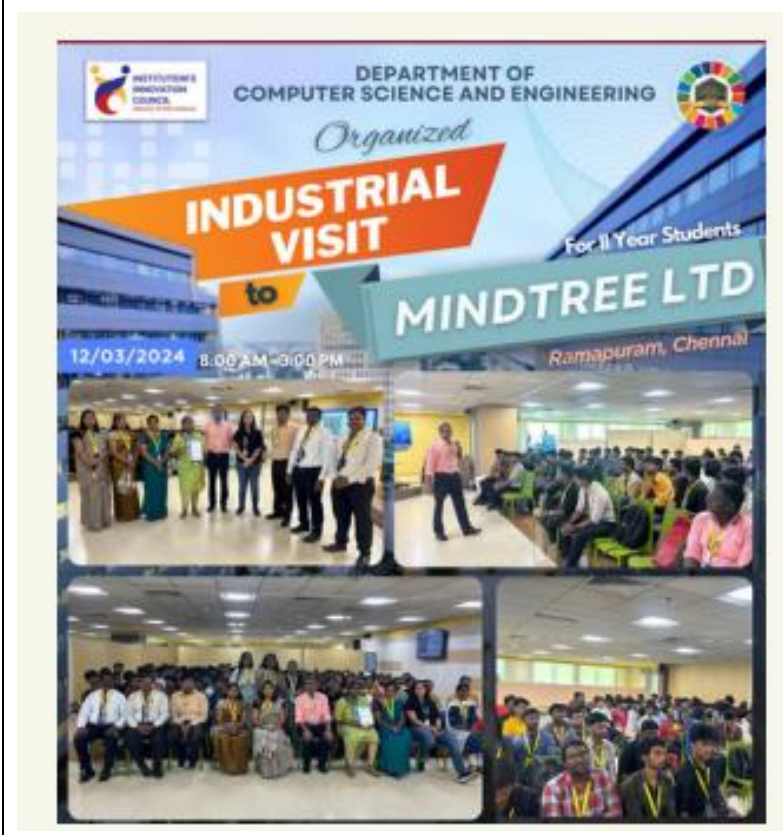
- The CODE TRIVIA SHOWDOWN sparked excitement with its interactive quiz competition.
- The event's dynamic format, coupled with Kahoot's engaging platform, created an atmosphere of lively competition and camaraderie.

Outcome:

- Participants engaged in diverse subjects, fostering camaraderie and leaving with a sense of accomplishment.

5

Industrial Visit - LTI Mindtree



Date : 12-3-24
Venue : LTI Mindtree
Nature of Event : Industrial Visit
Participants : III A, B & C year Students
Organized by : Department of CSE

- Objective:**
- Students get a firsthand look at how a real-world IT or technology company operates.
 - This exposure helps them understand industry practices, standards, and workflows.
 - Students gain insights into the technologies and tools used by LTI Mindtree in their operations.
 - This understanding can include software development methodologies, programming languages, project management tools, etc.

- Outcome:**
- Participants gain a deeper understanding of industry-specific concepts, technologies, and practices through direct observation and interaction with professionals.
 - Seeing real-world applications of theoretical concepts can enhance participants' learning experience and help bridge the gap between academic knowledge and practical implementation.

6

MOCK INTERVIEW – III year students



Date : 23-3-24
Venue : Placement block
Nature of Event : Mock Interview
Participants : III year Students
Organized by : Department of CSE

Objective:

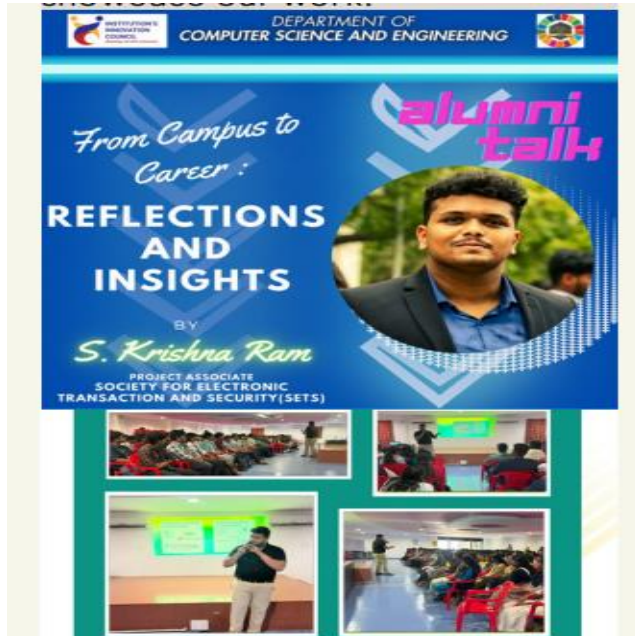
- The primary objective is to provide interviewees with a realistic simulation of a job interview.
- This allows them to practice their interviewing skills, refine their responses to common interview questions, and gain confidence in presenting themselves professionally.
- Alumni interviewers can provide valuable feedback and constructive criticism on interviewees' performance, including their communication skills, body language, and overall presentation.
- This feedback helps interviewees identify areas for improvement and refine their interview strategies.

Outcomes:

- Helps to practice and refine their interview skills in a safe and supportive environment.
- As a result, they become better prepared for real job interviews, which can increase their chances of success in securing employment opportunities.

7

ALUMNI TALK - From Campus To Career: Reflections And Insights"




Date : 23-3-24
Venue : Placement block -Basil hall
Nature of Event : Alumni Talk
Participants : Engineering III year Students
Organized by : Department of CSE

Objective:

- Alumni talks often aim to provide current students with valuable insights into various career paths, industries, and professional experiences.
- Alumni may share their career journeys, lessons learned, and advice for navigating the job market.
- Alumni talks can facilitate networking opportunities between current students and alumni.

Outcome:

- Alumni talks create opportunities for attendees to connect with alumni who may serve as valuable mentors, advisors, or contacts in their desired field.
- Building relationships with alumni can lead to internships, job opportunities, and professional connections that can benefit attendees throughout their careers.

8	ALUMNI TALK- Career Development: Full Stack Developer Mindset	
		<p>Date : 23-3-24 Venue : Placement block -Basil hall Nature of Event : Alumni Talk Participants : Engineering III year Students Organized by : Department of CSE</p> <p>Objective:</p> <ul style="list-style-type: none"> • Alumni talks often aim to provide current students with valuable insights into various career paths, industries, and professional experiences. • Alumni may share their career journeys, lessons learned, and advice for navigating the job market. • Alumni talks can facilitate networking opportunities between current students and alumni. <p>Outcome:</p> <ul style="list-style-type: none"> • Alumni talks create opportunities for attendees to connect with alumni who may serve as valuable mentors, advisors, or contacts in their desired field. • Building relationships with alumni can lead to internships, job opportunities, and professional connections that can benefit attendees throughout their careers.
9	ALUMNI TALK - "Embracing Change: Navigating Career Transitions and Achieving Success"	



Date : 13-3-24
Venue : CSE Lab
Nature of Event : Alumni Talk
Participants : Engineering III year Students
Organized by : Department of CSE

Objective:

- Alumni talks often aim to provide current students with valuable insights into various career paths, industries, and professional experiences.
- Alumni may share their career journeys, lessons learned, and advice for navigating the job market.
- Alumni talks can facilitate networking opportunities between current students and alumni.

Outcome:

- Alumni talks create opportunities for attendees to connect with alumni who may serve as valuable mentors, advisors, or contacts in their desired field.
- Building relationships with alumni can lead to internships, job opportunities, and professional connections that can benefit attendees throughout their careers.



Date : 21.03.2024

Venue : Perwinkle hall

Nature of Event : Guest lecture

Participants : Engineering II year Students

Organized by : Department of CSE

Objective:

- To impart specialized knowledge, expertise, or insights on a particular topic to the audience.
- Guest speakers often bring unique perspectives, research findings, or industry experience that can complement the existing curriculum and enhance students' understanding of the subject matter.

Outcomes:

- It gains new insights, information, and perspectives on the topic presented by the guest speaker.
- This enriches their understanding of the subject matter and expands their knowledge beyond what is covered in traditional coursework.

11

MOTIVATIONAL TALK- Software Industry Expectations From Budding Engineers



Date : 11.03.2024

Venue : Perwinkle hall

Nature of Event : Motivational Talk

Participants : Engineering II & III year Students

Organized by : Department of CSE

Objective:

- It aims to inspire individuals by sharing stories of perseverance, resilience, and success.
- The speaker may recount personal experiences or anecdotes of others who have overcome challenges and achieved their dreams, inspiring the audience to believe in their own potential.
- It provides encouragement and support to individuals who may be facing setbacks or challenges.

Outcomes:

- It ignites a sense of purpose and determination in individuals, motivating them to take action towards their goals.
- It boosts the confidence of audience members by reminding them of their strengths, capabilities, and potential for success.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1. IEEE Event 1. Events conducted:	Report
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The following events have been conducted during March 2024 at College Level



St. JOSEPH'S COLLEGE OF ENGINEERING

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ST. JOSEPH'S COLLEGE
OF ENGINEERING
STUDENT BRANCH CHAPTER



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

in association with
IEEE COMMUNICATION SOCIETY

Presents
GUEST LECTURE
on

**ENVISIONING DREAMS AND EMPOWERING
THOUGHTS**

by



Ms. Keerthana Seetharaman
CEO & FOUNDER OF
THE WRITING ARENA PUBLISHERS
IEEE PROCOMM SB CHAIRPERSON SSEC
YOUNG ACHIEVER AND WORLD RECORD HOLDER

01-03-2024

08:30am - 10:30am



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



The Choice of
Disciplined Toppers

TITLE : Envisioning Dreams and Empowering Thoughts

DATE : 2nd MARCH 2024

Envisioning dreams and empowering thoughts is a deeply personal and transformative process that can lead to fulfillment, growth, and positive change. Guest Lecture focused on some steps: **Clarifying Vision, Set SMART Goals, cultivate a Positive Mindset, Visualize Success, Take Inspired Action, Seek Inspiration and Learning, Practice Gratitude, Stay Persistent and Resilient.**

by

Ms. Keerthana Seetharaman
 CEO & FOUNDER OF
 THE WRITING ARENA PUBLISHERS
 IEEE PROCMM SB CHAIRPERSON SSEC
 YOUNG ACHIEVER AND WORLD RECORD HOLDER

Guest lecture focused on :

- Positive Thinking
- Goal Setting
- Empoweing thoughts
- Achieving professional success

Outcome :

- Induced self motivation
- Empowered thought towards goal setting

📅 01-03-2024 🕒 08:30am - 10:30am

Number of Students Benefitted: 35 IEEE members

2. ALUMNI TALK

Report



St. JOSEPH'S COLLEGE OF ENGINEERING

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St. JOSEPH'S COLLEGE OF ENGINEERING

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



**IN ASSOCIATION WITH
INSTITUTION'S INNOVATION COUNCIL**



ORGANIZES AN ALUMNI TALK
ON THE TOPIC



Arifa Banu A R
(Batch : 2018 - 2022)

Network Engineer
Atos Syntel
Chennai

**Exploring The Backbone of
Communication Networking
(for II year students)**



HAZEL HALL
02 MARCH 2024
10:30am to 12:20pm



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*The Choice of
Disciplined Toppers*

TITLE : Exploring the Backbone of Communication Networking

DATE : 2nd MARCH 2024

The Alumni Talk was about the

Backbone of Communication Networking briefing about the Fibre Optic Cables, **Network Switches and Routers, Internet Exchange Points (IXPs), Data Centers, Content Delivery Networks (CDNs), Network Security Measures, Wireless Backhaul Links**. It encompasses a diverse range of technologies and infrastructure components that work together to enable reliable, high-speed, and secure communication across local, regional, and global networks.

Number of Students Benefitted: 191



Arifa Banu A R
 (Batch : 2018 - 2022)
 Network Engineer
 Atos Syntel
 Chennai



**Alumni Talk
 Focused on :**

- Computer networking
- Industry relevance
- Placement insights
- Career implications

**Outcome of
 the Alumni Talk :**

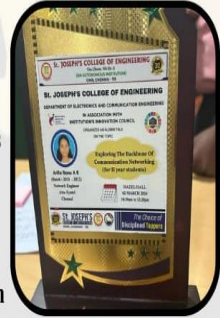
- Ventured issues in network security.
- Unfolded the essentials of communication networking.



02 MARCH 2024



10:20am to 12:20pm



3. OPTICA Event

Report

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
 IN ASSOCIATION WITH
 OPTICA
 STUDENT CHAPTER

FUN-L-TRIX
 AN ELECTRIFYING FUN-FILLED EVENT

EXCLUSIVELY FOR 2ND AND 3RD YEAR OPTICA MEMBERS

12TH MARCH 2024
 TUESDAY

ADMIN
 PLACEMENT HALL

09:40 AM -
 03:00 PM

REGISTER
 SOON!!



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The Choice of
 Disciplined Toppers

The OPTICA Student Chapter at St. Joseph's College of Engineering, in collaboration with the Department of Electronics and Communication Engineering, orchestrated a captivating event named FUN-L-TRIX tailored for second and third-year ECE students on March 12, 2024. The day unfolded with a gracious welcome from the Event Manager, establishing an uplifting atmosphere for the proceedings.

Over 35 teams participated in the event, Consisting of three members each, with three rounds in total. In the initial round, participants engage in a quiz ,leading to the shortlisting of 13 teams. The subsequent round involves a memory game, narrowing the field down to 5 teams for the next stage. The ultimate challenge unfolds in the final round a race to victory wherein three exceptional teams are crowned as the winner, the runner-up, and the second runner up. The event served as a platform for the participants to showcase their talents.

We express sincere gratitude to Dr. Niruban R, our esteemed Student Chapter Advisor, whose unwavering guidance and support were instrumental in the meticulous planning and seamless execution of the "FUN-L-TRIX" event. His mentorship significantly contributed to the resounding success of the occasion.



Number of Students Participated: 130



4. IEEE Event – ELECTRONICA'24

Report

Event Highlights:

1. Paper Jam Bash:
This round served as a platform to assess participants' technical acumen and problem-solving skills. A series of technical and

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IEEE Advancing Technology for Humanity | ST. JOSEPH'S COLLEGE OF ENGINEERING STUDENT BRANCH CHAPTER | IEEE AP-S Antennas and Propagation Society

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
 in association with
 IEEE ANTENNAS AND PROPAGATION SOCIETY
 presents

ELECTRONICA'24

PAPER JAM BASH
 UNVEIL THE UNKNOWN
 GO-NNECT
 SUPRISE ROUND

18-03-2024 MONDAY | ECE 1st Floor LAB | 09:40AM - 03:00 PM | Participants IEEE Member

St. JOSEPH'S GROUP OF INSTITUTIONS OMR, CHENNAI - 119 | The Choice of Disciplined Toppers

Event Shots:

aptitude questions were presented to the participants, challenging their understanding of core concepts in electronics and communication engineering.

2. Unveil the Unknown:

In this round, participants were tasked with identifying renowned technical personalities and their contributions to the field. This segment aimed to broaden participants' knowledge of influential figures within the electronics and communication engineering domain.

3. Co-nnect:

Co-nnect provided participants with a unique challenge of visual recognition and conceptual association. Participants were presented with images and tasked with connecting words to identify various technical components and concepts. This round fostered creativity and lateral thinking among participants.

4. SurpriseRound:

The surprise round added an element of excitement and unpredictability to the event. Participants were presented with challenges aimed at identifying achievers and their notable achievements in the field of electronics and communication engineering. This segment celebrated excellence and innovation within the community.

Conclusion:

The IEEE Student Membership Registration Drive proved to be a resounding success, providing registered IEEE members of the ECE department with a platform to test their knowledge, expand their horizons, and celebrate achievements within the field. The event fostered a spirit of camaraderie and intellectual exchange, reinforcing the significance of IEEE membership in advancing one's academic and professional pursuits in electronics and communication engineering.



5. GUEST LECTURE

Report

TITLE : An Insight into the beautiful world of Electronics

DATE : 25th MARCH 2024

A splendid lecture was given by Dr.S.Muttan, Professor of Eminence at Centre for Medical Electronics and former Head, Department of Electronics and Communication Engineering, College of Engineering Guindy, Anna University Chennai had held various positions namely Regional Director, Tiruchirappalli, besides holding several important positions such as Director i/c of Indian Institute of Informati Technology, Srirangam, Dean of Bharathidasan Institute of Technology, Tiruchirappalli, Additional Director, Constituent Colleges, former Director, Centre for Medical Electronics, Deputy Director, Centre for Affiliations, Deputy Director, Anna University Sports Board, Deputy Registrar (finance & Personnel), and Finance Officer i/c of Anna University Chennai and Green Guindy Officer. He also held the position of Chairman, NBA Working Committee of Anna University, Chennai overseeing the processes of imbining NBA culture at all levels and towards accreditation.

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DEPARTMENT OF
 ELECTRONICS AND COMMUNICATION ENGINEERING
Organizes
GUEST LECTURE
 ON
**AN INSIGHT INTO THE BEAUTIFUL WORLD OF
 ELECTRONICS**

Dr. S. MUTTAN
 Professor of Eminence,
 Centre for Medical Electronics, Dept of ECE
 College of Engineering, Anna University
 Chennai - 600025

25.03.24
 Monday

PLACEMENT
 BLOCK,
 HAZEL HALL

10:30 AM -
 12:30 PM

PARTICIPANTS
 II Year ECE Students

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Professor;s demonstration about the basics of electronics was awesome, found to be attractive and informative.

Number of Students Benefitted: 191

An Insight into the beautiful world of Electronics



Dr. S. Muttan
Professor of Eminence
Centre for Medical Electronics,
Dept. of ECE,
Anna University
Chennai-25

DATE: 25/3/2024
TIME: 10.00AM - 11.30AM



6. OPTICA -ELECTION'24

Report

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
 IN ASSOCIATION WITH
 OPTICA
 STUDENT CHAPTER
 PROUDLY PRESENTS

ELECTION'24

STAND UP, BE COUNTED!
 FOR 2ND YEAR OPTICA MEMBERS

- EVENT MANAGER
- TREASURER
- PUBLICITY OFFICER

DATE: 25.03.2024 (MONDAY)

VOTE!

St. JOSEPH'S
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Students casting Vote:



The OPTICA Student Chapter of St. Joseph's College of Engineering along with the Department of Electronics and Communication Engineering conducted the OPTICA STUDENT CHAPTER ELECTION to select the office bearers for the academic year 2024-2025. The day commenced with a warm welcome from the Publicity Officer, setting an encouraging tone for the day. Over 180 members from II year and III year polled their votes in this election.

A special thanks to our Student Chapter Advisor, Dr. Niruban R, for his invaluable guidance and support throughout the event's planning and execution. His mentorship played a significant role in the success of this election.

NEW OFFICE BEARERS



POST	NAME	CLASS
PRESIDENT	EBI MANUEL S R	III - A
VICE-PRESIDENT	KAITLYN P	III - B
SECRETARY	GILBERT SAM M A	III - A
TREASURER	SASIKANTH V	II - C
EVENT MANAGER	FRANESH T	II - A
PUBLICITY OFFICER	PRASHANTH S	II - B
EXECUTIVE	AJITHA M	II - A

7. MSME IDEA HACKATHON 3.0(Women) – FUND GRANT

Report



Department of ECE is proud to announce that the women students of our department has been selected for a total grant of Rs.23,50,000 in MSME IDEA HACKATHON 3.0 (Women) by MSME, Govt. of India to develop their idea into prototype. This national-level business model development challenge, organized by the Ministry of Micro Small and Medium Enterprises (MSME), Govt. of India, recognizes and empowers female innovators. This remarkable achievement is a testament to the students' talent, dedication, and innovative spirit.

III YEAR ECE STUDENTS				PROJECT MENTORS	
				Dr. S. RAJESHKANNAN Associate Professor & HOD Mr. M. LINGESWARAN Assistant Professor	
Grant: Rs.13,50,000/- Title : Integrated Bus System – Smart Transit Solution (IDEATNO12273)					
				Dr. S. RAJESHKANNAN Associate Professor & HOD Dr. P. EZHILARASI Professor	
Grant: Rs.10,00,000 Title : MEALSHARE (IDEATNO14131)					

8. MEMORANDUM OF UNDERSTANDING

Report

We're delighted to announce a new collaboration! Department of Electronics and Communication Engineering has signed a Memorandum of



Understanding (MOU) with the Tamil Nadu Advanced Technical Training Institute (TATTI).

This exciting partnership is especially meaningful because it's been championed by one of our own alumni, Mr. Joshua Gerard B.E., PGDHRM, MSW, (Ph.D.) Currently serving as the Chief Operating Officer of TATTI, Mr. Gerard's dedication has been instrumental in bringing this collaboration to life. We look forward to a successful partnership with TATTI!

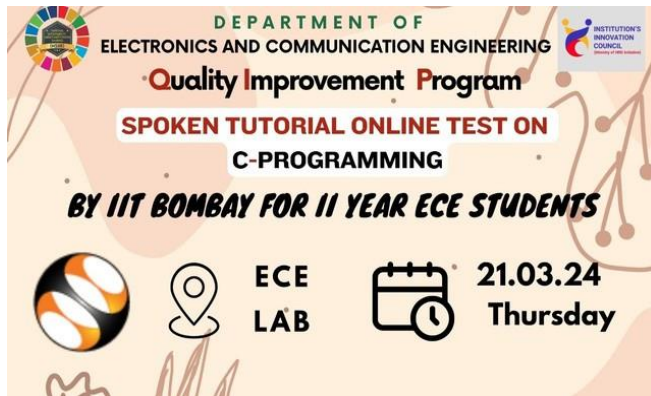
9. PROJECT PRESENTATION EVENT

Report

 <p>DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING</p> <p>PROUDLY PRESENTS</p> <h1>INNOVATION FEST</h1> <p>DISCOVERY SHOWCASE</p> <p>A PROJECT PRESENTATION EVENT FOR FINAL YEARS</p> <p>DATE: 22.03.2024 (FRIDAY)</p> <p>ECE DEPARTMENT LAB, FIRST FLOOR</p>	<p>The Innovation Fest Discovery Showcase ignited a spark of knowledge, collaboration, and inspiration. Final year Electronics and Communication Engineering students presented their projects, creating a platform for:</p> <p>Peer-to-Peer Learning: Students exchanged ideas, fostering a rich learning environment.</p> <p>Exposure to Cutting-Edge Trends: By showcasing innovative solutions, the event provided valuable insights into the future of the field.</p> <p>Empowering Future Leaders: Equipped with this knowledge, students are now positioned to drive advancements in their chosen areas.</p>	
<p>10. QIP-Quality Improvement Program</p>	<p>Report</p>	
 <p>DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING</p> <p>Quality Improvement Program</p> <p>SPOKEN TUTORIAL ONLINE TEST ON PYTHON-PROGRAMMING</p> <p>BY IIT BOMBAY FOR III YEAR ECE STUDENTS</p> <p>ECE LAB</p> <p>20.03.24 Wednesday</p>	<p>Third-year ECE students aced Python!</p> <p>They participated in the Spoken Tutorial Online Test on Python Programming, offered by the prestigious IIT Bombay. This interactive program equipped students with:</p> <p>Solid Python Foundation: Students gained a comprehensive understanding of Python's core concepts and fundamentals.</p> <p>Sharpened Programming Skills: The spoken tutorials, coupled with guidance from a renowned institution, helped students hone their Python programming abilities.</p>	

11. QIP-Quality Improvement Program

Report





Second-Year ECE Students Conquer C Programming!


By participating in the Spoken Tutorial Online Test on C-Programming, offered by IIT Bombay, second-year ECE students achieved a significant boost in their programming skills. This dynamic learning experience offered several advantages:

Heightened Proficiency: The interactive format of the Spoken Tutorials helped students solidify their understanding of C programming concepts, leading to a higher level of skill.

Tailored Learning: The program catered specifically to the needs of second-year students, ensuring they received relevant and targeted instruction.



<p>12. SEERA-Student Employability Enhancement Research Activities – I Year</p>	<p>Report</p>
 <p>The image shows a promotional banner for the SEERA Hackathon. At the top, it says 'DEPARTMENT OF SCIENCE AND HUMANITIES Organizes Student Employability Enhancement Research Activities SEERA'. Below that is the title 'How to hack a HACKATHON?'. There are four student portraits with names: Charon Velavan (III ECE-A), Ebi Manuel S R (III ECE-A), Benie Jaison A T (III ECE-A), and Akshay B (III ECE-A). At the bottom, it lists the date '05.03.24 Tuesday', location 'AV HALL Library', time '03:00 PM - 05:00 PM', and 'PARTICIPANTS 1 Year ECE Students'. Below the banner is a photograph of a student presenting at a podium in a lecture hall.</p>	<p>The main objective is to empower students with strategic insights, technical skills, and collaborative approaches to maximize their success and innovation during a hackathon.</p> <p>The Outcomes is this event empowered first-year ECE students to excel in hackathons byequipping them with a valuable toolkit for success:</p> <p>Practical Strategies: Students gained practical approaches to navigate the challenges of ahackathon.</p> <p>Technical Expertise: They honed their technical knowledge and skills, becoming more proficient in their field.</p> <p>Collaborative Mindset: The event fostered a collaborative spirit, enabling them to work effectively in teams.</p> <p>Deliver Impactful Solutions: Students will be able to develop and present solutions with real-world significance, even under time pressure.</p>
<p>13. SEERA-Student Employability Enhancement Research Activities -I Year</p>	<p>Report</p>
 <p>The image shows a promotional banner for the SEERA Embedded Systems event. At the top, it says 'DEPARTMENT OF SCIENCE AND HUMANITIES Organizes Student Employability Enhancement Research Activities SEERA'. Below that is the title 'NEW HORIZONS IN EMBEDDED SYSTEMS'. There are three student portraits with names: Abishai Sakthi Dev (III ECE-A), Gilbert Som M A (III ECE-A), and Vikram J (III ECE-C). To the right of the banner is a photograph of three students standing together on a stage.</p>	<p>The main objective is to enhance student employability by unveiling the next generation of embedded systems technologies, equipping students with practical skills and insights to excel in the rapidly evolving field.</p> <p>The outcomes in this events are :</p>

	<p>Enhanced Knowledge: First-year ECE students participating in SEERA gained a comprehensive understanding of emerging trends and technologies in embedded systems.</p> <p>Skill Development: The program equipped students with the necessary skills and knowledge to innovate and excel in the dynamic field of embedded systems.</p> <p>Practical Expertise: Through hands-on projects and research activities, students developed practical expertise in embedded systems.</p> <p>Increased Employability: SEERA graduates have a significant advantage in the job market due to their proficiency in embedded systems, making them highly sought-after by relevant industries.</p>	
<p>14. SEERA-Student Employability Enhancement Research Activities -II Year</p>	<p>Report</p>	
 <p>The poster for SEERA (Student Employability Enhancement Research Activities) is organized by the Department of Electronics and Communication Engineering. It features three speakers: Charan Velavan (III ECE-A), Gilbert Sam (III ECE-A), and Vishal Shankar (III ECE-C). The event is scheduled for 15.03.24 (Friday) in the ECE Block, from 03:00 PM to 05:00 PM. Participants are II Year ECE Students. The poster also includes the motto: 'PASSING DOWN WISDOM, FOSTERING INTERGENERATIONAL LEARNING, ENCOURAGING KNOWLEDGE EXCHANGE'.</p>	<p>The main objective is to facilitate a platform for the transfer of wisdom, fostering intergenerational learning, and promoting knowledge exchange to empower individuals of all ages with valuable insights.</p> <p>Second-year ECE students will engage in a mutually beneficial dialogue, sharing experiences, insights, and perspectives from diverse backgrounds.</p> <p>The outcomes are Bridging the Gap: A Flourishing Learning Community</p>	



This initiative will create a vibrant space for a harmonious exchange of knowledge. Second-year ECE students will engage in a mutually beneficial dialogue, sharing experiences, insights, and perspectives from diverse backgrounds. This will foster a rich learning environment that promotes:

Understanding: Students will gain a deeper understanding of different viewpoints and approaches.

Empathy: By sharing experiences, students will develop empathy for their peers. **Collaboration:** The exchange of ideas will spark collaboration and teamwork across age groups.

15. SEERA-Student Employability Enhancement Research Activities -III Year

Report

Jaswanthika R
Batch 2020-2024
Intern at Soliton

06.03.24 Wednesday | AV HALL Library | 03:00 PM - 05:00 PM | PARTICIPANTS III Year ECE Students

The objective is to secure a position at Soliton Company by mastering key concepts and skills in the related fields while actively engaging with industry professionals to establish a foothold within the company.



The outcomes is empowering students for impactful careers at Soliton Company and this event successfully guided third-year ECE students on how to strategically pursue opportunities within Soliton.

Strong Aptitude: Students gained valuable insights into demonstrating their natural talent and ability to learn.

Problem-Solving Prowess: The program emphasized strategies for showcasing their problem-solving skills, a crucial asset in the field.

C Programming Expertise: Students received actionable guidance on effectively presenting their C programming proficiency.



	<p>Clear and Confident Communication: The event equipped students with strategies to excel in communication, a vital skill for success at Soliton.</p>	
<p>16. SEERA-Student Employability Enhancement Research Activities -III Year</p>	<p>Report</p>	
 	<p>The main objective is to provide students with a clear and structured pathway to navigate their journey towards achieving success and fulfillment within the HCL organization.</p> <p>The outcomes of this event is to equipped third-year ECE students with a comprehensive roadmap for navigating their career paths within HCL:</p> <p>Skill Acquisition: Students pinpointed the essential skills needed for their desired career paths within HCL, ensuring they're well-equipped for future opportunities.</p> <p>Professional Networking: The workshop provided valuable guidance on building strong professional connections, a crucial element for career advancement.</p> <p>Pursue Career Goals with Clarity: Students were introduced to a variety of career paths and development programs offered by HCL, allowing them to chart their future within the organization.</p>	
<p>17. ALUMINI TALK</p>	<p>Report</p>	
	<p>The "Ready, Set, Soliton: Placement Preparation Program" alumni talk at the ECE department empowered third-year students with valuable</p>	



insights and strategies for their upcoming job search, specifically focusing on opportunities at Soliton Company.

Soliton Expertise: Alumni speakers provided firsthand knowledge about Soliton's work culture, expectations, and the recruitment process.

Enhanced Skills: Students gained practical guidance on developing and showcasing the key skills sought after by Soliton, such as technical expertise, problem-solving abilities, and strong communication.

Boosted Confidence: The event equipped students with the confidence and know-how to approach their job search strategically and make a positive impression on potential employers, particularly at Soliton.

18. INDUSTRIAL VISIT – II YEAR



Report



A recent industrial visit to seed for safety company by second-year ECE students with an invaluable learning experience. They gained firsthand knowledge of:

Bridging the Knowledge Gap: Students gained practical insights into the application of safety principles within the industry.

Exposure to Real-World Applications: Witnessing safety measures in helped students understand the theoretical concepts they learn in class.

		<p>Enhanced Problem-Solving Skills: Observing safety challenges and solutions in a real-world setting could spark innovative thinking and problem-solving approaches related to safety engineering.</p>	
<p>19. INDUSTRIAL VISIT-II Year</p>		<p>Report</p>	
		<p>Second-Year Electronics and Communication Engineering Students GetHands-On with Industrial Automation at Wiztech!</p> <p>A recent industrial visit to Wiztech Automation Solutions provided second-year ECE students with an invaluable learning experience. Theygained firsthand knowledge of:</p> <p>PLCs in Action: Students witnessed Programmable Logic Controllers (PLCs) being used in real-world industrial automation scenarios.</p> <p>Embedded Solutions Up Close: They observed how embedded systems are employed to optimize industrial processes.</p>	
<p>20. INDUSTRIAL VISIT-II Year</p>		<p>Report</p>	



ZeQube Unveils the Future of Manufacturing for Second-Year ECE C Students!

A recent industrial visit to ZeQube opened the door to the exciting world of advanced manufacturing for second-year ECE students. They gained valuable insights into cutting-edge processes, including:

CNC Machining in Action: Students witnessed firsthand the power and precision of Computer Numerical Control machining.

Injection Molding Demystified: They observed the intricate process of creating plastic parts through injection molding.

3D Printing Revolution: The visit provided a glimpse into the transformative capabilities of 3D printing technology.

21. BEST PAPER AWARD

Report



Two final year Electronics and Communication Engineering students, **Mr. R. Rahul and Mr. S. Yogeswaran**, were recognized for their outstanding research on Solar Photovoltaic Potential Estimation from Satellite images using Deep Learning at the **IEEE conference (ICITIII'24) held in Kottayam, Kerala on March 15th, 2024**. They received the prestigious best paper award.

The following staff member have participated in various FDP/Workshop conducted by other institutions during the month of March at National/International level.

S. No.	Name of the Staff	FDP/ Workshop Program Title	Host Institution	Date	Duration
1.	Mrs. Madhumitha	Antenna Concepts and Applications	SSN College of Engineering	13/03/2024 to 15/03/2024	3 days

23. Publications:

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


S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Indexing
1.	K.Jaspin, Shirley Selvan	Automated Classification of MR Brain Images based on Transfer learning Approach	ICCEBS 2023, IEEE Xplore	PP 1-6	March 2024

24. Patent Granted:

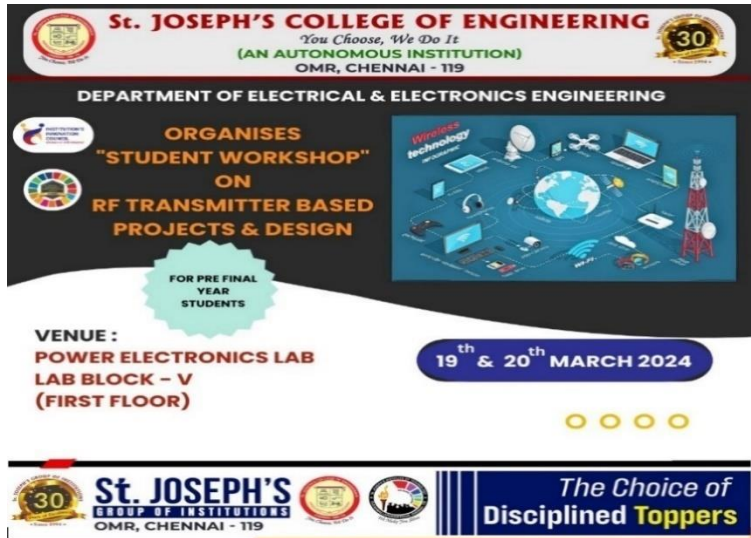
The following patent has been granted to the patentee for an invention entitled “Physiological value-based implanted medical device security system” as mentioned below.

S. No.	Country and Application No.	Name of the Applicants	Name of the Patentee	Patent Title	Date of Filing	Date of Publication	Date of Grant
1.	Indian Patent & 516092	Karthikeyan M V Dr. J. Martin Leo Manickam (ECE)	Karthikeyan M V Dr. J. Martin Leo Manickam (ECE)	Physiological value-based implanted medical device security system	24/1/2020	7/2/2020	27/2/2024

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Sl. No	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)	Criterion
	<p style="text-align: center;">Industrial visit- 2nd year</p>  <p style="text-align: center;"><i>PIC: EVENT PHOTO</i></p>	<p>As a part of industry institutional teaching, Department of EEE of St. Joseph's College of Engineering has organized an Industrial Visit to the North Chennai Thermal Power Plant Stage – II for the second year students on 12th, 13th and 14th March 2024.</p> <p>Gained knowledge on the operation of HP Turbine, LP Turbine, IP Turbine, Economizer, Heat Exchanger, Boiler, Electrostatic Precipitator, Condenser, Cooling Tower, Pulverizing Unit, Chimney, Coal Transfer System, DM Water Plant, and Control Systems.</p>	4

2	<p style="text-align: center;">Guest lecture</p>  <p style="text-align: center;"><i>PIC: EVENT POSTER</i></p>	<p>Our department organized a guest lecture for second year students on the topic “Impacts of over voltages in Power Systems” by Dr. V. Gowri Sree , Professor, Division of High Voltage Engineering, Department of Electrical and Electronics Engineering, College of Engineering, Anna University, Chennai at Hazel Hall on 11th March 2024. The guest lecture aims to provide examination of over voltages on power systems which includes study of their magnitudes, shapes, durations, and frequency and occurrence. The lecture detailed about lightning phenomenon, facts about lightening and some overvoltage protection techniques. The lecture was informative and inspiring, and students found it to be a valuable learning experience.</p>	4
3	<p style="text-align: center;">Student workshop - 3rd year</p>	<p>Our department organized students’ workshop for third year students on the topic “RF Transmitter based Projects & Design” on 19/3/24 & 20/3/24.</p> <p>Our faculty Dr.M.Venmathi, Mr.R.Elanthirayan, Ms.S.Gomathi, Ms.S.P.Vedavalli, gave session on RF Transmitter based Projects & Design followed by demo session in the afternoon.The students were able to build a RF transmitter and receiver</p>	4



PIC: EVENT POSTER

hardware after this session The session was very helpful for the students.

4 Student workshop - 3rd year

Our department organized students' workshop for third year students on the topic "**Basics of LabVIEW & Introduction to PLC**" on 19/3/24 & 20/3/24.

Our faculty **Mr.R.Siddhardhan, Mr.S.S.Harish, Ms.C.Ramadevi, Mr.S.Sivakumar** gave an introduction about LabVIEW programming and PLC. The session was very helpful for the students.

4

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

ORGANISES "STUDENT WORKSHOP" ON BASICS OF LABVIEW & INTRODUCTION TO PLC

FOR PRE FINAL YEAR STUDENTS

VENUE : CLASS ROOM NO . 35 BLOCK VII (FIRST FLOOR)

19th & 20th MARCH 2024

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

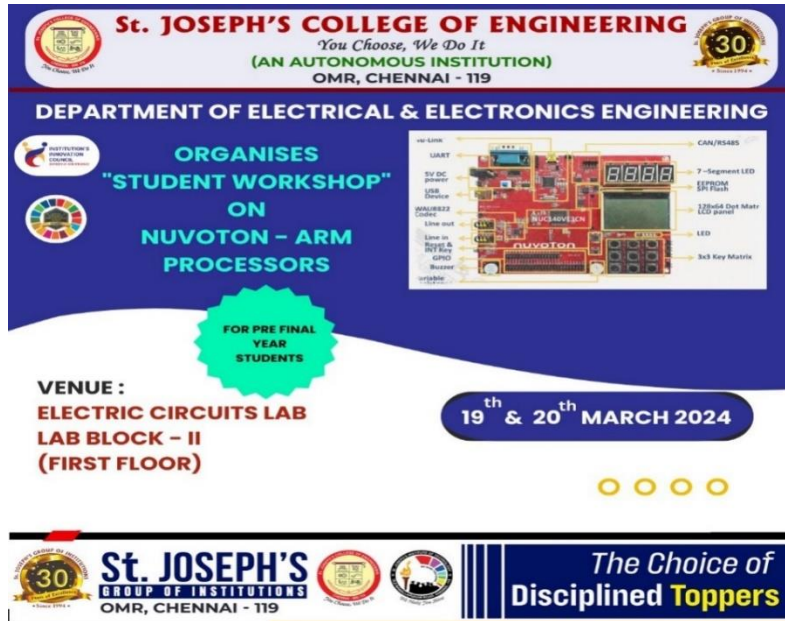
The Choice of Disciplined Toppers

PIC: EVENT POSTER

Student workshop - 3rd year

Our department organized students' workshop for third year students on the topic "**Nuvoton Arm Processor**" on 19/3/24 & 20/3/24.

Our faculty **Dr.V.Chamundeeswari, Dr.S.Sridharan, Mr.N.Jeyaprakash,** gave session on Nuvoton Arm processor followed by demo session in the afternoon. The session was very helpful for the students.



PIC: EVENT POSTER

PROJECT EXPO

Our department of Electrical and Electronics Engineering has organized **project expo by IV year students on 20th March 2024.**

All the students enthusiastically participated in the project expo and explained about their project to the 2nd and 3rd year students.

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Department of Electrical and Electronics Engineering
FINAL YEAR PROJECT EXPO
 20.03.2024

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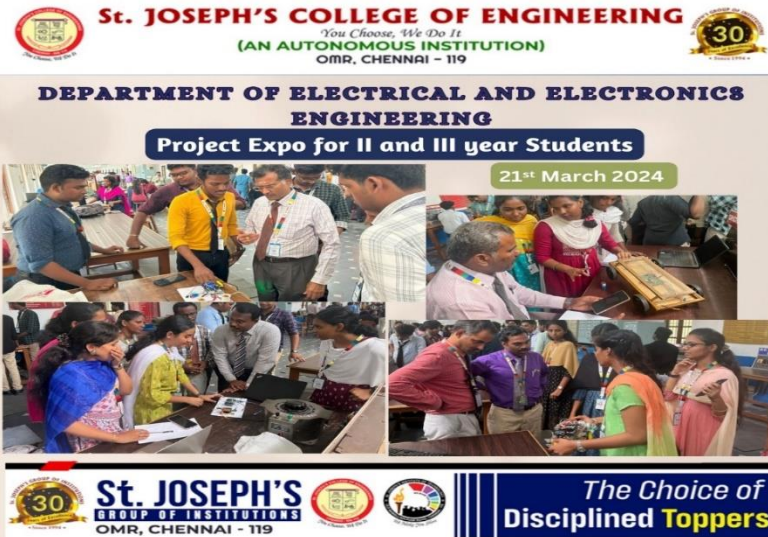
The Choice of
Disciplined Toppers

PIC: EVENT PHOTO

PROJECT EXPO

Our department of Electrical and Electronics Engineering has organized **project expo by II and III year students on 21st March 2024.**

All the students enthusiastically participated in the project expo and explained about their project

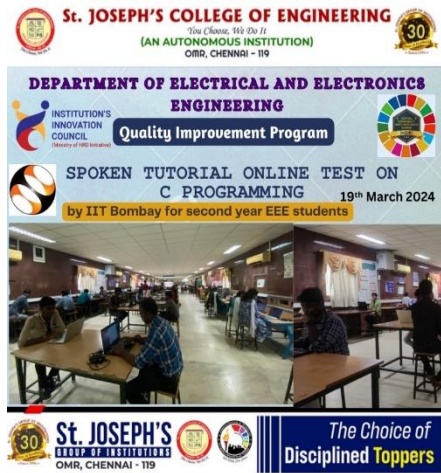


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SPOKEN TUTORIAL



Our department of Electrical and Electronics Engineering as part of quality improvement program has conducted spoken tutorial online test on open source platforms for all second year students on 19/03/2024 and third year students on 06/03/2024.



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IEEE activities

IEEE SIGHT SJCE SB - AG, in collaboration with IEEE St. Joseph's College of Engineering student chapter, orchestrated a profound offline gathering titled "IF SOMETHING ROBOTIC CAN HAVE RESPONSIBILITIES THEN IT SHOULD ALSO HAVE RIGHTS" on March 02, 2024. This impactful event, tailored for school students, was elegantly hosted at the esteemed premises of St. Joseph's College of Engineering. The occasion revolved around the intricate realms of robotics and electric vehicles, captivating the interest of a sizable cohort of nearly 200 enthusiastic students. Through meticulously curated sessions, the event served as a conduit for profound insights into these progressive fields, kindling a sense of wonder and inquiry among the attendees. The program



PIC: EVENT PHOTO

featured an array of captivating activities, including interactive demonstrations, immersive workshops, and enlightening expert presentations. These engagements facilitated a dynamic exchange of knowledge and offered hands-on experiences, thereby enriching the educational journey of the participating students.

IEEE activities

IEEE SIGHT SJCE SB - AG, in collaboration with IEEE St. Joseph's College of Engineering student chapter, held a momentous Inauguration on March 7, 2024, which attracted a gathering of approximately 180 participants. The event was graced by the presence of **Mr. Arun M, chairperson of IEEE MAS SIGHT AG**, who joined remotely to elucidate the myriad benefits of IEEE SIGHT. Additionally, representatives from the IEEE Vehicular Technology Society (VTS) were present to shed light on their organization's mission and objectives. Mr. Arun M's insightful



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discourse captivated the audience, **providing them with a clearer understanding of IEEE SIGHT's and VTS's roles in societal impact and technological advancement.** The interactive session fostered engagement among attendees, inspiring a unified vision towards leveraging IEEE SIGHT's and VTS's resources for positive change.

IEEE activities

On behalf of International Women's Day, IEEE St. Joseph's College of Engineering, in association with IEEE Women in Engineering Affinity Group, conducted WOMANSERA'23 on 11-03-2024. The chief guest for the event was **Mrs. Shiny Wilson, an Indian athlete, Padma Shri, and Arjuna Awardee, General manager at Food Corporation of India, Chennai.**

The Keynote Speaker 1 was **Ms. J. Divya, Head of the Department of Social Work, Psychotherapist, and Trainer at Patrician College of Arts and Science, Chennai.** Keynote Speaker 2 was **Ms. Deepa Vijayaraghavan, Director at PayPal and a women entrepreneur 3q- "Shevolve".** The topic discussed by Keynote Speaker 1 was "Unveiling the Power Within: Exploring Women's Emotional Intelligence," and



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Keynote Speaker 2 discussed "How to Build Personal Branding at Early Career?" .

The speakers were felicitated with mementos and shawls. Staff and students from the pre-final year, second year, and first year of St. Joseph's College of Engineering participated. The event also included a networking session, and the winners were certified with certificates and prizes. Approximately 200 students took part in this event held at the AV hall of St. Joseph's College of Engineering.

IEEE activities

The IEEE Photonics Society of St. Joseph's College of Engineering Conducted 'Cyber Ethics', a technical online mode webinar for 2nd and 3rd year EEE students, on March 11th, 2024. The event aimed to inspire and motivate students to explore the field of AI and Ethical considerations in AI and cybersecurity among enthusiasts and featured a keynote address by **Dr. Ripal Ranpara, Assistant Professor Atmiya University, and executive Board Member ACM2Y.** The event saw the cumulative participation of 30 students over Google Meet. The session was generally well-received by the participants and was very informative. Participants were also allowed to interact



PIC: EVENT PHOTO

with the speaker and get answers to their queries regarding the introduction to AI and cybersecurity and IEEE as a whole. E-certificates were provided to all who participated in the event.

IEEE activities

The IEEE Photonics Society of St. Joseph's College of Engineering Conducted 'Cyber Ethics', a technical online mode webinar for II and III year EEE students, on March 13th, 2024. The event aimed to inspire and motivate students to explore the field of Security and Privacy in the Internet of Medical things among enthusiasts and featured a keynote address by **Dr. Varun G Menon, Deputy Dean of Research and Development and Professor of Computer Science Engineering at SCMS School of Engineering and Technology, India; Secretary of IEEE Kochi subsection.** The event saw the cumulative participation of 25 students over Google Meet. The session was generally well-received by the participants and was very



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informative. Participants were also allowed to interact with the speaker and get answers to their queries regarding the introduction to the Internet of Medical Things and IEEE as a whole. E-certificates were provided to all who participated in the event.

IEEE activities

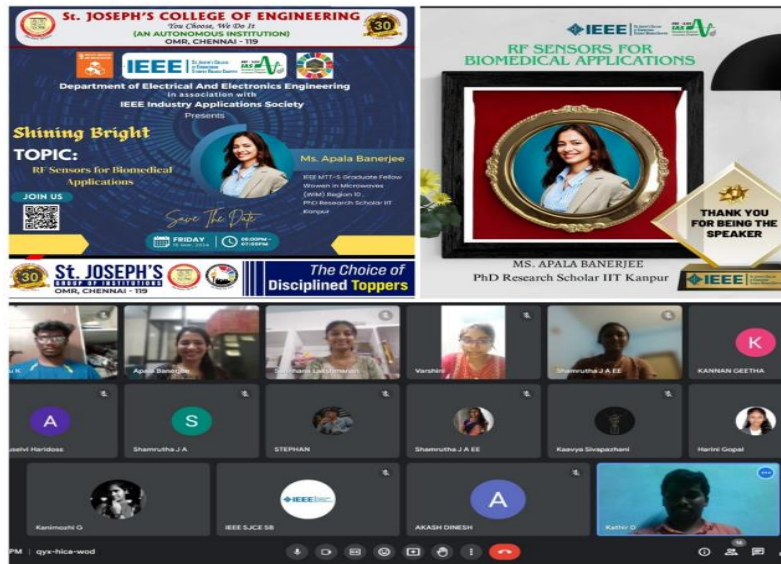
IEEE IAS SJCE SB in association with IEEE St. Joseph's College of Engineering student chapter conducted a webinar session "SHINING BRIGHT" on 02-03-2024. The topic for the session was "**MICRO INVERTER FOR ROOFTOP SOLAR PV SYSTEMS**" presented by **Mr. SIVARAMAN P, SMIEEE, Project Director IEEE ADSF SIGHT, IEEE PES YP I & E Subcommittee**. Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering participated. Certainly, he discussed from the basic PV system, the application of microinverters in rooftop solar PV systems, highlighting the significance of



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rooftop installation, individual module optimization, and the preferred locations for microinverter placement. Additionally, he compared the inverting ratings of 1000W and 1200W microinverters, emphasizing how strategic placement enhances overall system performance. Approximately 30+ students took part in this event over Google meet. The participants were rewarded with E-certificates. Appreciation Certificate and E- Memento was award to the speaker by the end of the session.

IEEE activities



PIC: EVENT POSTER and PHOTO

IEEE IAS SJCE SB in association with IEEE St. Joseph's College of Engineering student chapter conducted a webinar session "SHINING BRIGHT" on 15-03-2024. The topic for the session was "**RF Sensors for Biomedical Applications**" presented by **Ms. APALA BANERJEE, IEEE MTT-S Graduate Fellow, Women in Microwaves (WiM) Region 10, PhD Research Scholar IIT Kanpur**. Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering participated. Certainly, In the captivating world of biomedicine, RF sensors emerge as silent guardians, delicately monitoring vital signs, shaping the future of personalized healthcare and disease management. Approximately 40+ students took part in this event over Google meet. The participants were rewarded with E-certificates. Appreciation Certificate and E-Memento was award to the speaker by the end of the session.

IEEE activities



PIC: EVENT POSTER

The IEEE Photonics Society of St. Joseph's College of Engineering Conducted 'Photonics Pulse', a technical online mode webinar for 2nd and 3rd year EEE students, on March 20th, 2024. The event aimed to inspire and motivate students to explore the field of Internet of Things based future among enthusiasts and featured a keynote address by **Mohammed M. Alani** Researcher at Toronto Metropolitan University (Previously Ryerson University), Professor of Cybersecurity at Seneca Polytechnic, Toronto, Canada. The event saw the cumulative participation of 30 students over Google Meet. 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 the Preparing for an IoT-based Future: A Security Perspective and IEEE as a whole. E-certificates were provided to all who participated in the event.

4

IEEE activities

The IEEE Photonics Society of St. Joseph's College of Engineering Conducted 'Photonexus', a technical online mode webinar for II and III year EEE students, on March 16th, 2024. The event aimed to inspire and motivate students to explore the field of In-depth exploration of space applications among enthusiasts and featured a keynote address by **Prof. Naeema Nazar**, Assistant Professor at VISAT Engineering College IEEE Photonics Society Global

4



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Strategy Representative for India Kerala Student Branch Chapter Advisor of WIE, Comsoc. The event saw the cumulative participation of 23 students over Google Meet. 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 the In-depth exploration of space applications and IEEE as a whole. E-certificates were provided to all who participated in the event.

IEEE activities

IEEE SIGHT SJCE SB - AG, in conjunction with the IEEE St. Joseph's College of Engineering student chapter, orchestrated an eminent online colloquium titled "**SIGHT - INNOVATE - Benefits of SIGHT**" on March 17, 2024, under the auspices of **Niranjan Kumar Sethu Venkatraman** . This impactful session delved into the multifaceted advantages of vision, emphasizing its significance across various domains. Drawing insights from diverse perspectives, This session showcased groundbreaking developments in vision-related technologies. a significant portion of the session was dedicated to discussing the role of sight in promoting accessibility and inclusion. Ethical considerations surrounding sight-related technologies and interventions were a focal point of the session. Speakers deliberated on



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issues such as privacy concerns, algorithmic bias, and equitable access to vision-enhancing innovations. Moreover, the session addressed broader societal implications, including the potential socio-economic disparities arising from unequal access to sight-related resources and services. From technological breakthroughs to social and psychological well-being, sight plays a pivotal role in enriching human experiences and fostering inclusivity. Moving forward, continued research, innovation, and ethical deliberation are crucial to harnessing the full potential of sight for the betterment of society.

IEEE activities

IEEE PES SJCE SB- in association with IEEE St. Joseph's College of Engineering student chapter conducted a webinar session "FUTURE ABILITY SKILL" on 17/03/2024. the topic for the session was "**INDUSTRIAL APPLICATIONS OF AI IN REAL TIME**" presented by **Mr. Neavil Porus , Founder &CEO,AL developer ,Digital Marketing Growth Hacking** .Students from the pre-final year, and second year of the Department of Electrical and Electronics Engineering participated. The session focussed on predictive maintenance, quality control, process optimization, and safety enhancement. He highlighted AI's role in improving efficiency, reducing downtime, and enhancing safety measures. The webinar addressed challenges like data privacy and cybersecurity while exploring future trends. Attendees engaged in a Q&A session, gaining insights into practical implementation and innovation opportunities.



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Overall, the webinar provided valuable insights into leveraging AI for industrial advancements. Approximately 25+ students took part in this event over meet. The participants were rewarded with E-certificate as a token of appreciation -Memento was awarded to the speaker by the end of the session.

IEEE activities

IEEE Power Electronics Society Student Branch Chapter SJCE SB (SBC60101C) Organized A Webinar Session titled “**POWERPULSE**” on **March 12, 2024**. The topic for the session was “**Power Electronics in Renewable Energy Generation and Electric Vehicle Charging,**” presented by **Mr. N. Naufal**. Students and staff from the final year, pre-final year, and second year of the Department of Electrical and Electronics Engineering, as well as other college students and staff, participated. The session aimed to explore emerging trends, innovations, and challenges in the field of renewable systems, providing a platform for knowledge exchange and networking among



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professionals, researchers, and enthusiasts. Approximately 40+ participants joined this event on Gmeet. The participants were rewarded with E-certificates as a token of appreciation. A memento was presented to the speaker at the conclusion of the session.

2

IEEE activities

IEEE VTS SJCE SB, in conjunction with IEEE St. Joseph's College of Engineering student chapter, conducted a webinar titled **"INTERNET OF THINGS, ARTIFICIAL INTELLIGENCE, AND CYBERSECURITY: DRIVING INNOVATION AND SAFEGUARDING THE FUTURE OF CONNECTED AND AUTONOMOUS SYSTEMS"** on March 13, 2024, at 2:00 PM GMT (IST 7:30 PM). **Prof. Quist-Aphetsi Kester, Chair of the National Cyber Intelligence and Cyber Defence Research Project**, presented insights into the pivotal role of IoT, AI, and cybersecurity in shaping the future of connected and autonomous systems. The session



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addressed crucial aspects such as data privacy, cybersecurity threats, and risk mitigation strategies. Attendees engaged in an interactive Q&A session, gaining valuable insights into practical implementations and emerging trends. Certificates of appreciation were awarded to participants, and Prof. Kester was honored with a memento in recognition of his informative presentation, marking the successful conclusion of the event.

IEEE Activities

IEEE Spectrum of St. Joseph's College of Engineering, conducted a Spectrum session. The speaker, **.Ms. Shabana Asmeen**, spoke on **“What if the biggest AI fear is AI fear itself”** on **11th March, 2024**. The speaker enlightened us with the idea that “In recent years, the rise of artificial intelligence has triggered a wave of apprehension and fear regarding its potential implications for humanity. From sci-fi dystopias to ethical concerns about autonomous decision-making, the fear of AI has become a prominent topic in both public discourse and academic circles. However,



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is this fear justified, or are we simply afraid of the unknown?"

IEEE activities

IEEE Spectrum of St. Joseph's College of Engineering, conducted a Spectrum session. The speaker, **Mr. A. Balaji**, spoke on "**Multiphysics modelling of electrical motors**" on **15th March, 2024**. The speaker enlightened us with the idea that "a comprehensive overview of advanced simulation techniques for optimizing motor performance. He demonstrated the integration of electromagnetic, thermal, and structural analyses to enhance motor efficiency and durability. He explored real-world applications and explained how Multiphysics modelling can drive innovation in electric motor design. The session was held between 6:00 p.m. and 7:00 p.m. A total of 27

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IEEE | St. Joseph's College of Engineering | INSTITUTE OF INNOVATION COLLABORATION | IEEE SPECTRUM

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
In association with
 IEEE STUDENT BRANCH CHAPTER
presents
COVER TO COVER
 (IEEE SPECTRUM READING)

MULTIPHYSICS MODELING OF ELECTRICAL MOTORS

TO JOIN

15 MARCH 2024

7:30 PM TO 8:30 PM

<http://meet.google.com/qdm-brac-qra>

BALAJI A
 III - EEE

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participants participated and had an amazing experience during the meet, thoroughly enjoying the entire session. The speaker was honored with an E-memento.

IEEE activities



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IEEE Spectrum of St. Joseph's College of Engineering, conducted a Spectrum session. The speaker, **Mr. D. Yashwanth**, spoke on "**AI Everywhere, all at once**" on **18th March, 2024**. The speaker enlightened us with the idea that "as leading experts delve into AI's far-reaching impact across industries and daily life. Discover how AI is revolutionizing healthcare, finance, and more, while also exploring the ethical considerations and future directions of this technology. Don't miss this opportunity to gain valuable insights into AI's pervasive influence and its implications for the future." The session was held between 6:00 p.m. and 7:00 p.m.. A total of 27 participants participated and had an amazing experience during the meet, thoroughly enjoying the entire session. The speaker was honored with an E-memento.

4

IEEE Activities

IEEE Spectrum of St. Joseph's College of Engineering, conducted a Spectrum session. The speaker, **Ms. L. Sanchana** spoke on "**The state of art of Human-Drone Interaction**" on **19th March, 2024**. The speaker enlightened us with the idea that ".Human-drone interaction (HDI) is a burgeoning field at the intersection of human-computer interaction (HCI) and robotics, revolutionizing various sectors including transportation, entertainment, and emergency response. As drones become increasingly prevalent in our daily lives, understanding how humans and drones can effectively collaborate and communicate is

4



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essential for maximizing their potential while ensuring safety and usability. The session was held between 6:00 p.m. and 7:00 p.m. A total of 27 participants participated and had an amazing experience during the meet, thoroughly enjoying the entire session. The speaker was honored with an E-memento.

Club Activities

SOCIAL AWARENESS CLUB, from the Dept. of **Electrical and Electronics Engineering** organized a flameless cooking event for women's day celebration named " **Arctic Appetites** " for all department female staffs and students in the offline mode. The participants made almost successful attempt to demonstrate their originality and creativity in cooking. The participants of this event should prepare food without fire. Participants were shortlisted based on taste, nutritional value, creativity, number of dishes and presentation. They were honored with certificates

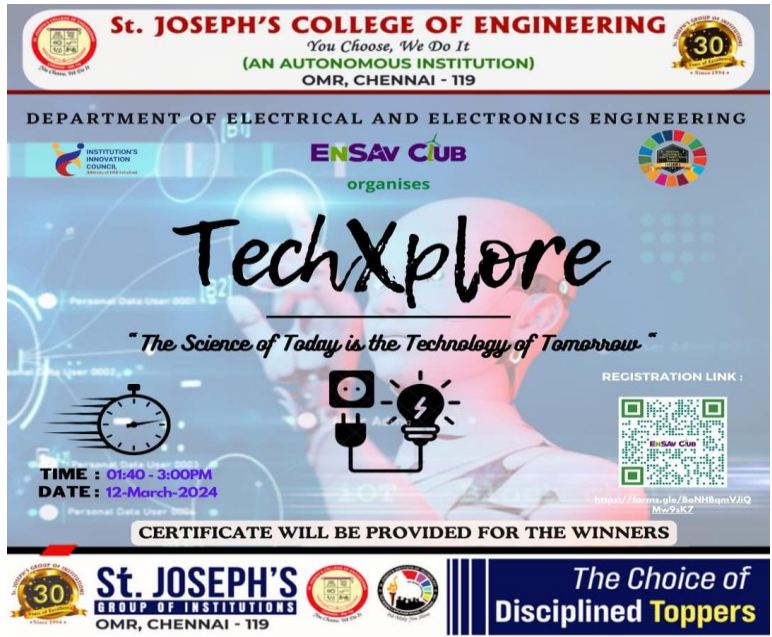


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and a cash prize for their outstanding contributions during the event. The event continued with the enthusiasm of our students. The program ended with a photo session

Club Activities

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) ENSAV CLUB organized a technical event “TECHXPLORE” on **12-MARCH-2024**. 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.

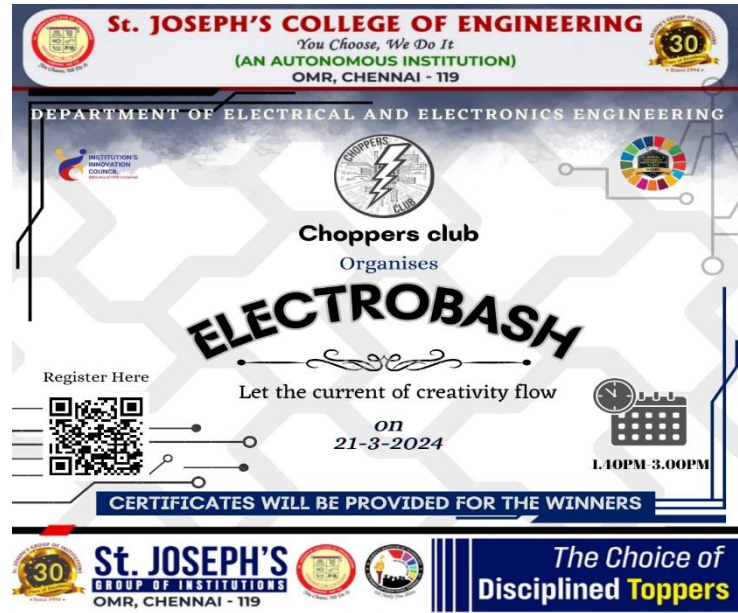


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Club Activities

CHOPPERS CLUB, from the Dept of Electrical and Electronics Engineering organized a technical event named " **ELECTOBASH** " for II years in the offline mode on 21/3/24. The participants made almost successful attempt to demonstrate their originality.

EVENT NAME: ELECTROBASH



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ROUND 1 : KNOWLEDGE BEE –

Technical Quiz was conducted to the participants.

ROUND 2 : CONNECTIONS –

Connections related to electrical and electronics .

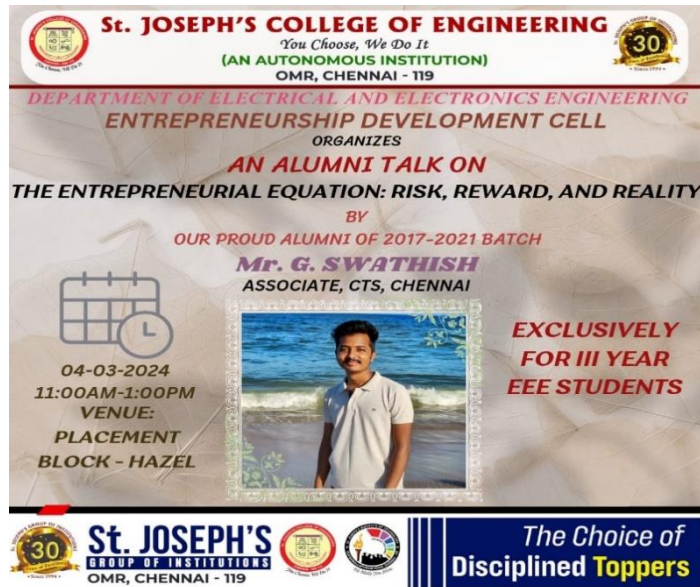
ISTE Activities

The poster features the St. Joseph's College of Engineering logo at the top left, with the motto "You Choose, We Do It" and the text "(AN AUTONOMOUS INSTITUTION) OMR, CHENNAI - 119". A "30" anniversary badge is at the top right. The main title is "DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING St. Joseph's ISTE Student Chapter Organised". The event is titled "TECHNICAL SPOT LIGHT ON- Power Electronics Simulation using SIMBA" by "Ms. Chaitra Naidu S, PE Application and support engineer Powersys". The central image shows a Zoom meeting interface with a slide titled "Boost Converter" and a circuit diagram. The date and time are "13 March, 2024 5.00P.M -6.30P.M". At the bottom, there are logos for "St. JOSEPH'S GROUP OF INSTITUTIONS OMR, CHENNAI - 119" and "The Choice of Disciplined Toppers".

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The St. JOSEPH'S ISTE STUDENT CHAPTER, in conjunction with St. Joseph's College of Engineering specializing in Electrical and Electronics Engineering organised an eminent webinar "TECHNICAL SPOT" on POWER ELECTRONICS SIMULATION USING SIMBA on 13th March, 2024 between 5.00 pm and 6.30 pm under the auspices of Ms. Chaitra Naidu S, PE Application and Support Engineer, Powersys, with 35 participants. This impactful session delved into the multifaceted advantages of vision, emphasizing its significance across various domains. The main insights and learnings from the webinar, emphasizing the value of power electronics simulation in the design and optimization process. It provides an overview of the webinar, including its objectives and the importance of power electronics simulation in the design and analysis of power electronic systems. This webinar aimed to explore the significance of power electronics simulation in the design and optimization process of power electronic systems. An e-Memento was presented to the speaker during the session and the session ended with the online group photo.

Alumni Interaction



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Our department of Electrical and Electronics Engineering has organized an alumni talk on “**The Entrepreneurial Equation: Risk, Reward and Reality**” for third year students on 4th March 2024. Our alumni **Mr. G. Swathish (Batch : 2017-2021) Associate ,CTS ,Chennai** briefed about how to develop idea into a product and what are the risk involved in the initial phase of Entrepreneurship. The session created an awareness about importance of entrepreneurship.

4

Alumni Interaction

Our department of Electrical and Electronics Engineering has organized **Higher Studies Motivational Talk on “How to Crack GATE & TANCET”** for II ,III and IV year students on 20th March 2024. Our alumni **Mr. Logarajan S (Batch : 2014-2018) IIT MADRAS ME (Power Systems & Power Electronics)** gave guidance for the students about how to prepare for GATE exam and TANCET exam. The session is very interactive and useful.

4

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Department of Electrical and Electronics Engineering
 &
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 CONDUCTS
 ONLINE

*Exclusively For
 II, III & IV Yr. Students
 of EEE Dept.*

HIGHER STUDIES MOTIVATIONAL TALK
 HOW TO CRACK GATE AND TANCET

MEET LINK & QR CODE
<https://meet.google.com/rvr-gmkj-ysd>

DATE & TIME
 MARCH 2024
 20
 6 PM TO 7 PM

Mr. LOGARAJAN S (BATCH 2014-2018)
 IIT- MADRAS (BATCH 2023-2025)
 M.E. (POWER SYSTEMS AND POWER ELECTRONICS)

JOIN US AND ACHIEVE YOUR LEARNING DREAM

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3 Placement club activities-Alumni Interaction

Motivational talk

Department of EEE organized the Gmeet session for the soliton eligible students and the session was presented by **our Alumni Ms. Bertina**. She gave motivational talk and interview tips to crack Soliton for shortlisted students.



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Placement club activities

Bright Byte Coders Club

On 5th March, 2024, Soliton training was organized for the third year EEE students with the aim of improving their programming skills. Our final year students **Mr.Nithin Joel and Mr. Sanjay Sampathkumar** who got placement in Soliton gave guidance to our third year students. They discussed about the question patterns and gave insights about few technical area were students need to strengthen their knowledge.



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Placement club activities

On 6th March 2024 **Bright Byte Coders Club** hosted a comprehensive session for Third year Electrical and Electronic Engineering (EEE) students, on the topic **“Data Structure & C programming”**. The primary goal was to boost problem-solving skills and augment their proficiency in C programming. The session covered essential concepts, ranging from basic syntax to advanced problem-solving techniques. By providing a solid foundation in C programming, participants were better equipped to tackle challenges



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in their academic coursework and future professional pursuits. The emphasis on problem-solving aimed to cultivate a mindset geared towards practical application and critical thinking. Overall, the session served as a valuable resource for students seeking to excel in the dynamic field of Electrical and Electronic Engineering.

3 **Placement club activities**

Our Department of EEE has conducted the SEERA program for Pre-final year students through **Bright Byte Coders Club**. The speakers of the event are our final year students **Mr.Nithin Joel and Mr. Siva Harish**. The program is organized on 13/03/2024 to enrich the Data structures in C Programming knowledge for the students.

4



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Placement club activities

On 20th March 2024 , **Prepinsta training** was given for Advanced level Students ,**Skill rack training** was given for intermediate level students and **special class coaching** was given for beginners level students. The main objective of this SEERA is to improve the coding skills of the students and improve the placement.

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Department of Electrical and Electronics Engineering

BRIGHTE SEERA Student Employability Enhancement & Research Activity
 CODERS CLUB

Preinsta Training for Advanced Level students (Category -I)

Skillrack Training for Intermediate Level students (Category -II) Exclusively for 3rd year EEE students

Special Class Coaching for Beginner's Level students (Category -III)

INSTITUTION'S INNOVATION COUNCIL (Ministry of IED Initiative)

20.03.2024
 3pm to 4.30 pm

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Department of Electrical and Electronics Engineering

BRIGHTE SEERA Student Employability Enhancement & Research Activity
 CODERS CLUB

SEERA Class conducted for Advanced, Intermediate and beginner level III Yr Students


INSTITUTION'S INNOVATION COUNCIL (Ministry of IED Initiative)

20.03.2024
 3pm to 4.30 pm

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

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<p style="text-align: center;">Placement club activities</p>  <p style="text-align: center;"><i>PIC: EVENT POSTER AND PHOTO</i></p>	<p>Department of EEE has conducted the SEERA for second year students through the Bright Byte coders club. The program is organized for Advanced level students on 21/03/2024 to Enhance communication skills. For intermediate and beginners level students skillrack training and coaching class are given to motivate the students.</p>	4
<p style="text-align: center;">Placement club activities</p>	<p>On 15th March 2024, Electric Kernel Club hosted a session for Second year Electrical and Electronic Engineering (EEE) students, on the topic “IOT & its Applications” ,”Introduction to Data Analytics” and “Robotics & its Applications”. Our faculty Dr.S.Sridharan, Associate Professor, presented seminar on the topic “IOT and its Applications” for II year A section students. He briefed about basic components of IOT and different applications. Dr.T.D.Sudhakar, Professor gave a lecture on “Introduction to Data Analytics” and he discussed about the scope of Data Analytics in the field of Electrical Engineering for II year B section Students.</p>	4

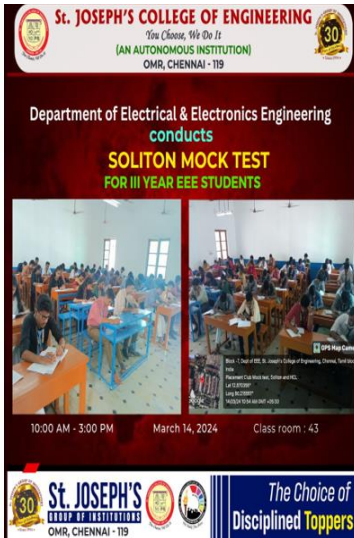


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Mr.T.Balasubramanian, Assistant Professor gave a session on the topic “Robotics and its Applications” for II year C section students. The session was very informative and useful to the second year students.

3 Placement club activities

Department of EEE has conducted the HCL and Soliton training program for Pre-final year students through **Bright Byte Coders Club and Lingual Clique**. The speakers of the event are Final year students Mr. Siva Harish. The program is organized from 11th to 14th march 2024 to enrich the programming skills for the students. The Soliton mock test has been



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conducted for pre-final year students on 14/03/2024.

4

Placement club activities

Bright Byte Coders Club and Lingual Clique
 Department of EEE has conducted the Soliton Training on 16/03/2024 in the topic “**Mastering Soliton: Unleash your potential**”. The program is planned to culture the concept of physics to the prefinal year students. The speaker of the program is final year student Mr. R. S. Kaviyarasu.

4



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Placement club activities

Lingual Clique club

On 15th March 2024 , Skill rack training was given to intermediate level students and special class coaching was given for beginners level students.

4



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4 Placement club activities

Department of EEE organized the Parent - Faculty Interaction meet on 10/03/2024 for all the three sections to meet the students' need towards placement.

4



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SEERA

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DEPARTMENT OF SCIENCE

Student Employability Enhancement Research Activities

"A PRIMARY TALK SESSION"

Exclusively for 1 year EEE students

EVENT SPEAKERS

1. Mr. S.S. Harish, M.E.
2. Ms. Vedavalli S.P., M.E., Ph.D.
3. Mr. S. Sivakumar, M.E.
4. Mr. Aravindan K., M.E., Ph.D.
5. Mr. A. SadeeshKumar, M.E., Ph.D.
6. Mrs. C. RamaDevi, M.E., Ph.D.

DATE: 11 MARCH 2024
TIME: 3:00pm To 5:00pm
VENUE: HAZEL, PLACEMENT BLOCK

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The Choice of Disciplined Toppers

“A PRIMARY TALK SESSION”

Department of EEE faculties have taken a primary talk session for the first-year students on 11/03/2024 in placement block to highlight the features of studying Electrical Engineering. In this session they briefed about the **Scope of Electrical Engineers** in various field.

PIC: EVENT POSTER

SEERA

St. JOSEPH'S COLLEGE OF ENGINEERING
30
The Choice of Disciplined Toppers

DEPARTMENT OF SCIENCE AND HUMANITIES
Student Employability Enhancement Research Activities

Exclusively for 1 year EEE students

VENUE-BLOCK 4
ROOM NO 19

HOW TO SCORE
IN
SKILLRACK

AADHI VIGNESHWAR P.S
II EEE

DATE:18 MARCH 24 TIME 3:00PM-8:00PM

St. JOSEPH'S COLLEGE OF ENGINEERING
30
The Choice of Disciplined Toppers

DEPARTMENT OF SCIENCE AND HUMANITIES
Student Employability Enhancement Research Activities

Exclusively for 1 year EEE students

DATE 18 MARCH 24 TIME 3:00PM-5:00PM

VENUE - PLACEMENT BLOCK HAZEL

St. JOSEPH'S COLLEGE OF ENGINEERING
30
The Choice of Disciplined Toppers

DEPARTMENT OF SCIENCE AND HUMANITIES
Student Employability Enhancement Research Activities

Exclusively for 1 year EEE students

18 MARCH 24 3:00PM - 5:00P

VENUE-BLOCK 4
ROOM NO 20

PIC: EVENT POSTER

Our students **Mr. Aadhi Vigneswar, Mr. Hemanth and Ms. Sirapani** has taken an eye opening session for the First year students on 18/03/2024 in the placement block and classroom to highlight the importance of Skillrack and How to score in Skillrack.

MENTOR MEETING



PIC:MENTOR MEETING

Department of EEE conducted **Mentor meeting** for the second year and third year students on 18th March 2024. During the mentor meeting, the mentors motivated the students to improve their academic performance. They guided the students to improve their interpersonal skills. The mentors encouraged the students to participate in Project competitions.

4

Student achievements

Ms.V.Dharani received Richard Merwin Student Scholarship of USD dollar 1000.
 Mr. Blesso got qualified in the GATE exam 2024 with a gate score of 358.
 Following students and mentors projects have been selected in Nan Mudhalvan – Niral Thiruvizha Grand Innovation & Skilling Challenge.

	Student Name	Mentor Name	Theme
1	Ahmed Mustafa M A	Dr.M.Ramesh Babu	Education 4.0

4

		<table border="1" data-bbox="1115 207 1745 634"> <tr> <td data-bbox="1115 207 1152 402"></td> <td data-bbox="1152 207 1346 402">Arun Kumar P Bharathraj M Dhshagireeva n S</td> <td data-bbox="1346 207 1577 402"></td> <td data-bbox="1577 207 1745 402"></td> </tr> <tr> <td data-bbox="1115 402 1152 516">2</td> <td data-bbox="1152 402 1346 516">Achaya V Dhyaneshwar E</td> <td data-bbox="1346 402 1577 516">Dr.Jayarama Pradeep</td> <td data-bbox="1577 402 1745 516">Smart town / City</td> </tr> <tr> <td data-bbox="1115 516 1152 634">3</td> <td data-bbox="1152 516 1346 634">Aparnaa G Aruna Devi S</td> <td data-bbox="1346 516 1577 634">Mr.R.Elanthiray an</td> <td data-bbox="1577 516 1745 634">Waste manageme nt</td> </tr> </table> <p data-bbox="1108 643 1751 1101">24 students have presented their paper in International Conference. BHARANIKUMAR S, HUDHAYARITHIGA R, JEEVITHA R, KEERTHANA S, PRASANNA GNANAMBIGA S, POOJASHREE K, , MALAVIKA N, RANJANI S, RAM PRASTH P, RATHNADEVI S, RAMYA R, RITHIKA R, RUTHIHARSAN R, SIVAHARISH M, SUSMITHA S, SWEETLINE SAHRON S, SHIVKUMAR EASWAR B, SHANKAR AAKASH S, SUNDARAVEL K, SATHESWAR B, THIRUVENGADAM G, VENKATESH V, VIMAL RAJ R, VIGNESHWAR R</p>		Arun Kumar P Bharathraj M Dhshagireeva n S			2	Achaya V Dhyaneshwar E	Dr.Jayarama Pradeep	Smart town / City	3	Aparnaa G Aruna Devi S	Mr.R.Elanthiray an	Waste manageme nt	
	Arun Kumar P Bharathraj M Dhshagireeva n S														
2	Achaya V Dhyaneshwar E	Dr.Jayarama Pradeep	Smart town / City												
3	Aparnaa G Aruna Devi S	Mr.R.Elanthiray an	Waste manageme nt												
4	<p data-bbox="394 1174 961 1214">Faculty awards and recognitions</p>	<p data-bbox="1098 1174 1751 1284">Our faculty Ms.M.Venmathi acted as a reviewer in Electric Power Components and Systems Journal</p> <p data-bbox="1098 1295 1751 1369">Our faculty Mr. T. Sri Anandhaganesh attended FDP titled “Aiming towards 3D’s in Electrical</p>	<p data-bbox="1822 1239 1850 1271">5</p>												

		Engineering from 11/3/24 to 15/3/23 conducted by Mahatma Gandhi Institute of Technology	
4	<p style="text-align: center;">PLACEMENT DETAILS FOR THE MONTH OF MARCH 2024</p>	<p>2020-2024 Batch</p> <p>Total No of students placed = 60 Students Total No of Offers = 66 Offers Total No of Students (UG) = 150 Total No of Eligible Students (UG) = 128 (All Clear) % of students Placed (UG) = $60/150 = 40\%$ No of students having single offers = 55 No of students having Double offers = 04 No of students having Triple offers = 01</p> <p>2021-2025 Batch</p> <p>Total No of students placed = 02 Students Total No of Offers = 02 Offers Total No of Students (UG) = 194 No of students having single offers = 02</p>	4

DEPARTMENT OF MBA

FACULTY PUBLICATIONS:

S. Aravinth, Assessing the impact and efficiency of microfinance institutions in india humanities and social science studies, vol. 13, issue 1, no. 13, january – june: 2024 42, ISSN 2319-829x

Dr. K. L. Chandramohan, Dr. Rashmita Singh, **Dr. K. Sampath**, “Employee expectation and satisfaction in retail financial sector”, IPE Journal of Management, ISSN 2249-9040 Volume 14, No 10, January-June 2024.

INDUSRIAL VISITS:



The Department of Management Studies organized a one-day Industrial Visit to “Schwing Stetter” on 14.03.204 for the II and III-year MBA-Integrated students. This company is one of the largest manufacturers of concrete and construction equipment nationwide.

The total number of students was 62 accompanied by 2 professors. The students and staff depart from the college around 8.45 am and reach the industry at 11.30 am.

After reaching the industry, Mr. Vinoth security officer guided the students with the safety measures and other instructions regarding emergencies before entering the company. At the end of the industrial visit, the students gain some knowledge about its internal processes and procedures. The students are thankful to the department of MBA for organizing such an enlightened industrial visit.

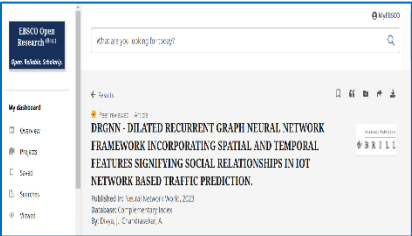
STUDENTS ACHIEVEMENTS:	STUDENTS	EVENTS	PRIZE
	Vishwa S Vaikundamani G	Paper Presentation	III Prize
	Rakshitha	Best Manager	Winner
	Savithaa K	Best Manager	Runner up
	Ilavalagan G Vaikundamani G	Business Plan	Runner up

DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No. **Photographs Captured During Event/Screenshot**

Corresponding remarks in regarding the status of activity execution

1



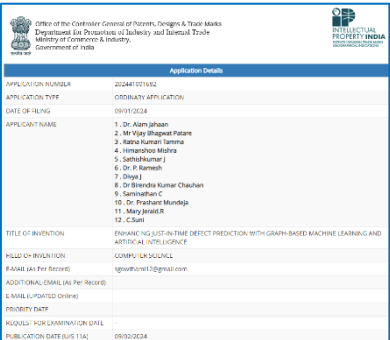
Author
Mrs. Divya J
Published a paper in Scopus Indexed Journal

Staff Paper Publication

Divya J, Chandrasekar A, “DRGNN - Dilated Recurrent Graph Neural Network Framework Incorporating Spatial and Temporal Features Signifying Social Relationships in IOT Network Based Traffic Prediction, Neural Network World, DOI:10.14311/NNW.2023.33.026, Issue 6, p481, ISSN 1210-0552, 2023 (Impact Factor: 1.518, Q4, Indexed in Scopus)

Abstract: The intelligent transportation system seeks to reduce traffic and improve the driving experience. They give us a lot of data that we can use to improve services for both the public and transportation officials by feeding it into machine learning systems. Most importantly, Traffic environment refers to everything that might have an impact on how much traffic is moving down the road, including traffic signals, accidents, protests, and even road repairs that might result in a backup. Additionally, it aids in the development of driverless vehicles. Traffic data have been growing dramatically in recent decades, and we are moving toward big data concepts for transportation. We thus aimed to focus on the traffic flow forecast problem using the traffic data and prediction models. The proposed model called DRGNN, a dilated recurrent graph neural network framework aims to effectively analyze and predict the traffic pattern by considering the spatial (space) and temporal (time) aspects of the real-time traffic data considering social relationships between internet of vehicles which indeed produced accurate and valuable insights that could help in deploying the model in any suitable real-time traffic monitoring and prediction system.

2



Patent Published

Title of the invention: Enhancing Just-In-Time Defect Prediction with Graph-Based Machine Learning and Artificial Intelligence

Name of Inventor:

1. Dr. Alam Jahaan
2. Mr Vijay Bhagwat Patare
3. Ratna Kumari Tamma
4. Himanshoo Mishra
5. Sathishkumar J
6. Dr. P. Ramesh
7. Divya J
8. Dr Birendra Kumar Chauhan

Ms. Divya J

9. Saminathan C
10. Dr. Prashant Mundeja
11. Mary Jerald.R
12. C.Suni
Patent Application Number: 202441001682
Date of filing of Application: 09/01/2024
Publication Date: 09/02/2024

3

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Innovation, Trade
Ministry of Commerce & Industry,
Government of India

Application Details

APPLICATION NUMBER	202441002740
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	13/01/2024
APPLICANT NAME	1. Dr.G.Rajeswarappa 2. Dr. Dhamodharan G 3. Subhra Chakraborty 4. Ms. Geetanjali Ganguly 5. R. Shoba 6. Dr. Vishwanath Kamatar 7. Dr P D Selvam 8. Dr. Vishwanath Kamatar 9. Ms. Sonu Rana 10. Dr. Reenu Batra
TITLE OF INVENTION	ARTIFICIAL INTELLIGENCE AND IOT BASED SMART URBAN WASTE MANAGEMENT SYSTEM FOR OPTIMAL RESOURCE ALLOCATION USING MACHINE LEARNING ALGORITHMS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL ID FOR RECORD	reenubatra@rediffmail.com
ADDITIONAL E-MAIL ADDRESS	
ADDRESS (REGISTERED OFFICE)	
PRIORITY DATE	
RELATIVELY NEW EXAMINATION LEVEL	
CLASSIFICATION (IPC CLASS)	H04M1/00

Ms. R. Shoba

Patent Published

Title of the invention: Artificial Intelligence and IOT Based Smart Urban Waste Management System for Optimal Resource Allocation Using Machine Learning Algorithms

Name of Inventor:

1. Dr.G.Rajeswarappa
2. Dr. Dhamodharan G
3. Subhra Chakraborty
4. Ms. Geetanjali Ganguly
- 5. R. Shoba**
6. Dr.M.Ponni Bala
7. Dr P D Selvam
8. Dr. Vishwanath Kamatar
9. Ms. Sonu Rana
10. Dr. Reenu Batra

Patent Application Number: 202441002740
Date of filing of Application: 13/01/2024
Publication Date: 23/02/2024

4

Application Details	
APPLICATION NUMBER	202411013394
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/02/2024
APPLICANT NAME	1. Dr. Hament Panwar 2. Dr. Nidhi Chaudhary 3. Dr. Tilak Ram 4. Dr. Supriya S 5. Dr. K. Mahendraprabhu 6. Dr. Uppu Anitha Devi 7. Dr. Gajanan C Upadhyay 8. Ms. M. Nivethitha Devi 9. Dr. Namrata Tripathi
TITLE OF INVENTION	MOLECULARLY ENGINEERED CATALYSTS FOR EFFICIENT CHEMICAL REACTIONS AT ROOM TEMPERATURE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	drup.in@gmail.com
ADDITIONAL E-MAIL (As Per Record)	
E-MAIL (PUBLISHED ONLINE)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (EVS 11A)	01/03/2024

Ms. M. Nivethitha Devi
Published an India Patent

Title of the invention: Molecularly Engineered Catalysts for Efficient Chemical Reactions at Room Temperature

Name of Inventor:

1. Dr. Hament Panwar
2. Dr. Nidhi Chaudhary
3. Dr. Tilak Ram
4. Dr. Supriya S
5. Dr. K. Mahendraprabhu
6. Dr. Uppu Anitha Devi
7. Dr. Gajanan C Upadhyay
8. Ms. M. Nivethitha Devi
9. Dr. Namrata Tripathi

Patent Application Number: 202411013394

Date of filing of Application: 24/02/2024

Publication Date: 01/03/2024

5

Application Details	
APPLICATION NUMBER	202441009139
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/02/2024
APPLICANT NAME	1. Dr.G.Sivaraman 2. Yallapu Srinivas 3. D.Kranthi Deep 4. Dr.S.Kirubakaran 5. Savita Choudhary 6. Dr. Amit Chauhan 7. Hepsi Ajibah A S 8. Dr. Prashant Mundeja 9. Dr. Kishore Kumar Godisela 10. Surya Pratap Singh 11. Shatabdi Madhav Bhalerao 12. Diksha Madhav Bhalerao
TITLE OF INVENTION	A NOVEL APPROACH TO DNA SEQUENCE CLASSIFICATION: MACHINE LEARNING AND PATTERN MATCHING
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patentpatent@services@gmail.com
ADDITIONAL E-MAIL (As Per Record)	
E-MAIL (PUBLISHED ONLINE)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (EVS 11A)	08/03/2024

Ms. Hepsi Ajibah A S

Patent Published

Title of the invention: A Novel Approach to DNA Sequence Classification: Machine Learning and Pattern Matching

Name Of Inventor:

1. Dr.G.Sivaraman
2. Yallapu Srinivas
3. D.Kranthi Deep
4. Dr.S.Kirubakaran
5. Savita Choudhary
6. Dr. Amit Chauhan
7. Hepsi Ajibah A S
8. Dr. Prashant Mundeja
9. Dr. Kishore Kumar Godisela
10. Surya Pratap Singh
11. Shatabdi Madhav Bhalerao
12. Diksha Madhav Bhalerao

Patent Application Number: 202441009139

Date of filing of Application: 11/02/2024

Publication Date: 08/03/2024

6

Application Details	
APPLICATION NUMBER	20241014502
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/02/2024
APPLICANT NAME	1. Dr. Prithi Samuel 2. Mr. Vijay K 3. Ms. D. Suganya 4. Ms. Rekha V 5. Ms. V. Priya 6. Mr. Manikandan J 7. Ms. Leena Jenifer. L
TITLE OF INVENTION	REAL TIME SENTIMENT ANALYSIS AND TRADING STRATEGIES ON BLOCKCHAIN
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Records)	mail2patent@gmail.com
ADDITIONAL E-MAIL (As Per Records)	
E-MAIL (UPDATED ONLINE)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (EVS 11A)	08/03/2024

Mr. Manikandan J Published
an India Patent

Patent Published

Title of the invention: Real-Time Sentiment Analysis and Trading Strategies on Blockchain

Name of Inventor:

1. Dr. Prithi Samuel
2. Mr. Vijay K
3. Ms. D. Suganya
4. Ms. Rekha V
5. Ms. V. Priya
6. Mr. Manikandan J
7. Ms. Leena Jenifer. L

Patent Application Number: 202441014502

Date of filing of Application: 28/02/2024

Publication Date: 08/03/2024

7

Application Details	
APPLICATION NUMBER	20241014658
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/02/2024
APPLICANT NAME	1. Ms. Punitha R 2. Dr. G. Tamilmani 3. Ms. Sowmia K R 4. Mr. Pradeep R 5. Dr. Arockia Raj Y 6. Ms. Jeya Priya D 7. Mr. Dennise Mathew
TITLE OF INVENTION	PRIVACY PRESERVING HEALTHCARE RECORDS WITH BLOCKCHAIN AND NLP
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Records)	mail2patent@gmail.com
ADDITIONAL E-MAIL (As Per Records)	
E-MAIL (UPDATED ONLINE)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
PUBLICATION DATE (EVS 11A)	08/03/2024

Ms. Jeya Priya D

Patent Published

Title of the invention: Privacy-Preserving Healthcare Records with Blockchain and NLP

Name of Inventor:

1. Ms. Punitha R
2. Dr. G. Tamilmani
3. Ms. Sowmia K R
4. Mr. Pradeep R
5. Dr. Arockia Raj Y
6. Ms. Jeya Priya D
7. Mr. Dennise Mathew

Patent Application Number: 202441014658

Date of filing of Application: 28/02/2024

Publication Date: 08/03/2024

8

Application Details	
APPLICATION NUMBER	202441011029
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/02/2024
APPLICANT NAME	1. Dr.M.Somaiah 2. Sameer Yadav 3. Dr. Sreekala C K 4. Ms.Nandhini M 5. Pramod S 6. Dr.G.Shanthi 7. D.Victorseelan 8. Dr. Sachin Kumar Agrawal 9. K Vetri 10. Anthony Savio Herminio da Piedade Fernandes 11. Jyoti Prasad Patra 12. Seepuram Srinivas Kumar
TITLE OF INVENTION	STATISTICAL ALGORITHMS AND MACHINE LEARNING TECHNIQUES FOR PREDICTING STOCK MARKET MOVEMENTS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL ID (As Per Record)	sgnandhini2@gmail.com
ADDITIONAL E-MAIL (As Per Record)	
E-MAIL (AS PER RECORD)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	
APPLICATION DATE (DD/YY)	08/03/2024

Ms.Nandhini M

Patent Published

Title of the invention: Statistical Algorithms and Machine Learning Techniques for Predicting Stock Market Movements

Name of Inventor:

1. Dr.M.Somaiah
2. Sameer Yadav
3. Dr. Sreekala C K
- 4. Ms.Nandhini M**
- 5 . Pramod S
6. Dr.G.Shanthi
- 7 . D Victorseelan
8. Dr. Sachin Kumar Agrawal
9. K Vetri
10. Anthony Savio Herminio da Piedade Fernandes
11. Jyoti Prasad Patra
12. Seepuram Srinivas Kumar

Patent Application Number: 202441011029

Date of filing of Application: 28/02/2024

Publication Date: 08/03/2024

9

Patent Published

Title of the invention: Machine Learning-Driven Auto-Scaling Mechanism for Cloud Infrastructure Handling Big Data Workloads

Name of Inventor:

1. Dr.Dhananjaya Reddy
2. Mr.Vijay Kumar Gottipati
3. Mrs.Nagendram Gella
4. Mrs.Haseeba Yaseen
- 5. Mr. V.R.Narasimharao Mondreti**

Application Details	
APPLICATION NUMBER	202441011029
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/03/2024
APPLICANT NAME	1. Dr. Shanmugasu Reddy 2. Mr. Vijay Kumar Gootpati 3. Mrs. Nagendram Galla 4. Mrs. Jayashika Vasani 5. Mr. V.K. Narasimharao Mondreti 6. Ms.A.Kavitha 7. Mr. Rathod Maheshwar 8. Mr. Ravindar Amgoth 9. Dr.S.Vinod Kumar 10. Dr.Dasari Vijaya Kumar
TITLE OF INVENTION	MACHINE LEARNING DRIVEN AUTO SCALING MECHANISM FOR CLOUD INFRASTRUCTURE MANAGING BIG DATA WORKLOADS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Records)	6629ak.g@iit2023@gmail.com
ADDITIONAL E-MAIL (As Per Records)	
E-MAIL (UPDATED ONLINE)	
PRIORITY DATA	
REQUEST FOR EXAMINATION DATE	..
PUBLICATION DATE (UP'S ITR)	22/03/2024

Ms.A.Kavitha

6. Ms.A.Kavitha

7. Mr.Rathod Maheshwar

8. Mr.Ravindar Amgoth

9. Dr.S.Vinod Kumar


10. Dr.Dasari Vijaya Kumar

Patent Application Number: 202441011029

Date of filing of Application: 01/03/2024

Publication Date: 22/03/2024


DEPARTMENT OF MATHEMATICS AND ENGLISH

Events	Remarks							
FDP/Workshop/Conference								
	S.No	Name of the staff	Title of FDP / Workshop		Organized by	Mode	From	To
	1	Dr. S. Priyadarshini	Faculty Development Program on Quantitative Research Design and Application of SPSS Software		Eudoxia Research Centre, India	Online	22-03-2024	28-02-2024
Awards/Prize won by students								
S.No	Name of the Student	Branch & Sec	Event	Organized by		Date of the event	Place	
1	JAKRUTHEE D JANANI E KAVIYA S	I CSE - B	CODING & DEBUGGING	JEC TECHFEST 2.0 JEPPIAAR ENGINEERING COLLEGE		22-03-2024	II	
Industrial Projects done by students								
Publications(only published) details								
<ol style="list-style-type: none"> Ahmad Aloqaily, P. Agilan, K. Julietraja, S. Annadurai and Nabil Mlaiki, “A novel stability analysis of functional equation in neutrosophic normed spaces”, Boundary Value Problems, 2024(47):1-24 https://doi.org/10.1186/s13661-024-01854-2 Priyadarshini S, M.R. Bindu, Giriraj Kiradoo, K. Nanthitha, R. Subhashini, “Unveiling Cultural Identities and Self Savouring in Preethi Nair’s One Hundred Shades of White and Sarah Addison Allen’s The Girl Who Chased the Moon”, World Journal of English Language, Vol 14, No 3 (2024), https://doi.org/10.5430/wjel.v14n3p399 								

DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	Staff Acheivements:	<p>Dr. N. Arunkumar, Mr. M. Subramanian & Mr. T. Balasubramanian Received Patent Grant on 29/03/2024 on topic "An auxiliary braking apparatus for vehicles and a method to operate the same".</p> <p>2. Dr. N. Arunkumar, Dean IC & IQAC and Professor, Department of Mechanical Engineering, Got Elite Silver Certificate in in NPTEL Exam conducted on 24th March 2024 on the topic "Introduction to Machining and Machining Fluids" in association with IIT, Tirupathi</p> <p>3. Dr. N. E. Arunkumar, Associate Professor, Department of Mechanical Engineering, Got Elite Certificate in in NPTEL Exam conducted on 24th March 2024 on the topic "Introduction to Machining and Machining Fluids" in association with IIT, Tirupathi</p> <p>4. Mr. M. Ganesh, Assistant Professor, Department of Mechanical Engineering, Got Elite Silver Certificate in in NPTEL Exam conducted on 24th March 2024 on the topic "Introduction to Machining and Machining Fluids" in association with IIT, Tirupathi</p>

		<p>5. Mr. G. Kasirajan, Assistant Professor from Department of Mechanical Engineering, Got Elite Certificate in NPTEL Exam conducted on 24th March 2024 on the topic “Fundamentals of Welding Science and Technology” in association with IIT, Guwahati. 6. K. Pravinkumar, V. S. . Rao, and R. Sathish, published a journal titled “Inhibition study of curcumin extract’s effect on dissimilar aluminium joint: Scientific paper”, J. Serb. Chem. Soc., vol. 89, no. 2, pp. 245–258, Mar. 2024.</p>
2	<p>Student Chapter Activity:</p> 	<p>Society of Automotive Engineers (SAE) Student Chapter of Mechanical Department built a vehicle and participated in TEAM INFERNO RACING. 25 Students were involved in design and fabrication of all-terrain vehicle.</p> <p>The Racing event was conducted at BVSRIIT Hyderabad from 6 th -10th March, 2024. Our team competed with 800 teams across India in the initial design phase. Our team stood 16th Position in National level and 4 th Position within Tamil Nadu.</p>
3		<p>The E-BAJA Buggy manufactured for BAJA SAE INDIA 2024 was presented in (ATVC) Aravalli Terrain Vehicle Championship 2024 Event Conducted in (NMIET) Nutan Maharashtra Institute of Engineering and Technology, Talegaon, Pune from 20th to 24th March 2024, organized by Infi League Motorsports. The 24 members team of Inferno</p>

	<p>Competitions Won</p>	<p>Racing Team 7.0 comprising Final, Third and Second-year Mechanical and Electrical students mentored by Dr. Narmadha, Professor, Electrical Engineering Department and Mr. T. Balasubramanian, Asst Professor, Mechanical Department participated and secured All India Rank 5 (out of 51 teams) with State Rank of 2 (out of 12 teams). The team also achieved the second runner up in the Endurance and Acceleration Event with a cash award of Rs 11,000/-</p>
4		<p>The M-BaJA Buggy manufactured for BAJA SAE INDIA 2024 was presented in (ATVC) Aravalli Terrain Vehicle Championship 2024 Event Conducted in (NMIET) Nutan Maharashtra Institute of Engineering and Technology, Talegaon, Pune from 20th to 24th March 2024, organized by Infi League Motorsports. The 20 Members team of Aurelian Racing Team 7.0 comprising Final, Third and Second year of Mechanical Students mentored by Mr. T. Balasubramanian, Assistant Professor, Mechanical Department Participated and secured All India Rank 7 (out of 100 Teams) With State rank 2(out of 10 Teams).</p>

5		<p>Indian Institute of Welding (IIW) student chapter of Department of Mechanical Engineering went to Integral Coach Factory (ICF) as part of yearly plan of societal activity on 15th March, 2024. Mr. A. Ruskin Bruce and Mr. P. Premkumar accompanied along with to Integral Coach Factory (ICF)</p>
6		<p>ISHRAE Chennai student chapter of Department of Mechanical Engineering organised a mini-industrial tour inside the campus of St. Joseph's College of Engineering for 20 ISHRAE student members on 22nd March, 2024 . This event aimed to illustrate the basic workings and equipment of split, packaged, and centralised air conditioners. A tech talk was given by Mr. V. Ashok Kumar, followed by an industrial tour led by Mr. John Bosco. From this event, the students learned about different types of refrigerants, types of compressors, and the capacities of different air conditioner systems.</p>

7		<p>Student workshop was organized by the Department of Mechanical Engineering along with TEEV battery manufacturing company for third year students on 4 th & 5 th March, 2024 and for second year students on 25th & 26 th March, 2024 on the topic of 2-Wheeler Electric Vehicle Technology. Students got exposure on Battery manufacturing process with connection, EV two wheeler assembling and disassembly.</p>
8	 <p>Guest Lecture</p>	<p>A Guest lecture on “ Basics of Multiscale Modelling Using Machine Learning Techniques ” was Conducted for Second year Mechanical Students on 14th March, 2024.. The resource person is Dr. Arul Kumar Mariyappan, Associate Professor, Department of Mechanical, IITDM, Kancheepuram.</p>
9	<p>MOU Activity:</p>	<p>On 28th March, 2024 the Department of Mechanical Engineering and CADDAM Technologies Pvt Ltd signed a Memorandum of Understanding (MoU) for the purpose of conducting value-added courses, guest lectures, and placement activities.</p>



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Alumni Activities:



Our Elite Alumni, Mr. Vasanth J. (Batch 2018-22), Mr. Sudharshan. P.L. (Batch 2016-20), and Mr. Ashwin P. (Batch 2016-20) visited our college on 23rd March, 2024, and delivered an "Alumni Talk" on the topic of "Importance of Coding in Core Industries". Also they shared the preparation techniques for the GATE exam. Our first-year and third-year students of mechanical engineering witnessed the event and had a fruitful discussion with their aluminus.

On 25th March, 2024, Second Year Mechanical Engineering Students were fortunate to attend an alumni interaction session on the topic of "Importance of Coding Languages in Mechanical Industries." The session was led by Mr. N.P. Surenthar, a Technical Support Engineer at Zoho Corporation and a member of the 2019-2023 alumni batch.

Our Elite Alumni, Mr. Padmanaban, JSW steel manager, and



Mr. Manojkumar, Infosys engineer, gave an "Alumni Talk" for our department III year students on 22nd March, 2024 .

DEPARTMENT OF SCIENCE


Sl. No.	Events	Remarks
4	FDP/Workshop/Conference	<p>Organised:</p> <p>1. Dr. V.N. Nandini Devi , Dr. P. Saravanan organized a workshop on “Recent Updates in Sustainable and Health Care Materials (RUSHM 24)” on 28.03.2024.</p> <p>Attended:</p> <p>2. Dr. G. Sasikumar , Dr. P. Krishnan attended an International Conference on “Crystal Growth and its technological applications” conducted by “SSN college of Engineering, Chennai” held between 18.03.24 and 20.03.24.</p> <p>3. Dr. V.N. Nandini Devi, Dr. S. Kiruba, Dr. N. Punitha, Dr. S. Suresh, Dr. A. Arulmozhi, Dr. A. Mahalakshmi, Dr. S. Manikandan, Mr. S. Kaleel Mohamed Ibrahim, Dr. P. Krishnan, Dr. K. Sathesh Kumar, Dr. S. Rama, Dr. P. Saravanan, Dr. G. Murugan, Dr. V. Swarnalatha, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Dr. J. Sharmila, Ms. S. Savitha, Dr. K. Jayamoorthy, Dr. B. Subash, Dr. S.M. Prakash, Dr. T.L. Ajeesha have attended workshop on “Recent Updates in Sustainable and Health Care Materials (RUSHM 24)” conducted by the department of Science, St. Joseph’s College of Engineering, Chennai on 28.03.2024</p> <p>Presented:</p> <p>4. Dr. A. Uma Devi presented a paper titled “ Investigations Of Chopped Basalt Strands For Concrete Beams Structures” in “International conference on Materials and Energy Science- ICMES 2024” conducted by “ Aditya Engineering College, Surampalem- 533437, Andhra pradesh” held between 22.3.24 and 23.3.24.</p>


		<p>5. Dr. S.M. Prakash presented a paper titled “An experimental investigation of concrete reinforcing lime and natural fillers with agro-waste” in “International conference on Materials and Energy Science- ICMES 2024” conducted by “ Aditya Engineering College, Surampalem- 533437, Andhra pradesh” held between 22.3.24 and 23.3.24.</p>
8	Competitions attended by students	<p>1. Mr. C.S. Steve Christian Samuel , I ECE-C, Mr. B. Santhosh Sharan, I AML-B , Mr. Auslin Feni Aurockia Dhas, Ms. Abinaya B S, Ms. Devadharshini A, Ms. Dhivyadharshini K R, Ms. Berlin Giftina. J. D, Mr. Indhreaa Yadhav B.L of I ECE - A , Ms. R. Divyadarshini, had participated in “ TECBLAZE 2K24, CODEZEN,” competitions conducted by “ SRM Easwari Engineering College” held on 09.03.24.</p> <p>2. Mr. S.J. Divagar had attended “Inter College Project Competition” conducted by “Sathyabama Institute of Technology, Chennai” on 22.03.2024.</p> <p>3. Mr. Pranav Arya , I AML-B had attended “Exlog event” conducted by “SSN College of Engineering, Chennai” on 22.03.2024</p> <p>4. Mr. P. Divyabharath , I ADS-A, had attended “Prayathna Symposium” event conducted by “MIT-Chrompet, Chennai” on 23.03.24.</p> <p>5. Mr. S. Diwakar, Mr. G. Jai riyaz, Ms. N.C. Divya, Ms. R. Dharshini of I ADS-A, Ms. Anushri Raja. Ms. Abinaya B S, Ms. Gayathri Devendhrakumar, Mr. V. Aathavan Vallarasu of I ECE-A had participated in “SIGMAZ 24” events conducted by “SIMITAS Engineering, Chennai” on 25.03.24.</p> <p>6. Mr. B. Santhosh Sharan, Mr. K. Sri Raagav Rathnam of I AML-B had participated in “VTECH SPARK – 2k24 event” conducted by “Vel-tech Rangarajan Dr. Sakunthala R&D Institute of Science and Technology, Avadi, Chennai” on 27.03.24</p>
9	Awards/Prize won by students / Staff	<p>Students Awards:</p> <p>1. Ms. G. Iniya, Mr. J. Hasan Dhanish, Ms. R. Aieshwarya, Ms. J.S. Amritha, Mr. L.V. Adhavan Vallarasu of I ECE-A had won “II prize” in “Tech-RC Racing- Thakshasheela 2024” event conducted by Chennai Institute of Technology on 02.03.24.</p> <p>2. Ms. M Shanmugapriya, Ms. J. Sena Therase of I ADS-C had won “II prize” in “Asthivara megaverse Symposium” event conducted by Easwari Engineering College,</p>

		<p>Chennai on 09.03.24.</p> <p>3. Mr. B. Santhosh Sharan , I AML-B had won “I Prize” in “Wizhack – Inmatrix symposium” event conducted by “Velammal Institute of Technology, Chennai” on 16.03.24</p> <p>4. Mr. C.S. Steve Christian Samuel , I ECE-C had won “II Prize” in “Wizhack – Inmatrix symposium” event conducted by “Velammal Institute of Technology, Chennai” on 16.03.24.</p> <p>5. Ms. Subani Sundaram , I ECE-C, had won “ I prize” in “Spot the BGM-Technical quiz – Inspirus 2024 –symposium” event conducted by “SIMTAS – Engineering, Chennai” on 25.03.2024.</p> <p>6. Mr. C.S. Steve Christian Samuel , I ECE-C had won “I Prize” in “Code clash – Tecfest 2024” event conducted by “Tagore Engineering College, Chennai” on 26.03.24</p>
11	Publications(only published) details	<p>Journals:</p> <p>1. Dr. P. Saravanan published a paper titled “Online buying behaviour during COVID pandemic - Do men and women differ in their behaviour?” in “Rabindra Bharathi University Journal of Economics”. doi: - ISSN- 0975-802X</p> <p>2. Dr. S. Kiruba published a paper titled “Impact of Intense Modulation on Soliton” in “Journal of Electrical Systems”. DOI: https://doi.org/10.52783/jes.727</p> <p>3. Dr. J. Sharmila, Dr. S.Suresh published a paper titled “Acute Toxicology Study Report Of Organic Dyes-Degraded Water On Adult Zebrafish As Human Model For Direct Utility” in “Environment,Development And Sustainability”https://doi.org/10.1007/s10668-024-04710-6</p> <p>4. Dr. V. Swarnalatha published a paper titled “Physio -chemical and biological characterizations of 1 Bromo -4' Chloro Benzylidene Aniline crystals for engineering utilities” in “ECS Journal Of Solid State Science And Technology”. doi:10.1149/2162-8777/ad37d7</p> <p>5. Dr. N.R. Rajagopalan published a paper titled Facile preparation of Fe₂O₃ catalyst and assessment of its photodegradation performance for industrial effluent purification, ” in the journal of “Results in Chemistry”. doi:https://doi.org/10.1016/j.rechem.2024.101435</p> <p>Patents:</p> <p>1. Dr. V.N. Nandini Devi published a patent titled “Biodegradable Polymers With Tunable</p>



		<p>Properties For Sustainable Packaging” in “Patent and Design Journal”. Dt. 08/03/2024 Issue: 10/2024, Application number: 202411014349</p> <p>2. Dr. N.R. Rajagopalan published a patent titled “ Tailoring Nio Nanostructures For Green Energy Generation And Environmental Cleanup ” in “Patent and Design Journal”. Dt. 15/03/2024 Issue 11/2024, Application Number No.202441015700</p> <p>3. Dr. N.R. Rajagopalan published a patent titled “Synthesis And Characterization Of Nio-Based Nanostructures For Enhanced Photocatalytic Activity” in “Patent and Design Journal”. Dt. 15/03/2024 Issue 11/2024, Application Number No.202441015701</p> <p>4. Dr. V. Swarnalatha published a patent titled “A Novel Deep Learning Enable Report To Mimic Employeees” in “Patent and Design Journal”. Dt. 29/03/2024 , issue 13/2024, Application number: 202441020880</p>
13	Other activities(if any)	<p>Department of Science conducted the following Alumni talk programs:</p> <p>1) Introduction to NLP - By Mr. R. Praveen (2016-2020 Batch EIE)</p> <p>2) Engineering Horizons – By Ms. Chethana S (2014-18 batch, EIE)</p>

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail					
I.	Online Certification	S.No	Faculty Name	Title/Name of the course	Conducting agency	Period	Proof link
		1.	Dr.B.Senthilkumar	Edge Computing	Jan-Mar 2024	8 Weeks (Jan-Mar 2024)	

II	Consultancy						
S.No.	Name of faculty	Client Organization	Title of Consultancy of project	Amount received (Rupees)	Month and Year	Proof	
1	Dr.R.Kotteeswaran Dr.V.Vijayan Dr.B.Senthilkumar	RETECH	Model-Free Control Approaches for Complex Dynamical Systems	1,50,000/-	Jan 2024 to March 2024	 <p>The screenshot shows a mobile banking confirmation screen. At the top, it says 'Confirmation' and 'Transaction Successful!'. Below that, it displays 'Transaction ID: 1511012542' and the date 'Thu, 26 Mar 2024 at 1:20 PM'. A summary box shows 'Total Amount Transferred ₹15,000'. The details section lists: Payee Name: S Josephs, Payee Bank Name: INDIAN BANK, To Account No.: XXXXX0386, From Account No.: XXXXXXXX1244, Amount: Fifteen Thousand Rupees Only, Payment type: IMPS, and Remarks: Consultancy Charges. At the bottom, there are buttons for 'Share Receipt', 'Download Receipt', and 'Make New Payment'.</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.	Industrial Visits, In plant trainings, Internships	 <p>II year (Batch: 2022-26) Civil Engineering students visited Chembarampakkam Water Treatment Plant on 12th March 2024 as a part of practical learning through industrial visits.</p>
2.	Guest Lecture / Webinar Organized	

		<p>Er.Harish Sridharan, Senior Manager,Commercial Advisory & Transactions,Savills Property Services (India) Private Limited, Chennai delivered a guest lecture to II year and III year Civil Engineering Students on the topic “ Real Estate Life Cycle” on 14th march 2024.</p>
3.	<p>Other activities (if any)</p>	<ul style="list-style-type: none"> ● Mrs.S.Banupriya published a patent tilted as “DEVELOPMENT OF SELF HEALING CONCRETE WITH CRYSTALLINE COATINGS AND ADMIXTURES” on March 2024. ● All the second year Civil Engineering students has written the Linguaskill Examination of Cambridge Assessmrrt English on 13th march 2024 ● Dr.K.Vijai has published a patent titled “ AI and Blockchain based secure password management system to enhanced security through cryptography” on 22nd March 2024 ● Mrs.R.Ruthra has published a patent titled “BUILDING STRUCTURAL MATERIAL FOR BUILDING- STANDARD STEEL-FRAMED STEEL MATERIAL AND ITS MANUFACTURING METHOD” on 14th March 2024.