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

DECEMBER 2023
DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	**FDP/WORKSHOP/CONFERENCE** 	1. Ms.Yuwvaranni.S has attended a FDP on Green Biotechnology and Green Energy during Dec18th - Dec 24th, 2023, organized by Arunai Engineering College, Thiruvanna malai, Tamil nadu in Association with BRSI , ISTE, IIC 2. Dr.K.R.Preethy has attended a FDP on Green Biotechnology and Green Energy during Dec18th - Dec 24th, 2023, organized by Arunai Engineering College, Thiruvanna malai, Tamil nadu in Association with BRSI , ISTE, IIC 3. Ms. B. Sangeetha, Attended a one-week FDP on, "Green Biotechnology and Bioenergy" organized by the Department of

Copy of certificate Ms. S. Yuwaranni *Copy of certificate Dr.K.R.Preethy*	Biotechnology, Arunai Engineering College, Thiruvannamalai from 18th to 20th December 2023. 4. Dr. L. Antony Catherine Flora, Attended a one-week FDP on, "Green Biotechnology and Bioenergy" organized by the Department of Biotechnology, Arunai Engineering College, Thiruvannamalai from 18th to 20th December 2023. 5. Ms. A.Anli Dino, Attended a Faculty Development programme on, "Green Biotechnology and bioenergy" organized by the Department of Biotechnology, Arunai Engineering college from 18th to 24th December 2023.

Learners Intellectual sanctuary

ARUNAI
Engineering College
TIRUVANNAMALAI

Affiliated to Anna University, Approved by AICTE, NAAC accredited, ISO 9001 Certified

One Week Online Faculty Development Programme(FDP) on Green Biotechnology and Bioenergy

18th to 24th December 2023

E-CERTIFICATE

This is to certify that

Ms B.Sangeetha Assistant Professor

St. Joseph's College of Engineering, Chennai

has actively participated in   One Week Online Faculty Development Programme (FDP) on **Green Biotechnology and Bioenergy** from 18th to 24th December 2023 organized by Department of Biotechnology, Arunai Engineering College, Tiruvannamalai, Tamilnadu, India in association with **Biotech Research Society, India (BRSI), Indian Society for Technical Education (ISTE) and Institution's Innovation Council (IIC)** chapter of this Institution.

Er.E.V. Kumaran	Dr.R. Sathiyaseelan	Dr.R.Ravichandaran	Prof.R. Praveenkumar	Dr.R.Selvaraj
Vice Chairman	Registrar	Principal	HOD-Biotech	Coordinator-Biotech

Copy of certificate Ms. B. Sangeetha

Copy of certificate Dr. L. Antony Catherine Flora

	Copy of certificate Ms. A. Anli Dino	
2.	**STAFF CONFERENCE PRESENTATION**	1. Dr. G. Baskar received reviewer recognition certificate from Systems Microbiology and Biomanufacturing published by Springer. 2. Dr.M. Chamundeeswari has participated in oral and technical presentation in the title " Toxicity Optimization Of Green Zinc Oxide Quantum Dots In Zebrafish Using Box-Behnken Design: A Novel Approach For Safer Nanoparticle Synthesis" on 11th International Maridin Artuklu Scientific Researchers conference held on Dec13-15, Mardin, Turkiye. 3. Dr. M. Chamundeeswari has participated in oral and technical presentation in the title "

SMAB REVIEWER CERTIFICATE

This certificate is awarded to

Baskar Gurunathan

For serving as a reviewer for

SYSTEMS MICROBIOLOGY AND BIOMANUFACTURING

Thank you for reviewing 2 manuscripts in 2023 !

Yan Xu
Editor-in-chief

Ashok Pandey
Co-Editor-in-Chief

21 December 2023

Copy of certificate Dr.G.Baskar

Formulationof Bio Brick Using Eggshell Derived Calcium Oxide Nanoparticle With Agricultural Waste - A Cost Effective And Constructive Biomass Management" on 9th Ankara International Congress On Scientific Research held on December 26-29, 2023 / Ankara, Turkiye.

4. Ms.Yuwvaranni.S has presented a paper titled FORMULATIONOF BIO BRICK USING EGGSHELL DERIVEDCALCIUMOXIDE NANOPARTICLE WITH AGRICULTURAL WASTE - A COST EFFECTIVE AND CONSTRUCTIVE BIOMASS MANAGEMENT in 9th ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH held on December 26-29, 2023 / Ankara, Türkiye

5. Ms.A. Anli Dino , Successfully completed the 4 credit **Online course** "Biomass Characterization" with a score of 70% from the examination held in December 2023 through SWAYAM".

100

TÜRKİYE CUMHURİYETİ'NİN YÜZÜNCÜ YILI

Certificate

OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Chamundeeswari. M

in oral and technical presentation recognition and appreciation of research contributions to

9th ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH
held on December 26-29, 2023 / Ankara, Türkiye

with the paper entitled

FORMULATIONOF BIO BRICK USING EGGSHELL DERIVED CALCIUM
OXIDE NANOPARTICLE WITH AGRICULTURAL WASTE - A COST
EFFECTIVE AND CONSTRUCTIVE BIOMASS MANAGEMENT

Copy of certificate Dr.M. Chamundeeswari

Copy of certificate Dr.M. Chamundeeswari

Copy of certificate Ms. S. Yuwaranni

SWAYAM ONLINE COURSE CERTIFICATION

This certificate is awarded to
A Anli Dino
for successfully completing the 4 credit course
Biomass Characterization
with a consolidated score of 70%
from the evaluation based on continuous online assessments and the proctored
examination held in month of December 2023.

This course was offered by K. Arunkumar of Central University of Kerala

Roll No. : TN01020052

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	30	70	40	100	70

J. B. Nadda
National Coordinator
Consortium for Educational Communication (CEC),
New Delhi

CEC

Dr. Jayaprakash R
Controller of Examinations
Central University of Kerala

Issued On : 27/12/2023

To validate and check scores: https://swayam.gov.in

Copy of certificate Ms. A.Anli Dino

DEPARTMENT OF ARTIFICAL INTELLIGENCE AND MACHINE LEARNING

Sl. N o.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	**Co-author:** **Dr. Sherly Puspha Annabel. L** Published a Conference paper	**Staff Paper Publication** Kumar. D, D. (2023, October). Secure User Recommendation using Machine Learning Techniques. In 2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC) (pp. 233-240). IEEE. Abstract - A secure user recommendation is a significant and emerging service, which expands and enhances the recommendation service by actively recommending secure user to other users based on the trustworthiness. One primary reason for the need of a secure user recommendation system in current society is that people have too many opportunities to access other users due to the ubiquity of the internet. The existing recommendation system such as content based, collaborative filtering gives user to user recommendation based on their similar choices, activities and location preferences etc. These exiting methods have narrow scope of recommendation and are less efficient. This study proposes a new secure user recommendation system that overcomes the shortcoming of the existing system. The proposed secure user recommendation system determines the trustworthiness of user found in the dataset based on the various attributes like profile, interaction, intensity of relationship etc. The machine learning techniques are used for giving recommendation on various applications. To arrive at the goal of intensifying the user trustworthiness, here the focus is on building the trustworthy model that can predict the trustworthiness level of users under the multiple trust attribute conditions using machine learning techniques.

1		FDP / Workshop Attended by the faculty				
	Certificates received by Faculty	**S.No.**	**Name of the FDP /Workshop**	**Name of the staff**	**Conducted By**	**Duration**
		1	Emerging Trends in Artificial Intelligence and Deep Learning	Ms. M. Poornima	Sri Sai Ram Institute of Technology	26-12-23 to 30-12-23 (5 Days)
		2	Emerging Trends in Artificial Intelligence and Deep Learning	Ms. Priyadharshini.S P	Sri Sai Ram Institute of Technology	26-12-23 to 30-12-23 (5 Days)
		3	Emerging Trends in Artificial Intelligence and Deep Learning	Ms. K. Deepa	Sri SaiRam Institute of Technology	26.12.2023 to 30.12.2023 (5 Days)
2		**Online Courses Completed by faculty**				
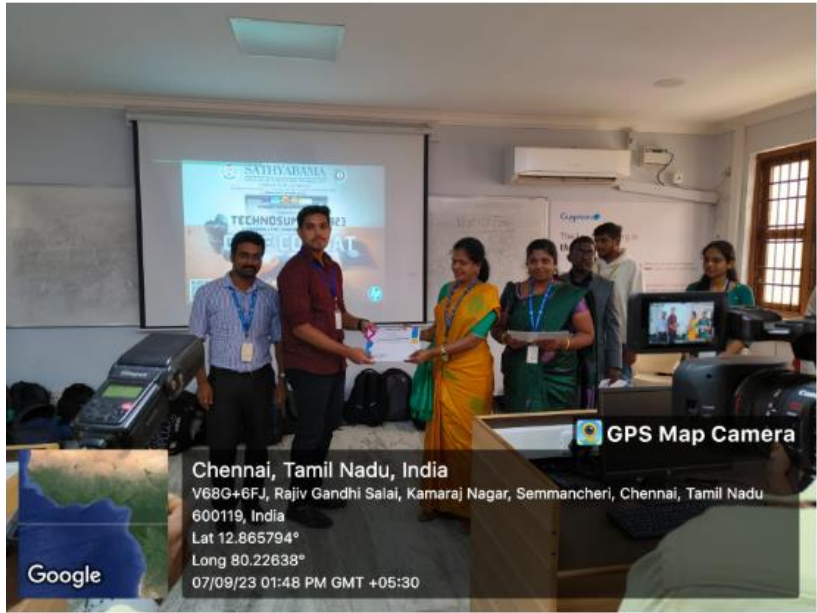
Certificates received by Faculty	

S.No.	Course Name	Name of the Staff	Conducted By
1	Natural Language Processing	Dr. Lilly Raamesh	NPTEL
2	Deep Learning	Ms. SP Priyadharshini	NPTEL

DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
1.	**FDP/WORKSHOP/CONFERENCE**	**Dr. Renuka.V, Professor, Dr.Vnod Kumar.P , Associate Professor, Dr.S.Sujatha, Dr.N.Magesh, Mrs. R.Lavanya & Mr.P.Anand Kumar, Assistanta Professore, Department of Chemical Engineering** has attended One- week Faculty Development Program on ***"Green Biotechnology and Bioenergy"*** from 18.12.2023 – 24.12.2023 Organised by Arunai Engineering College.
2.	**PUBLICATIONS(ONLY PUBLISHED) DETAILS**	Dr.P.V.Renuka, Professor, Department of Chemical Engineering has published a journal on "***An in-vitro study on post-surgical breast wound healing actovity by zinc oxide dots and its***

| | | *optimization using Box Behnken design*" in Journal of Drug Delivery Science and Technology. |
| | | ![Screenshot of journal article page] |

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	**Event – Code Combat**	
		Our student of (III- year B.E Computer Science Engineering Department) Mr. Sreeram A M had won **First prize** and received a cash prize of **Rs.10000/-** for **CODE COMBAT** in Techno summit 2023 Organized by **Sathyabama Institute of science and Technology.**

DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	**Patents Published**	➢ Mr.G.kasirajan published an *Indian patent* titled,"**Rigged Aerodynamic Diffuser Blades Mixed Flow Pump for Flow Resistance Control**" on Dec 08th 2023.
2		➢ Third Year Students visited **SAI OLD AGE HOME, Kundrathur,Chennai** on Dec03rd 2023,as a part of the NGO Activity and interacted with the old people at the home.
3		➢ Third Year Students visited **Little Flocks Children Home,Singaperumal** on Dec03rd 2023,as a part of the NGO Activity and interacted with the old people at the home.

4		➢ Third Year Students visited **HOPE Residential Home & Vocational Training centre, Pattabiram** on Dec03rd 2023,as a part of the NGO Activity and interacted with the old people at the home.
5	Paper Published:	➢ R. Vezhavendhan, prakash babu kanakavalli, sri harsha arigela, a. Chandrashekhar, r. Sathish, sanjeev kumar joshi, j. Samson isaac," **Nano fluids in production of sustainable biofuels and bio plastics**", oxidation communications.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1. **FDP/Workshop:**
   The following staff members have participated in various FDP/Workshop conducted by other institutions during the month of December at National/International level.

S. No.	Name of the Staff	FDP/ Workshop Program Title	Host Institution	Date	Duration
1.	Dr.R.Avudaiammal	AI Tools for Streamlining Academic Research and Paper Writing	Scientific Research Reports, Chennai, India	5.12.23 to 09.12.23	5 days
2.	Dr.G.Sivagurunathan	Artificial Intelligence Techniques For Real Time Applications	Narayanaguru College of Engineering	11.12.23 to 15.12.23	5 days

2. **Publications:**
   The following staff members have published the research papers in Journal/Conferences organized during the month of December at International/National Level.

S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Publication
1.	R. Deepa, T. Sree Sharmila , R. Niruban	Dynamic graph neural network-based computational paradigm for video summarization	Multimedia Tools and Applications	Scopus,Sci Indexed	Dec 2023

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)	Criterion
1.	**IEEE activities** *PIC: EVENT POSTER*	IEEE Student Branch Chapter of St. Joseph's College of Engineering, organized a series of webinars titled "EXPERT TALKS - TALES OF TRIUMPH." The seventh session, held on 04-12-23, featured Mr. Abishlal N S, Mentor of IEEE SJCE SB website Team. The main motive of this event was to bridge the gap between the past and present. During this session, the speaker shared his insights about his IEEE journey, and the interaction with students was highly engaging. Approximately 25 students participated through Google Meet. As a token of appreciation, E-certificates were issued to all the participants.	4

2.	**IEEE activities**	Reflecting on the success of our impactful online event, "**Lumina**," jointly presented **by IEEE PELS SJCE SB** and **IEEE PELS Madras Chapter**, held on **08/12/2023** from **6:00 to 7:00 PM,** it was a compelling exploration of solar energy's theme, aimed at advancing renewable energy systems. The event featured the esteemed **Mr. Anuj Sharma**, Founder & CEO of Chip Web Technologies, whose insightful contributions added significant value. Mr. Sharma's expertise provided a deep dive into the intricate landscape of solar energy, illuminating the audience with the latest developments and innovations in the field. Participants gained invaluable insights, contributing to an enhanced understanding of solar technology and its transformative impact on renewable energy systems. "**Lumina**" stood as a testament to our commitment to technological progress, showcasing excellence in power electronics and renewable energy.	4
	PIC: EVENT POSTER		

3.	**IEEE activities**	The **IEEE Solid-State Circuits Society** of St. Joseph's College of Engineering hosted a webinar titled **"MAGIC DRONES"** on December 11th, 2023, from 6 PM to 7 PM. The event featured a presentation by Mr. SHIVAM CHAUHAN, on the topic "UNMANNED AERIAL VEHICLES(UAV)." Participants included students from Department of Electrical and Electronics Engineering. Throughout the session, students exploring this paradigm shift developed a robust foundation in understanding the principles of cognitive learning. It is anticipated that this foundational knowledge will provide students with a broader perspective on the capabilities and limitations of intelligent systems. The event, conducted over Google Meet, attracted the participation of approximately 35 students. As a gesture of appreciation, participants were presented with E-certificates.	4
	PIC: EVENT POSTER		

4.	**IEEE activities**	On December 11, 2023, from 8:00 AM to 9:00 AM, St. Joseph's College of **Engineering's IEEE Computational Intelligence Society** hosted a seminar with the theme **"Get Set-Go!".** Giving definite ideas to the finalists of the Smart India Hackathon-2023 was the primary goal of this event. The Head of the Department of Information Technology, Ms.Lathaselvi, gave a welcome speech to kick off the event. Mr. Praveen V, a proud alumnus who works as a web developer at Zoho at the moment, served as the resource person. It should be mentioned that he won SIH'2022, as well. Mr. Praveen gave the students on the short list a valuable glimpse into his experience in SIH '22. We encouraged participants to ask questions, and our alumni were happy to answer them without holding back. All things considered, this event was a huge success, and the management expressed gratitude for the organising.	4
	  PIC: EVENT POSTER		
5.	**IEEE activities**	The IEEE Power and Energy Society at St. Joseph's College of Engineering hosted a webinar titled "NEUROBYTES" on December 14, 2023, from 11 AM to 12 PM. The event featured a presentation by Dr. R. ELAKKIYA on the topic "PARADIGM SHIFT FROM MACHINE LEARNING TO COGNITIVE LEARNING." Participants included students from the Pre-Final year of the Department of Electrical and Electronics Engineering. Throughout the session, students exploring this paradigm shift developed	4

PIC: EVENT POSTER

a robust foundation in understanding the principles of cognitive learning. It is anticipated that this foundational knowledge will provide students with a broader perspective on the capabilities and limitations of intelligent systems. The event, conducted over Google Meet, attracted the participation of approximately 20 students. As a gesture of appreciation, participants were presented with E-certificates.
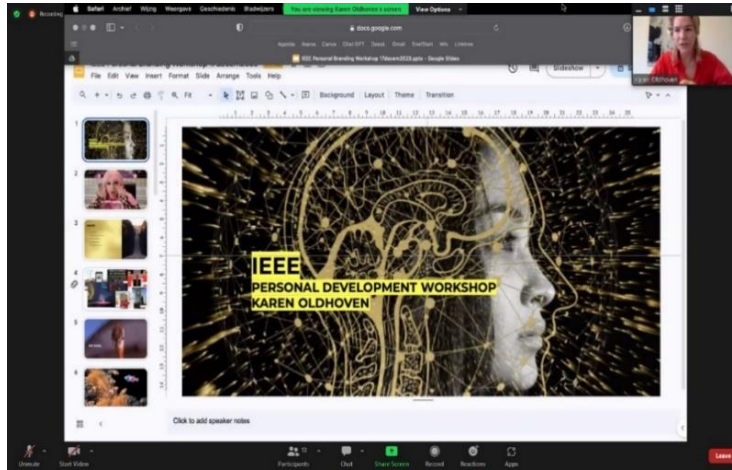
| 6. | **IEEE activities**

PIC: EVENT POSTER | The IEEE Power and Energy Society of St. Joseph's College of Engineering conducted a webinar, "GLITZ GLAM," on 14-12-2023. The topic of the event was "ROLE OF AI IN ENERGY AND POWER ENGINEERING: TECHNOLOGICAL TRENDS AND RESEARCH DIRECTIONS," presented by Dr. Vandana Sharma. Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering participated The motive of the event was to educate students about power and energy. During this webinar, students gained knowledge about technological trends and research directions in power and Energy field. Approximately 25 students took part in this event over Gmeet. The participants were rewarded with E-certificates as a token of appreciation. | 4 |

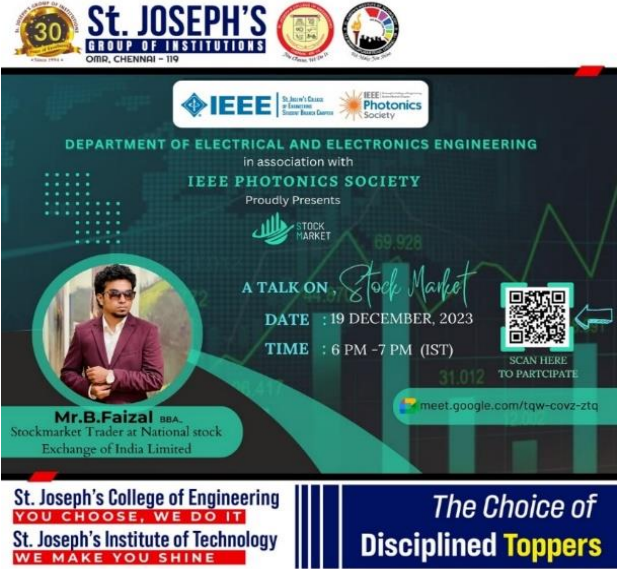| 7.	**IEEE Activities**	"Unleash Potential - A Webinar Session," co-hosted by IEEE POWER ELECTRONICS SOCIETY in collaboration with IEEE WOMEN IN ENGINEERING AFFINITY GROUP and in association with the IEEE Student Branch Chapter of St. Joseph's College of Engineering, scheduled for 17/12/2023 from 1:30 PM to 3:00 PM (IST). The distinguished speaker, Ms. Karen Oldhoven Head of Branding & Comms TEDxAmsterdam Women, promises to bring significant value with her expertise. As we embark on this webinar, we aim to delve into the intricacies of personal development, gaining invaluable insights that contribute to the enhancement of individual growth.	4
	PIC: EVENT PHOTO		

| 8. | **IEEE Activities**

PIC: EVENT PHOTO | *Choppers Club* in associated with IEEE SJCE SB hosted a technical event **"SPARK SPECTRA QUEST''** on **18th DECEMBER 2023.** This event began at 1:40 pm with all of our club members present. The event signalled the start of identifying the latent talents of our students. Around 30 students were participated in offline . An overall insight about the event were given to the participants. Before each round, the competition's regulations were outlined. Participants with higher scores were shortlisted for further rounds, and we finally announce the top three winners. For their exceptional contributions to the event, they received certificates of appreciation. With the energy of our pupils, the event went on. | 4 |

9.	**IEEE activities** *PIC: EVENT POSTER*	The **Photonics Society**, in collaboration with the IEEE Student Branch at St. Joseph's College of Engineering, successfully organized an enlightening event on **"Stock Market Exchange"** on December 19th. The distinguished speaker, Mr. B. Faizal, a seasoned stock market trader at the National Stock Exchange of India Limited, shared invaluable insights with 28 participants comprising enthusiastic student members. The event aimed to educate attendees on the fundamentals of stock market trading, providing guidance on trading techniques and highlighting crucial parameters to consider when making stock investments. Mr. Faizal's expertise contributed to a comprehensive understanding of stock market dynamics, making the event a valuable resource for students keen on exploring the world of financial markets. E-certificates were provided to all the participants.	4
10.	**IEEE activities**	The **IEEE Power and Energy Society** of St. Joseph's College of Engineering conducted a webinar, **"CYBER PROTECTOR,"** on 20-12-2023. The topic of the event was "INTRODUCTION TO CYBERSECURITY FUNDAMENTALS: UNDERSTANDING THREATS AND VULNERABILITIES,"	4

	  PIC: EVENT POSTER	presented by Dr. Doreen Robin .Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering participated .The motive of the event was to educate students about the recent threats . During this webinar students gained a solid foundation in cybersecurity fundamentals, enabling them to understand the threats and vulnerabilities that exist in the digital landscape.. Approximately 30 students took part in this event over Gmeet . The participants were rewarded with E-certificates as a token of appreciation.	
11.	**IEEE activities** 	**SOCIAL AWARENESS CLUB in Association with IEEE SJCE SB** organized a technical event "EMPATHIE ENGAGEMENT" on 20th DECEMBER 2023. This exclusive event started at 9:40AM with all the members of our club. The event was started with full enthusiasm by exploring the hidden talents of the students .Around 45 students participated in offline .This event consists of two round .The rules of the event were explained before each round .Participants with higher score were shortlisted for further rounds. and finally we declare top two winners.	4

	PIC: EVENT PHOTO	They were honoured with certificates for their outstanding contributions during the event. The event continued with the enthusiasm of our students. The program ended with a photo session.	
12.	**IEEE activities** PIC: EVENT POSTER	**IEEE St. Joseph's College of Engineering Student Branch Chapter,** in collaboration with Techknots Pvt Ltd, hosted the **one-day "Wing Wrap" workshop** on December 21st, 2023, from 8:00 AM to 3:00 PM at Block 7, Smart Room. With a focus on "Exploring the World of Drone Technology and IoT," the event featured a hands-on session conducted by Mr. Nixon E, R&D EV Engineer and Founder of Techknots Academy, along with Mr. Sriram K, Director of TG Cyberlabs Private Limited. The workshop catered to 60 pre-final year students from the Department of Electrical and Electronic Engineering, offering a comprehensive exploration of drone technology and IoT applications, providing invaluable insights and practical experience in the field. E-certificates were provided to all the participants.	4
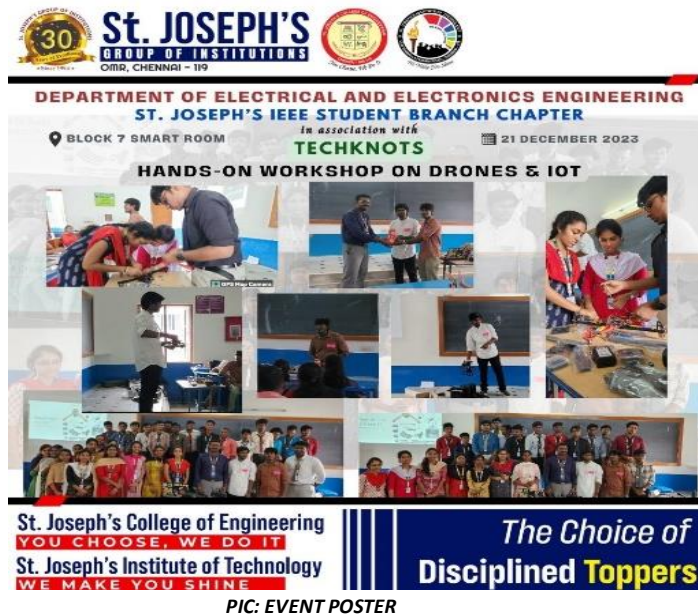
13.	IEEE activities	IEEE St.joseph's College of engineering student chapter in associated with IEEE RAS SJCE SB conducted an International webinar series "ERUDITE'23" SEASON 8 on 23-12-2023. The topic of the first session was **"FUTURE TRENDS OF EAI-EXPLAINABLE ARTIFICIAL INTELLIGENCE"** presented by Dr. Nallakarupan Kailasanathan. Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering participated. The event aims to highlight artificial intelligence as a reflection of human ingenuity, fostering awareness and inspiring exploration in the rapidly evolving field. During this webinar, students gained knowledge about future trends in Artificial Intelligence and its reflection of human ingenuity. Approximately 35 students took part in this event over Gmeet. The participants were rewarded with E-certificates as a token of appreciation.	4

PIC: EVENT POSTER

| 14.	**IEEE activities**	IEEE PELS SJCE SB conducted an international webinar series "ERUDITE'23" SEASON 8 on 27-12-2023. The topic of the second session was **"EQUIPMENT LIFE CYCLE"** presented by Mr. Ntozeliswe B Mqenebe. Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering participated. The event aims particularly in the context of Maintenance and Reliability. The event covers various aspects such as maintenance procedures, predictive maintenance programs, and the optimization of asset availability and utilization. The webinar likely focuses on enhancing participants' understanding of maintaining equipment efficiently throughout its life cycle, ensuring reliability, and optimizing performance. Approximately 35 students took part in this event over Gmeet. The participants were rewarded with E-certificates as a token of appreciation.	4
15.	**IEEE activities**	**IEEE St. Joseph's College of Engineering student chapter** in association with IEEE PES SJCE SB conducted an international webinar series "ERUDITE'23" SEASON 8 on 28-12-2023. The topic of the third session was on **"EMERGING TRENDS IN WIND ENERGY RESEARCH"** presented by Dr.Karunamoorthy Neethimani. Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering	4

PIC: EVENT POSTER

	  PIC: EVENT POSTER	participated. The event aims on delving into the latest advancements and future prospects within the wind energy industry. The discussions likely covered technological innovations, such as improved turbine designs, advancements in energy storage related to wind power & grid integration strategies .Approximately 30 students took part in this event over Gmeet. The participants were rewarded with E-certificates as a token of appreciation.	
16.	**IEEE activities**	**IEEE St. Joseph's College of Engineering student chapter** in association with IEEE IAS SJCE SB conducted an international webinar series "ERUDITE'23" SEASON 8 on 30-12-2023. The topic of the fourth session was " **secret of research excellence"** presented by Dr.Celestine Iwendi. Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering participated.Certainly, the speaker probably highlighted the importance of networking in the research community, emphasizing collaborations,	4

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knowledge exchange, and staying connected with peers and experts in the field. Building a strong professional network can contribute significantly to research excellence.. Approximately 35 students took part in this event over Gmeet. The participants were rewarded with E-certificates as a token of appreciation.

| 17. | **IEEE activities**

PIC: EVENT POSTER | **The IEEE Power and Energy Society** of St. Joseph's College of Engineering conducted a technical event, "MARKMINGLE," from 26-12-2023 to 30-12-2023. Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering participated. The event's goal is to motivate students to undertake projects. In this event, students need to choose one project, analyze it, and then the description, specifications of the project and the materials used to complete the project will be uploaded in the Google Form. Around 10 students participated. The winners were selected based on the satisfaction of the juries and will be rewarded. The participants were rewarded with E-certificates as a token of appreciation. | 4 |

| 18. | **IEEE activities**
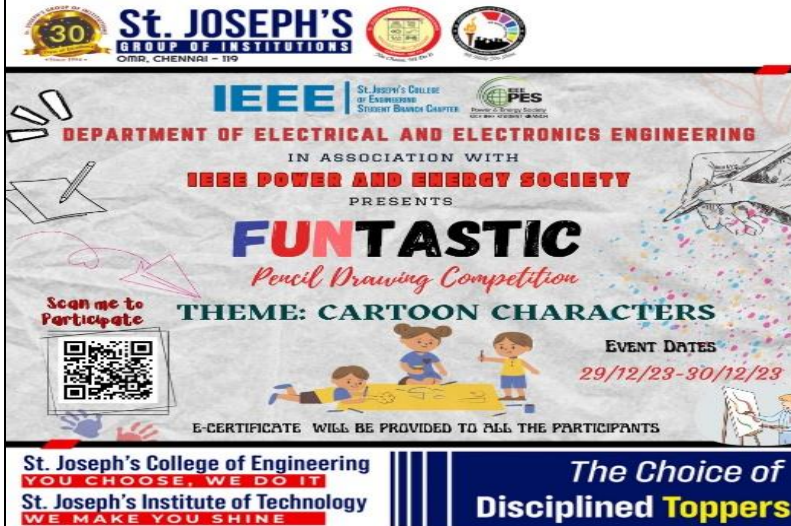
PIC: EVENT POSTER | The **IEEE Power and Energy Society** of St. Joseph's College of Engineering conducted a non-technical event, "**FUNTASTIC,**" from December 29, 2023, to December 30, 2023. Students from various colleges participated. The event is all about fun and bringing college students back to their childhood. In this event, college students need to draw their favorite cartoon characters and upload them to the Google Form provided by us. We hope it gives them some nostalgic memories, for sure. Around 10 students participated. The winners were selected based on the satisfaction of the juries and will be rewarded. The participants were rewarded with e-certificates as a token of appreciation. | 4 |
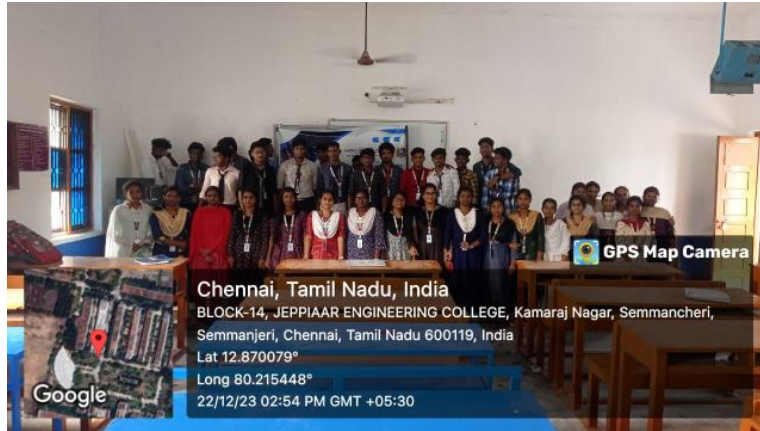
19.	**ISTE activity**	**ISTE CLUB in association with IEEE SJCE SB** organized a technical event **" TECH SPECTRA "** on 22/12/2023. This exclusive event started at 1:40 PM with all the members of our club. Abiding the famous quote "Talent hits a target no one else can hit; Genius hits a target no one else can see" the event started exploring the hidden talent of our students through this event. Around 30 students were participated in the offline. The rules of the event were explained before the event starts. Participants with higher score were shortlisted for further rounds and finally we declared top three winners. They were honoured with Merit certificates for their outstanding contributions during the event. The event continued with the enthusiasm of our students. The program ended with a photo session.	4
	 PIC: EVENT PHOTO		

| 20. | **Club Activity**
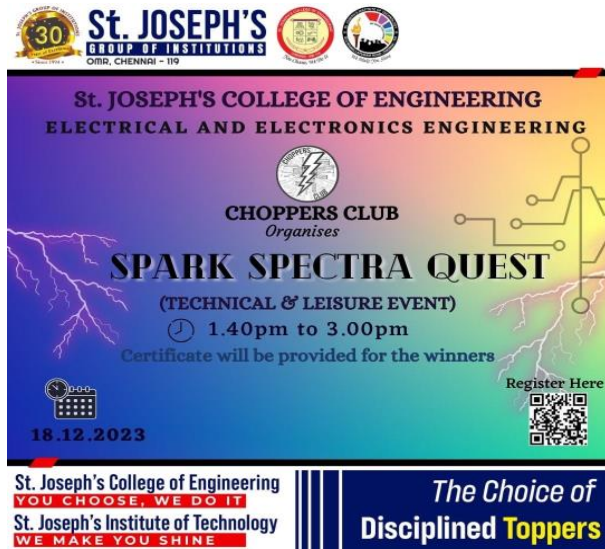
PIC: EVENT POSTER | St. Joseph's College of Engineering, (Electrical & Electronics Engineering) *Choppers Club* hosted a technical event **"SPARK SPECTRA QUEST"** on **18th DECEMBER 2023.** This event began at 1:40 pm with all of our club members present. The event signalled the start of identifying the latent talents of our students. | 4 |

21.	**Club Activity**	St. Joseph's College of Engineering, (Electrical & Electronics Engineering) SOCIAL AWARENESS CLUB organized a technical event **"EMPATHIE ENGAGEMENT"** on 20th **DECEMBER 2023**. This exclusive event started at 9:40AM with all the members of our club. The event was started with full enthusiasm by exploring the hidden talents of the students.	4
	PIC: EVENT POSTER		
22.	**VOCABULARY TEST SERIES**	Our department of Electrical and Electronics Engineering, Lingual Clique club has organized word power vocabulary test series for the students. The test series helped the students to improve their communication skills. Test 14 - 01/12/23 Test 15 - 15/12/23 Test 16 - 22 /12/23 Test 17 - 29/12/23	4
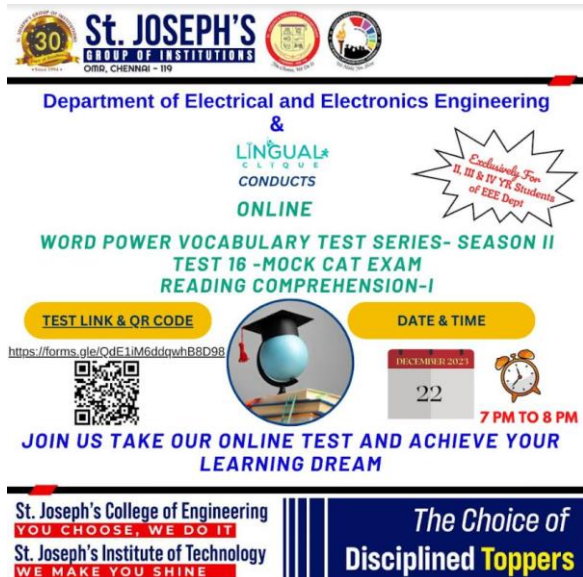
		 PIC: EVENT POSTER	
23.	**National level competition**	**SMART INDIA HACKATHON 2023 FINALIST**: **TEAM NAME: Threat Terminus** **TEAM MEMBERS: M. Ram Praveen, P. Saran, P. Srinath, B. Santhosh, M. R. Srenithy, T. Sujitha.** **MENTOR NAME: Mrs.C.RamaDevi, Mr.A.Sadeesh Kumar** **SIH23** was conducted on 19th and 20th of December 2023 at **Noida Institute of Engineering and Technology, Greater Noida, Uttar Pradesh.** It lasts for 36hrs.Our problem	4

		statement is "To develop a ransomware readiness assessment tool". Our solution tool is to assess ransomware readiness of organization. To determine the security levels of an organization, we conduct security assessments. This assessment is intended for an organization's cyber officials. We included IT sector, banking, healthcare, government and public services, and telecom.	
	 PIC: EVENT PHOTO		
24.	**Faculty Development Program**	Participated in NPTEL-AICTE FDP titled 1.Dr.N.Chidambararaj - Smart Grid: Basics to advanced technologies" 2.Dr.V.Krishnakumar-Renewable energy based electric vehicle technologies". 3.Mr.R.Elanthirayan- Generative AI and its Applications at DMI 4. Mr.C.Venkatesh Kumar-Emerging trends in Artificial Intelligence and Deep Learning 5.Mr.V.Balasubramanian-"Automation in Manufacturing"	5

25.	**Faculty awards and recognitions**	**1.Mr.R.Sreekanth**, Received IEEE India Council Award Outstanding Volunteer of the year on 15 th December 2023 during IEEE India council awards Night held at Hyderabad. **2.Dr.M.RameshBabu,** Acted as session Chair in 3rd International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES -2023) on the topic Electric Vehicles & Smart Energy System (Track 7) on 15.12.2023. 3 **Dr.M.RameshBabu,**.Reviewed a paper in IEEE Access on 10.12.2023.	**5**
26.	PLACEMENT DETAILS FOR THE MONTH OF DECEMBER 2023	**2020-2024 Batch** Total No of students placed = 41 Students Total No of Offers = 46 Offers No of students having single offers = 42 No of students having Double offers = 3 No of students having Triple offers = 1 No of students having Quadruple offers = 0	**4**
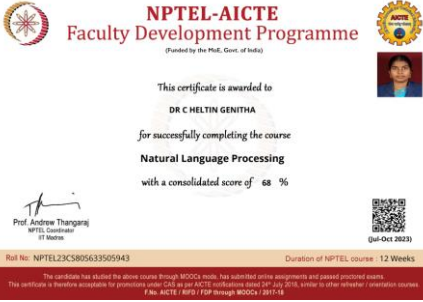
DEPARTMENT OF MBA

FACULTY PUBLICATION / PATENT:	Dr.A.Arun has published a Patent on "Improving Global Financial Modeling Through Big Data Analytics"
FACULTY FDP / STTP / CONFERENCE / SEMINAR PARTICIPATION:	Dr. A. Ammupriya participated in " 5 DAYS ONLINE WORKSHOP ON SPSS IN RESEARCH" organized by Star International Foundation for Research and Education on 26.12.2023 to 30.12.2023. Dr.A.Arun recognised for his contribution as 2023 5th International Conference on Soft Computing and its Engineering Applications (icSoftComp2023)vorganized by Smt. Chandaben Mohanbhai Patel Institute of Computer Applications,vCharotar University of Science and Technology (CHARUSAT), Changa, Indiavduring December 07-09, 2023. Dr Subalya S has actively participated in " 5 DAYS ONLINE WORKSHOP ON SPSS IN RESEARCH " organized by Star International Foundation for Research and Educationon 26.12.2023 to 30.12.2023. Dr. G.NIRMALA has successfully Participated in the Online 5-Days Faculty Development Program on ChatGPT & AI tools for Academician Organized by Department of Logistics & Shipping held on 27th November to 01st December 2023 at ASET COLLEGE OF SCIENCE & TECHNOLOGY, Chennai.

DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	**FDP/Workshop/Conference**	1. Dr. N. Punitha attended National webinar on "Advancements in supercapacitor Technology: Energy storage for the futures" conducted by "SR University, Warangal." On 30.12.2023. 2. Dr. S.M. Prakash attended six days International webinar on "Chemistry Beyond Borders - A Global Webinar SerieS" conducted by "SRM Institute Of Science And Technology Ramapuram Campus, Chennai - 89." held between 18.12.2023 and 23.12.2023. 3. Dr. N. Punitha attended five days International online workshop on "SPSS in Research" conducted by "Star International Foundation for Research and Education, Thiruchengode" held between 26.12.2023 and 30.12.2023.
2	**Awards/Prize won by students / Staff**	1. Dr. P. Krishnan received Aram - Academic Star Excellence Award from Aram Seyya Virumbu Arakkattalai, Chennai on 17.12.2023
3	**Publications(only published) details**	1. Dr. A. Arulmozhi published a paper titled "Melting heat effect in MHD flow of maxwell fluid with zero mass flux" in the journal of "Case Studies in Thermal Engineering". DOI: https://doi.org/10.1016/j.csite.2023.103910" 2. Dr. P. Krishnan published a short communication titled "Enhanced electrochemical and thermal stability of CdS:Pb2+, Cu2+ co-doped nanoparticles on energy storage applications," in the journal of "Inorganic Chemistry Communications". DOI: https://doi.org/10.1016/j.inoche.2023.111881 3. Dr. K. Jayamoorthy published a paper titled "Synthesis, structure, preliminary antimicrobial and antimalarial studies of 1,1′-(piperazine-1,4-diyl)bis(2-phenylethan-1-one) and its lanthanide, Ce(III), Pr(III), and Nd(III) complexes" in "Journal of Molecular Structure". DOI: https://doi.org/10.1016/j.molstruc.2023.137287" *Patent Publication:* 1. Dr. G. Sasikumar published a patent titled "Green Technologies for synthesizing nanomaterials, with a focus on metal as well as metal oxide - Application number 202341078493" –in the Indian Patent Journal dated 29.12.2023. *Patent Grant:* 1. Dr. P. Saravanan has awarded with a patent grant titled "Solar and Wind Powered Electric Vehicle- Patent number 397352-001" –on 14.12.2023.

DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event/Screenshot	Corresponding remarks in regarding the status of activity execution
1.	**Author** **Dr.Muthulakshmi V** Published a paper in Scopus Indexed	## Student and Staff Paper Publication **Muthulakshmi, V**. and Hemapriya, N. 'CNN-based Dermoscopic Analysis of Vascular Skin Lesions in the Prognosis of Skin Lesion Sarcoma Based on Ensemble Learning', Journal of Intelligent & Fuzzy Systems, https://doi.org/10.3233/JIFS-230426, Print ISSN 1064-1246, online ISSN 1875-8967 vol. 45, no. 6, pp. 11515–11534, 02 December 2023 **(Impact Factor: 2, Indexed in Scopus)** **Abstract:** The advent of deep learning techniques has ignited interest in medical image processing. The proposed work in this paper suggests one of the edge technologies in deep learning, which is recommended, based on a Radiomics feature extraction model for the effective detection of Kaposi sarcoma, a vascular skin lesion expression that indicates the most prevalent cancer in AIDS patients. This work investigates the role and impact of medical image fusion on deep feature learning based on ensemble learning in the medical domain. The model is crafted wherein the pre-built ResNet50 (Residual network) and Visual Geometry Group (VGG16) are fine-tuned and an ensemble learning approach is applied. The pre-defined CNN was incrementally regulated to determine the appropriate standards for classification efficiency improvements. Our findings show that layer-by-layer fine-tuning can improve the performance of middle and deep layers. This work would serve the purpose of masking and classification of skin lesion images, primarily sarcoma using an ensemble approach. Our proposed assisted framework could be deployed in assisting radiologists by classifying Kaposi sarcoma as well as other related skin lesion diseases, based on the positive classification findings.

NPTEL Certification by Faculty

Sample NPTEL Certificate

S.No	Name of the Staff	Name of the Course	Period	Credit
1.	Mrs.Lathaselvi G	Natural Language Processing	12 weeks course	Completed
2.	Dr. Muthu Lakshmi V	Natural Language Processing	12 weeks course	Completed
3.	Dr. HeltinGenitha C	Natural Language Processing	12 weeks course	Elite
4.	Dr. Tamizhselvi A	Natural Language Processing	12 weeks course	Completed
5.	Dr. Sumathi S	Natural Language Processing	12 weeks course	Completed

		6.	Mrs.Janani M	Natural Language Processing	12 weeks course	Elite
		7.	Mrs.Shoba R	Introduction to IOT	12 weeks course	Elite

3		**FDP/Workshop attended by Faculty**				
	Sample FDP Certificate	S.No	Title of the topic	Name of the Staff	Conducted By	Date
		1.	Stress Management	Ms.Abinaya K Samy	ICT Acadamey, Chennai	27-11-23 to 1-12-23(5 days)
		2.	National Faculty Development Program on NLP, Computer Vision & AI	Mrs.Divya J	Andhra Pradesh State Skill Development Corporation (APSSDC) in Collaboration with ExcelR Edtech Pvt. Ltd.	4/12/2023 to 8/12/2023(5 days)
		3.	Building Advanced Data Analytics Applications with cloud	Mrs.G Supraja	Next Gen Employability Program	11/12/2023 to 15/12/2023(5 days)
		4.	Building Advanced Data Analytics Applications with cloud	Mrs.Elakiya E	Next Gen Employability Program	11/12/2023 to 15/12/2023(5 days)
		5.	Building Advanced Data Analytics Applications with cloud	Mrs.Anitha	Next Gen Employability Program	11/12/2023 to 15/12/2023(5 days)
		6.	Building Advanced Data Analytics Applications with cloud	Mrs.Jeyapriya D	Next Gen Employability Program	11/12/2023 to 15/12/2023(5 days)
		7.	Digital Prototyping using CATIA	Mrs.R.Shoba	ICT Academy	27/11/2023 to 01/12/2023((5 days)

		8.	Palo Alto Cloud Security Fundamentals	Mr.A Abdur Rahman	ICT Academy	18/12/2023 to 22/12/2023(5 days)	
		9.	Salesforce Platform Developer 1 (Online FDP)	Ms.M.Nandhini	ICT Academy	18/12/2023 to 22/12/2023(5 days)	

4	Appreciation Certificate of Ms.J.Divya	**Faculty Interaction with Outside World** **Title of the session:** Machine Learning with Kaggle **Conducted by:** St. Joseph's College of Engineering in association with Google for Developers Session Hosted by: Ms.J.Divya **Date:** 14-12-23 **No of Participants:** 180
5		**Students Achievement** **Title of the Event: Intelligent Automation Hackathon 2023** **Conducted by: Intelligent Automation** **Date: 8-12-2023&9-12-2023** **Team: Dot Bot** **No of Students Participated:6** **Mentor: J.Gnanasoundaram**

6		**Students Achievement** **Title of the Event: Smart India Hackathon** **Conducted by: Government of India** **Date: 18-12-2023&19-12-2023** **Team: Pipeline Broken** **No of Students Participated:6** **Mentor: J.Divya** **Problem Statement:1304 - Building admin dashboard for PGRKAM under Punjab Ministry**
7		**Students Achievement** **Title of the Event: Smart India Hackathon** **Conducted by: Government Of India** **Date: 18-12-2023&19-12-2023** **Team: Black Pearl_1** **No of Students Participated:6** **Mentor : J.Gnanasoundaram** **Problem Statement: Enhancing user experience and navigation on PGRKAM digital platform SIH1305 Punjab Ministry**

DEPARTMENT OF MATHEMATICS

Events	Remarks						
FDP/Workshop/Conference							
	S.No	Name of the staff	Title of FDP / Workshop	Organized by	Mode	From	To
	1	Dr.P. Priyadarshini	Mechanics of Effect Manuscript Drafting and Publications Process (Workshop)	Eudoxia Research University - ICER	Online	11-12-2023	12-12-2023
	Dr. J. Nancy gave an invited talk titled "Planarity and the Five Color Theorem" at Patrician College of Arts and Science, Chennai on December 1, 2023.						
Publications(only published) details	S. Prabhu, D. Sagaya Rani Jeba, **M. Arulperumjothi** & Sandi Klavžar (2023) Metric Dimension of Irregular Convex Triangular Networks, AKCE International Journal of Graphs and Combinatorics, DOI: 10.1080/09728600.2023.2280799, (SCIE)						

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**	A group of Nine students underwent an internship on Virtual Reality at TANSAM , Chennai from 19.12.2023 to 24.12.202**3.**
2.	**Publications (only published) details**	• R.Ruthra published a paper titled on **"Integrating Smart Technologies for Enhanced Traffic Management and Road Safety: A Data-Driven Approach"** in Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS).
3.	**Other activities (if any)**	• Dr.S.Thenmozhi published a patent on **"Smart Plastic Waste Management"** on 16/12/2022. Design Patent Number 369324-001