You Choose, We Do It

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

OCTOBER 2024

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

S.No.	Title of the Events and Photographs	Details of the Event
1.	**STUDENT ACHIEVEMENTS/COMPETITION ATTENDED BY STUDENTS**	**A Team of Third Year Students from the Department of Artificial Intelligence and Data Science and Second Year Student from the Department of Master of Business Administration have won the First Prize with cash reward of Rs. 10000 in Internal Software Hackathon - Innothon '24.**

Team Name: Billiance Team Members:

Ms. Hamsa Vardhini - III ADS, Mr. Jude Allen -III ADS,

Ms. Dharunika - III ADS,

Mr. Vaikunda Mani - II Year MBA Integrated.

Mentors:

Dr.R Pugalenthi, Professor and Head (ADS),

Dr.K.Jawahar Rani, Professor (MBA).

Problem Statement: AI Powered Shoplift Detection and Alert System.

2.		**MyGov Campus Ambassadors** **Our Third Year Students Ms. Mahatishri J and Mr. Adhitya S have been chosen as Campus Ambassadors for the MyGov Campus Ambassador Program.** **Oracle Certified Foundation AI Associate** **Our Second Year student Mr. Keshav Srinivas M, has became an Oracle Certified Foundation AI Associate.**

Microsoft Azure Certified

Ms Jeevitha M, Ms Sharmila L, Ms. Jenina Angelin D, Ms. Kasey Ann Britto, Mr. Dhanush Kumar R, Mr. Harisudhan S, Ms. Varnikaa D T, Ms. Atchaya S, Mr. Vishal G B and Mr. Dhaksin S , Final and Third Year Students from the Department of Artificial Intelligence and Data Science have successfully passed all requirements for Microsoft Certified: Azure AI Fundamentals

Guest Speaker at a Azure Community event in Microsoft Campus

Our Final Year Student, Mr. Dhanush Kumar R, has served as a Guest Speaker at a Azure Community event in Microsoft Campus, Chennai.

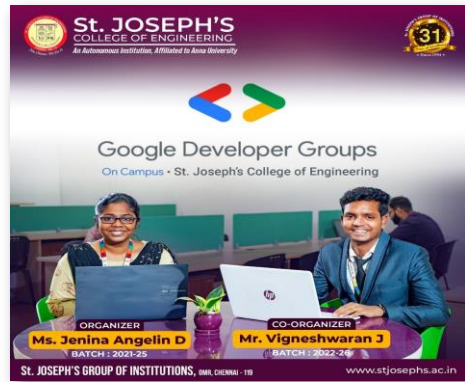|	
	Google Developer Groups **Our Final Year Student Ms Jenina Angelin, has been the part of Google Developer Groups – as an Organizer.**

St. JOSEPH'S
COLLEGE OF ENGINEERING
An Autonomous Institution, Affiliated to Anna University

Google Developer Groups
On Campus · St. Joseph's College of Engineering

ORGANIZER
Ms. Jenina Angelin D
BATCH : 2021-25

CO-ORGANIZER
Mr. Vigneshwaran J
BATCH : 2022-26

St. JOSEPH'S GROUP OF INSTITUTIONS, OMR, CHENNAI - 119   www.stjosephs.ac.in

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	Expert Talk - "AI Powered future: How Microsoft Applied Skills can shape your career path"	Date: 5-10-2024 Venue: Virtual Nature of Event: Expert Talk Participants: II CSE STUDENTS Organized by: Department of CSE **Objective:** • To disseminate specialized information or insights on a specific topic. • To motivate and inspire the audience through personal experiences and success stories. • To foster interaction and discussion among participants, encouraging questions and dialogue. • To provide practical tips and strategies that attendees can apply in their own contexts. Outcome: • Attendees gain a deeper understanding of the topic discussed, including new concepts and trends. • Participants may leave with practical tools and techniques that they can apply in their own work or studies. • Connections are made between the expert and attendees, as well as among participants, fostering collaboration and future discussions. • Attendees often feel inspired by the expert's experiences and insights, encouraging them to pursue their own goals.

2	Alumni talk - "Mr.Hemachandran S.N" from batch 2010-2014	
		Date: 10-6-2024 **Venue:** Virtual **Nature of Event:** Alumni talk Participant: IV-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.

3	CAREER DEVELOPMENT TRAINING – II YEARS	
		Date: Model 2 examination **Venue:** CSE LAB **Nature of Event:** Career development Training Participant: II-year Students Organized by: Department of CSE Objective: • To equip participants with specific skills relevant to their desired career paths, enhancing their employability. • To provide insights into industry trends, standards, and expectations, helping participants understand the job market better. • To foster personal development, including soft skills like communication, teamwork, and leadership. • To assist individuals in identifying career goals and developing a roadmap to achieve them. Outcome: • Participants become more attractive to employers by acquiring relevant skills and knowledge. • Individuals gain proficiency in specific technical or soft skills, making them more competent in their roles. • Training often boosts participants' confidence in their abilities, which can improve their performance in job interviews and workplace settings. • Many individuals experience improved job prospects, promotions, or transitions to more fulfilling career paths as a result of their training.

4	CAREER GUIDANCE MEETING - III YEAR	
		Date: 14-10-2024 **Venue:** CSE LAB **Nature of Event:** Career Guidance Meeting Participant: III-year Students Organized by: Department of CSE Objective: - To help individuals assess their skills, interests, values, and personality traits, facilitating greater self-awareness. - To provide information about various career paths, industries, and job roles that align with the individual's profile. - To assist participants in defining short-term and long-term career goals, creating a clear direction for their professional journey. - To evaluate current skills and identify areas for development, ensuring participants are equipped for their desired careers. Outcome: - Participants gain a better understanding of their interests, strengths, and values, helping them identify suitable career paths. - Individuals receive information about various careers, job markets, and educational opportunities, enabling them to make informed choices. - Attendees often leave with clear, achievable career goals and a roadmap for how to reach them. - Participants can identify skills they need to develop or enhance for their desired career, leading to targeted training or education. .

DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	**Student Chapter Activities:** 	The Standards Club of St.Joseph's College of Engineering's BIS Club Mentor, Mr. KMB. Karthikeyan, oversaw the event. Mr. K. Gnanasekaran, the mentor, gave the students instructions to the students for the planned technical. The valedictory function was presided over by Mr G. Saravanan BE MBA M.Sc. (PMV) FIE FIV FIIPE C Engg(I), Chief General Manager, ITCOT Limited, a Joint Venture of IFCI, SIPCOT, TIIC, SIDCO Banks.

2			Department of Mechanical engineering organized a technical Event sponsored by Bureau of Indian Standard(BIS). A Govt of India Initiative on 14th October 2024, four event were conducted and four positions were felicitated with cash prizes. The event was inaugurated by Dr. N. Arunkumar, Dean of IC&IQAC, andDr. L. Balamurugan,Head of the Mechanical Department.
3			Department of Mechanical Engineering & Indian institute of Welding (IIW) Jointly organized a Inter chapter Technical Fest & Competition 2024 on 21st October 2024. Dr. V. Balasubramanian, Director, CEMAJOR, Annamalai University, Chairman IIW Chennai Chapter, Felicitated the program and quiz and technical presentation was conducted and nearly 60 students participated in the event and first three positions were felicitated with certificate and cash prize sponsored by Meera Laser Solutions.

| 4 | | Department of Mechanical Engineering, Organized a Workshop on 09th October 2024 in the topic Drone Design, Development and Assembly in partnering with Deca Drives Pvt Ltd. This comprehensive program aimed to bridge the gap between theoretical knowledge and practical application, providing students with hands-on experience in drone technology. A total of 50 Students from Second, third and Final year students got benefited using this program |

| 5 | | On 17th October 2024, Department of Mechanical Engineering, Organized a career guidance meeting for third-year students with their parents. During the meeting the progress and steps to be taken to enhance the individual students discussed. |

6		Mr. M. Ganesh, Assistant Professor from Department of Mechanical Engineering, Completed his Viva Voce on 21st October 2024 and received his degree on 27/10/2024 on the topic " Investigation on Deep Hole Drilling under Cryogenic Cooling Environment" Under the Guidance of Dr. N.Arunkumar.
7	Faculty Acheivements:	- Dr. N. Arunkumar, Professor & Dean, Mr. M. Ganesh & Mr. M. Siva, Assistant Professors, Dr. G.M. Lionus Leo, Associate Professor from the Department of Mechanical Engineering Published an article titled " Experimental investigation on sustainable machining of Monel using vegetable oils as cutting fluids and machine learning-based surface roughness prediction" in "Engineering Research Express". - Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering has Successfully Published a Patent titled "Experimental Investigation of Mechanical Properties of Sisal and Jute Fiber Reinforced 202441071443 Composites" on 04/10/2024. - Mr.J.Vijayanand & Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering has Successfully Published a Patent titled "Experimental Investigation of Tamarind Seed Powder and Glass Fiber Reinforced Composites" on 04/10/2024. Application No: 202441070196

	➢ Mr. T. Balasubramanian, Assistant Professor from Mechanical Department Secured Elite Silver Certificate in Product Design and Development inAssociation with IIT Roorkee. ➢ Mr. K. Pravinkumar, Assistant Professor from Mechanical Department secured Elite certificate in the Welding Application Technology in NPTEL exam in association with IIT Guwahati. ➢ Mr.K.Gnanasekaran, Assistant Professor from the Department of Mechanical Engineering Published a Text Book titled "Renewable Energy Systems " in Quill Tech Publication, ISBN 978-93-6786-963-5 • ➢ K. Gnanasekaran, Assistant Professor from the Department of Mechanical Engineering published a patent titled "Design and fabrication on bench test of electric two wheeler" . Application Number .Application no: 202441071428 • ➢ K. Gnanasekaran, Assistant Professor from the Department of Mechanical Engineering published a blade grass cutter" patenttitled "Solar powered three Application Number .202441071427 ➢ Mr. K. M. B . Karthikeyan and Mr. K. Gnanasekaran, Assistant Professor, Department of Mechanical Engineering received a grant fund of Rs. 60,000/- for conducting technical events in Bureau of indian standards BIS (Students professional activities)

	- Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering Published an article titled "Advanced Robotics in Manufacturing: Engineering Innovations and Management Implications" in Scopus Indexed Journal "Nanotechnology Perceptions" Vol.20, S11 (2024) 633- 646 (ISSN 1660-6795) on September 14, 2024. - Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering Published a Text Book titled "Strength of Materials" in Alpha International Publication, ISBN 978-93-5762-775-7. - Dr. M. Arun & Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering has Successfully Published a Patent titled "Enhancing Polymer Composites with Recycled Jute Fibers from Carpet Waste: Transforming Jute Fibers into High Performance Natural Fiber Composites" on 18/10/2024.Application No: 202441075589 - Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering has presented paper entitled "A Fusion of SVR and Fully Connected Networks for Improved RUL Prediction of Lithium Ion Batteries" in 2024, 2nd Global Conference on Information Technologies and Communications (GCITC) during 25th and 26th of October 2024

| 8 | | ➢ Our mechanical engineering students appeared in the September 2024 Session of NPTEL Swayam Examinations. Among the attended list of students 138 students successfully cleared and got certification from various IITs. Were one student secured Elite Gold, Eight Students from Third Year Mechanical Secured Elite Certification and Fifteen Students from Final Year Mechanical Secured Elite Certification

➢ Mr. M. Ravikrishnan , III Year Mechanical Student Secured Elite Gold Certification and he is also recognized as Top 2% in Product Design and Development in NPTEL Sep 2024 Session.

➢ Mr. K. Kavikumar, Ms. P. Prakriti Harith, Mr. S. Karthik Kumar, IV Year Mechanical Student Secured Elite Silver Certification in NPTEL Sep 2024 Session. |
| 9. | | |

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Events conducted:

The following events have been conducted during October 2024 at College Level

1. Alumni Activities	Report
A) Mock Interview	
	The ECE Department of St. Joseph's College of Engineering organized a Mock Interview session on 5th October 2024, aimed at preparing 3rd-year ECE students for their upcoming placements. The event was organized by the ECE Placement Cell and took place at the Placement Block from 01:00 PM to 4:30 PM. The primary objective of this event was to provide students with an opportunity to experience a real-time interview scenario, gain valuable insights, and prepare for future placement opportunities.

2. Placement Activities

A) 5G Technology -Technical Session by NOKIA	**Report**

	Technical Session was hosted by ECE department to 5G students session handled by Mr.Veera and Poonam from Nokia. The workshop provided an overview of 5G and Multi-access Edge Computing (MEC) technologies. It discussed the shift from monolithic implementations to virtualized systems, highlighting the role of hypervisors and virtualization in optimizing resource utilization. The workshop also explored the benefits of MEC in reducing latency for real-time applications.
B) Retech Techno Solutions and Learning Saga LLP	**Report**

A six-day placement training program was conducted in ECE Department from 21st to 26th October 2024 by Retech Techno Solutions and Learning Saga LLP for 121 second-year ECE students with a CGPA of 7.5 and above. The program aimed to enhance students' technical skills in hardware and software domains. Hardware training focused on PCB design and IoT fundamentals, while software training covered C programming and data structures. This comprehensive training equipped students with practical skills, problem-

	solving abilities, and industry-relevant knowledge, preparing them for academic and professional challenges.
C) Syasan Empowers ECE Students with Future-Ready Skills	**Report**
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Third and final-year ECE students at recently underwent intensive training in UI/UX design, RDBMS & SQL, and ReactJS, conducted by Syasan's Career Analytics Technology Solutions. This initiative aims to equip students with essential software skills, making them more competitive in today's tech-driven job market. As the demand for user-centric and data-driven solutions grows, these skills are becoming increasingly important for ECE engineers. By mastering UI/UX, RDBMS & SQL, and ReactJS, students can contribute to the development |

	of innovative IoT devices, smart electronics, and web applications.
3. SEERA	
A) SEERA Activity - 1	**Report**
Student Employability Enhancement & Research Activity (SEERA) event on October 18,2024 aims to equip students with essential skills for a successful career path. The event |

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SEERA — STUDENT EMPLOYABILITY ENHANCEMENT & RESEARCH ACTIVITY

COMMUNICATION
Communication Excellence in Engineering
SANTHOSH .R
Staff Co-ordinator
Mrs. Madhumitha.R Asst.Prof.,
Mrs.Jasmine Mystica.K Asst.Prof.,
ECE Lab (Floor 1)

HIGHER PACKAGE PLACEMENT
The Road to Six Figure Salaries
BENITA JAEL .J
Staff Co-ordinator
Mrs. Angelin Ponrani.M Asst.Prof.,
Room No:121

SKILL RACK
SKILL RACK Practice
Dr.BalaMurugan.A.M Asso.Prof.,
ECE Lab (Floor 1)

SLOW LEARNERS
Signals & Systems
Dr.Ramachandra Reddy.K Asst. Prof.,
Room No:123

PLACEMENT
Effective Strategies for Placement
EDITH PRAISELIEN .P
Staff Co-ordinator
Mrs. Kayavizhi.K.R Asst.Prof.,
Room No:122

HIGHER STUDIES
Pathway to Higher Education
YUTHIKA . A   MOHANRAJ. P
Staff Co-ordinator
Mrs.Anitha.G Asst. Prof.,
Mr.Lingeshwaran.M Asst. Prof.,
Smart Classroom

18.10.2024   1:40 PM TO 3:00PM

includes a session on "Communication Excellence in Engineering," coordinated by Santhosh R., which focus on effective communication skills critical for engineers in technical and professional environments. The "Higher Package Placement" session, titled "The Road to Six-Figure Salaries" and coordinated by Benita Jael J., provided the guidance on securing high-paying job offers, including resume building, interview preparation, and industry trends. Edith Praiselien P., lead a session on "Effective Strategies for Placement," offering students practical insights on job search strategies, networking, and industry expectations. For those aiming for advanced studies, the "Higher Studies" session, titled "Pathway to Higher Education," coordinated by Yuthika A. and Mohanraj P., covered the opportunities for further studies, including application processes, scholarships, and course selection.

B) SEERA Activity - 2	Report

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)

nirf

SEERA | STUDENTS EMPLOYABILITY ENHANCEMENT AND RESEARCH ACTIVITY

HIGHER PACKAGE AND PLACEMENT

NAVIGATING CAREERS THROUGH DATA INSIGHTS

Youghessh S
Director
Syasan's Career Analytics

Staff Coordinator
Mrs Kayalvizhi K R/Assistant Professor
Mrs M Angelin ponrani /Assistant Professor
Venue: Room no 122

SKILLRACK
Dr. A M Balamurugan/Associate Professor
Venue: ECE Lab I Floor

SLOW LEARNERS
SIGNALS AND SYSTEMS
Dr. K Ramachandra Reddy
Venue: Room no 126

04-10-2024 FRIDAY | 1:40pm to 3:00pm

COMMUNICATION

THRIVING IN ASPECTS OF CAREER

ABISHAI SAKTHI DEV

Mrs. Madhumitha R /Assistant Professor
Venue: Room no 127

HIGHER STUDIES ABHS

LEVERAGING YOUR HIGHER EDUCATION FOR FUTURE OPPORTUNITIES

DUSARI KAUSHIK RAGAVA

Mrs. G. Anitha/Assistant Professor
Venue: Room no 121

PLACEMENT

EFFECTIVE STATERGIES FOR PLACEMENT

GILBERT SAM M A

JENEFA JOY A B

Staff Coordinator
Mrs.Jasmine Mystica/Assistant Professor
Mr.Lingeshwaran M/Assistant Professor
Venue: Room no 123

On October 4, 2024, held a SEERA session focused on enhancing students' professional and technical skills for improved employability. The program included insightful sessions on data-driven career navigation, personal branding, networking, and leveraging emotional intelligence for career growth. Students explored the value of higher education in aligning with industry trends, learned effective strategies for placement preparation, and gained practical insights into building personalized resumes, optimizing LinkedIn profiles, and mastering interview techniques. Technical sessions covered core concepts in "Signals and Systems," emphasizing their importance for technical roles, along with Skill Rack

	exercises to improve coding skills in C, Python, and Java. The event empowered students with key industry competencies, highlighted pathways for further education, and provided a structured approach to career advancement.
4. Seminar Organised	**Report**

The seminar "Innovate with Intelligence: The Rise of Generative AI and its Future Scope" was hosted by the Department of Electronics & Communication Engineering, featured Samuel Tensinigh from the University of Sydney, who discussed the potential of generative AI, particularly in the context of VLSI and semiconductors. |
| **5. Workshop Organised** | |

a) CAREER COMPASS	Report
	  A two-day workshop was conducted by ECE department on October 9th and 10th, 2024, to equip third and final-year students with essential career skills. Day one focused on resume building, where students learned how to craft professional resumes that stand out to potential employers. Expert guidance from Mrs. Nithya Priya and Mr. Gokula Krishnan helped students understand key components of effective resumes, including structure, content, and formatting. On day two, a mock interview session provided students with a realistic experience of job interviews. Industry professionals conducted one-on-one interviews, offering valuable feedback on communication, problem-solving, and overall performance.
6. AICTE Sponsored ATAL	

Unlocking the Potential of AI: Journey from Transformer Models to Gen AI, Applications from Industry to Space , and the Evolving Threat Landscape	Report

The Department of Electronics and Communication Engineering hosted a two-week AICTE Sponsored ATAL Advanced Faculty Development Programme on "Unlocking the Potential of AI: Journey from Transformer Models to Gen AI, Applications from Industry to Space, and the Evolving Threat Landscape." The programme delved into the latest advancements in Artificial Intelligence, focusing on transformer models and generative AI, while exploring their broad applications across various industries, including space, and addressing the emerging AI-driven threat landscape. Esteemed chief guests, Dr. P. Vanaja Ranjan, Director of the Centre for Faculty Development and Professor in the Dept of EEE at Anna University, along with Dr. Vandita Srivastava, Scientist SG, Head of the Dept of Geo Informatics at ISRO, IIRS, Dehradun, Uttarakhand, led the event on 14th October 2024.

7)NEXTRONIX' 24	**Report**

Department of Electronics and communication has recently hosted a 24- hour Internal Hardware Hackathon, Nextronix'24, on October 18th and 19th, 2024. This event was a platform for students from all years of St. Joseph's Group of Institutions to showcase their innovative hardware projects, fostering experiential learning and leadership development. Forty teams from various departments participated, competing for a cash prize of Rs. 20,000. The hackathon aimed to inspire students to address real-world challenges and gain valuable practical experience, ultimately boosting their confidence and preparing them for future endeavors. By providing an opportunity to apply their classroom knowledge

to real-world problems, the event encouraged creativity, teamwork, and problem-solving skills among the participants.

8) NPTEL Achievers:

- Mrs. G. Anitha have achieved an ELITE position in the NPTEL Python for Data Science course
- GD Vignesh has successfully completed 4 weeks NPTEL course on Basics of SDR and its Applications.
- Mrs. M. Angelin Ponrani have achieved an ELITE position in the NPTEL Python for Data Science course

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9) Patent Published

The following faculty members have published patent during the month of October 2024.

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.	202441075603 A	R.Madhumitha	R.Madhumitha	Wearable IOT Bands for stress regulation with Adaptive machine learning techniques	07/10/2024	18/10/2024	-
2.	202441072277	Mrs.S.Devipriya	Mrs.S.Devipriya	SYSTEM AND	24/09/2024	10/10/2024	-

				METHODFOR BLOCK-CHAIN BASED CREDIBILITY VERIFICATION OF INTERNET OF THINGS (IOT) ENTITIES			
3.	20244107105 5	Mrs P.Elaveni	Mrs P.Elaveni	EDGE COMPUTING PLATFORM FOR LOW-LATENCY IOT APPLICATIONS	20/09/2024	10/10/2024	-
4.	20244108001 7 A	Mrs.G.Anitha	Mrs.G.Anitha	"Enhancing mathematical reasoning and self-efficacy with problem based learning, contextual teaching and machine learning integration	21/10/2024	25/10/2024	-

10) **FDP/Workshop:**

The following staff member have participated in various FDP/Workshop conducted by other institutions during the month of October at National/International level.
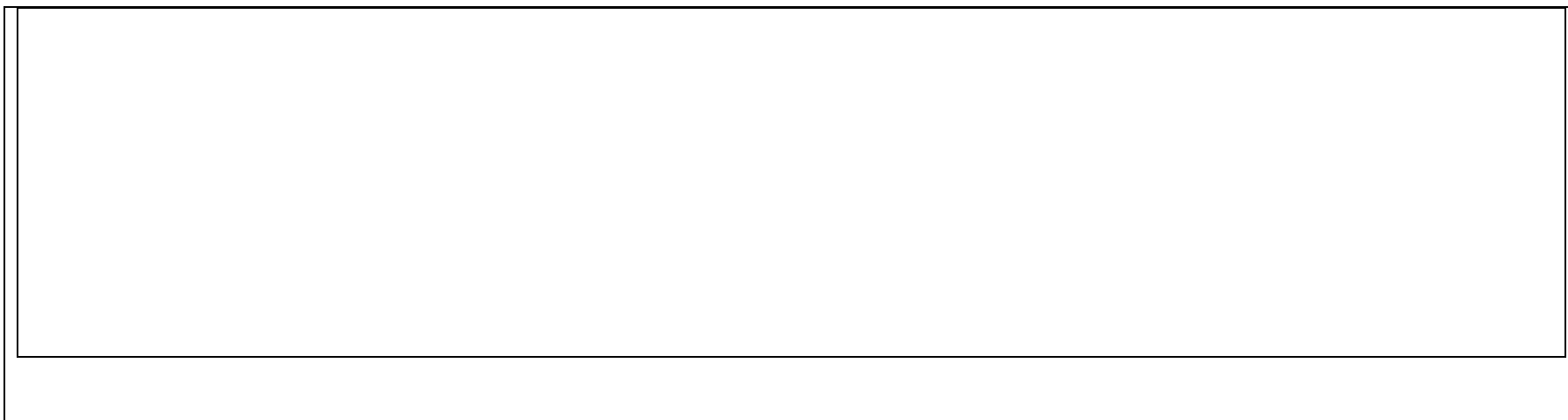
S.NO	Name of the Faculty	Title of the professional development program	National / International	Workshop/ FDP/ Conference/STP	Date and Duration (from – to)	No. of Days	Place of the Program/ Conducted by
1.	Dr. B Victoria Jancee	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering
2.	Dr.S.Aghalya	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering
3.	Dr.P.Ezhilarasi	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering

		Space, and the Evolving Threat Landscape					
4.	Dr.S.Vinayagapriya	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering
5.	Mrs.R. Madhumitha	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering
6.	Mrs.S.Devipriya	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering

7.	Mr.G.D.Vignesh	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering
8.	Mrs.M.Angelin Ponrani	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering
9.	Dr.M.Suresh	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering
10.	Dr.D.Sumithra Sofia	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering

		GenAI, Applications from Industry to Space, and the Evolving Threat Landscape					
11.	Dr.A.Simon Prabhu	AICTE Training and Learning (ATAL) Academy Faculty Development Program on Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape	National	FDP	14/10/2024 to 26/10/2024.	14 Days	St. Joseph's college of engineering
12.	Dr. D. Sumithra Sofia	Future Ready Antenna Design-cutting Edge solution for 5G-mm wave and beyond	National	FDP	14.10.2024 -18.10.2024	5Days	St. Joseph's college of engineering

11.Publications

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

1.S.Aghalya," Cloud based prediction of epileptic seizures using real-time electroencephalograms analysis" International Journal of Electrical and Computer Engineering, vol 14, no.5, pp. 6047–6056

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)
1.	**Student workshop** *PIC: EVENT PHOTO*	Design and Develop smart Analog battery charger using proteus and easy eda Software was held on 03.10.24 & 04.10.24. Student Workshop on "Design and Develop smart Analog battery charger using proteus and easy eda Software" was conducted in the Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering. In the first day of the session, the students were provided with basic knowledge on Proteus software and its applications. The next day hands on training on design and Develop smart Analog battery charger using proteus has been taught to the students.

2.	**Student workshop** *PIC: EVENT PHOTO*	Trends and Opportunities in Solar PV Technology" held on 03/10/2024 & 04/10/2024 Student Workshop on "Trends and Opportunities in Solar PV Technology" was conducted in the Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering by TIAS Pvt Ltd. In the first session of the workshop, the students were provided with recent trends in Solar PV Technology and its applications. The next day Opportunities in Solar PV Technology and hands on training has been provided.
3.	**Student workshop**	Student Workshop on "Interior Lighting design using Dialux evo software" was conducted in the Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering by Unique MEP Pvt Ltd. In the first session of the workshop, the students were provided with basic knowledge on Interior Lighting design. The next day hands on training has been provided using Dialux evo software.

PIC: EVENT PHOTO

4.	**Student workshop**	Student Workshop on "Introduction to PCB software: Altium" was conducted in the Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering by TATA. In the first session of the workshop, the students were provided with introduction to PCB software. The next day hands on training has been provided with Altium.
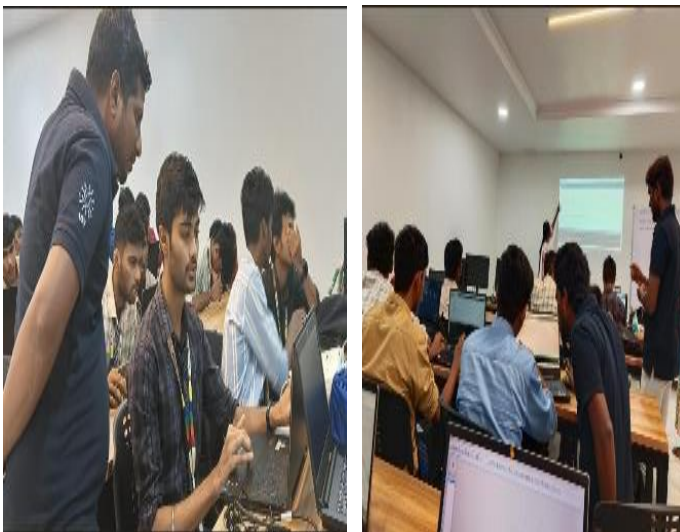
PIC: EVENT PHOTO

5.	**Student workshop**	Student Workshop on "Hands- on Machine learning using python" was conducted in the Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering by Build Innovative Technologies Pvt.Ltd. In the first session of the workshop, the students were provided basics of Python. The next day hands on training have been provided on Machine learning using python.

PIC: EVENT PHOTO

6.	**Mentor Meeting**	**Mentor meeting** was organized by the Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering for all the second, third and final year EEE students on **October 18, 2024**. Students were encouraged to perform well in Model exam and End semester lab exams. They were motivated to focus on enhancing core, technical and soft skills to prepare for multidisciplinary challenges in engineering.

PIC: EVENT POSTER

7.	**Class Committe Meeting**	During CCM meeting on 18th October 2024 the following points were discussed: Model-1 exam comparative Analysis between 3 sections, Prize winner/ participation in Different Events in top colleges in each section, NPTEL Exam Preparation Methods, Skillrack Performance, Preparation for both model-3 & End semester exam (Lab & Theory), How to increase the number of students score above 9 CGPA. For final year students, given guidance for Paper and Patent Publication.

PIC: EVENT POSTER

8.	**Career Guidance meeting**	Career Guidance meeting was organized by the Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering for all the third year EEE students along with their parent on October 22nd, 2024.

PIC: EVENT PHOTO

| 9. | IEEE activities | On **7th October 2024**, the IEEE St. Joseph's College of Engineering Student Branch Chapter (SBC60101) hosted the **Happy Volunteering** event in celebration of IEEE Day 2024. This event was held to honor and recognize the unwavering dedication of the student branch's volunteers, who have significantly contributed to the success of various IEEE initiatives throughout the year.

During the event, over 280+ volunteers were awarded Certificates of Appreciation for their outstanding service and commitment to the IEEE student branch activities. The event served as a heartfelt expression of gratitude to all those who generously gave their time, energy, and skills to help organize and manage IEEE events, workshops, and seminars.

The program emphasized the importance of volunteering and the impact it has on both the individual and the community. |

	 PIC: EVENT PHOTO		
10.	**IEEE activities** 	On **10th October 2024**, the IEEE SJCE Student Branch Chapter **celebrated IEEE Day 2024** with a cake-cutting ceremony, attended by nearly 60 students. The event brought together both new and existing members to commemorate IEEE's legacy and achievements. During the celebration, the history and accomplishments of IEEE SJCE SBC were introduced to the newly joined members, inspiring them to actively participate.	

	PIC: EVENT PHOTO	
11.	**IEEE activities** 	On **15th October 2024**, the IEEE SJCE Student Branch Chapter celebrated IEEE Day 2024 with great enthusiasm, participating actively in the **IEEE Day Photo Contest** across categories like Technovathion, Social Category, and Raise Your Flag. All members participated eagerly in the contest, showcasing their creativity and passion. Additionally, more than 100 students benefited from various events such as a poster competition, a Tech Trivia Quiz, a volunteering appreciation program, workshops, and expert talks featuring IEEE alumni, fostering a strong sense of unity and learning within the IEEE community.

		PIC: EVENT POSTER	
12.	**IEEE activities** *PIC: EVENT POSTER & PHOTO*		On 5th October 2024, the IEEE St. Joseph's College of Engineering Student Branch Chapter (SBC60101) successfully conducted the Tech Trivia event in celebration of IEEE Day 2024. The quiz featured several rounds that tested participants expertise across a range of subjects, including emerging technologies and real-world applications through Mentimeter platform. This interactive format encouraged healthy competition while promoting peer learning.

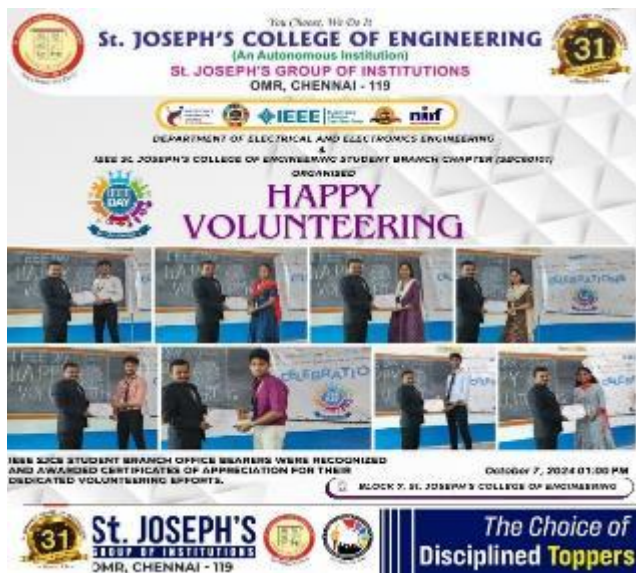| 13.	**IEEE activities**	On 5th October 2024, the IEEE St. Joseph's College of Engineering Student Branch Chapter (SBC60101) successfully hosted a Poster Design Competition in celebration of IEEE Day 2024. The event ran from 4th October to 5th October 2024, with a submission deadline of 6:00 PM on the final day.
	PIC: EVENT POSTER & PHOTO	The winners were selected based on creativity, relevance to the theme, and overall impact of the poster. All participants received E-certificates as a token of appreciation for their efforts and contributions.
14.	**IEEE activities**	On IEEE day on 29th September 2024, IEEE SJCE SB successfully conducted the first session of the EXPERT TALKS series, titled "RECREATING RENAISSANCE." The session featured Mr. Arisudan T H, recognized for his contributions as the Immediate Past Chair of IEEE SJCE SIGHT AG and as the recipient of the IEEE Best Volunteer Award in 2023, provided valuable perspectives on Electrical and Electronics Engineering and the broader IEEE society.
		The event facilitated meaningful interactions between the speaker and the participants, allowing for an exchange of knowledge and ideas. Around 30 Attendees left the session feeling motivated and equipped with new perspectives for their academic and professional endeavour.

PIC: EVENT POSTER

15.	**IEEE activities**	On 05th October 2024, We the IEEE St. Joseph's College of Engineering Student Branch Chapter successfully conducted the second session of the EXPEXT TALKS- RECREATING RENAISSANCE series. The Session featured Mr. HARESH R, recognized for his contribution Immediate Lead Publicity and Special Day Team Graphic Designer, IEEE Madras Section, GET, Vehicle Electrical Process (VEP), RNAIPAL, provided valuable perspective on Electrical and Electronics Engineering and the boarder IEEE Society. Around 30 attendees left the session feeling motivated and equipped with new perspectives for their academic professional endeavours.

	 PIC: EVENT POSTER & PHOTO		
16.	**IEEE activities**		On 15th October 2024, We the IEEE St. Joseph's College of Engineering Student Branch Chapter successfully conducted the fourth session of the EXPERT TALKS- RECREATING RENAISSANCE series. The Session featured Mr. Harry Jakin IEEE Education Society Project Coordinator (Madras Section), IEEE Madras Section Student Coordination Team provided valuable perspective on Electrical and Electronics Engineering and the boarder IEEE Society. The event facilitated meaningful interaction between the speaker and the participants, allowing for an exchange of knowledge and ideas. Around 30 attendees left the session feeling motivated and equipped with new perspectives for their academic professional endeavours.

PIC: EVENT POSTER

17.	**IEEE activities**	On IEEE Day 2024, the IEEE St. Joseph's College of Engineering Student Branch Chapter (SBC60101) successfully hosted the Cover to Cover (IEEE Spectrum Reading) event on 5th October 2024. The event featured a detailed discussion on the topic "India Backs Small Nuclear Reactors to Power Heavy Industry" presented by Ashwini D, a second-year EEE student.
		The session explored the growing potential of small nuclear reactors in India's energy landscape, with a focus on their application in powering heavy industry. Ashwini provided in-depth insights into how this technology can promote energy efficiency and sustainability, sparking engaging discussions among attendees about the future of nuclear energy in industrial applications.

	 PIC: EVENT POSTER & PHOTO	
18.	**IEEE activities** *PIC: EVENT POSTER & PHOTO*	On IEEE Day 2024, the IEEE St. Joseph's College of Engineering Student Branch Chapter (SBC60101) successfully hosted the Cover to Cover (IEEE Spectrum Reading) event on 12th October 2024. The event featured an engaging talk by Arjun P, a second-year EEE student, on the topic "The Incredible Story Behind the First Transistor Radio" Arjun delved into the fascinating history of how the first transistor radio revolutionized the electronics industry. He explained the pivotal role that this invention played in shaping modern communication, highlighting key breakthroughs and the contributions of notable engineers. The presentation sparked thought-provoking discussions among attendees, as Arjun illustrated how the development of the transistor radio laid the foundation for many of today's portable electronic devices.

19.	**IEEE activities**	IEEE PES SJCE SB AND IEEE SMART CITIES- in association with IEEE St. Joseph's College of Engineering Student chapter conducted a Workshop "HANDS ON WORKSHOP" on 17/10/2024 from second year of the Department of Electrical and Electronics Engineering participated. The MATLAB Hands-on Workshop was conducted for second-year students, providing them with a valuable learning experience. This workshop primarily focused on introducing students to MATLAB, a high-level programming environment used widely in Engineering. Simulink, a graphical environment for simulation and model-based design. The workshop began by explaining the basics of MATLAB, helping students to understand how to future project
	PIC: EVENT POSTER	
20.	**IEEE activities**	The IEEE Standards Workshop and Hackathon, held on September 18, 2024, at the Robotic and Process Automation Lab (PEP CENTRE) of St. Joseph's College of Engineering, Chennai, was a significant event, with the college being selected from across the southern zone to host it. The inauguration featured notable speakers, including Mr. Shone Jose, Vice Chair of IEEE India Council for Young Professionals, and Mr. A. Sadeeshkumar, Assistant Professor at St. Joseph's College of Engineering.

The technical sessions were led by Mr. Anand Raje, Co-Founder and CTO of IIFON, and other experts like Ms. T R Ramya from CeWIT and Dr. Sudha Bhuvaneshwari, President of ISOC Chennai. With active participation from 31 external students representing various colleges, the event successfully emphasized fostering innovation through the application of global technology standards. |

PIC: EVENT POSTER & PHOTO	
21.	**IEEE activities** *PIC: EVENT PHOTO*	TECH X SJCE'24, The program featured numerous expert-led seminars on practical tasks, lectures, professional networking opportunities, and mentorship sessions covering a variety of contemporary fields. During the three intense days, the participants received a comprehensive set of tools and fresh knowledge about emerging technologies, positioning them to be the forefront of technology for their future endeavors. I. ROBOTICS WORKSHOP II. ELECTRIC VEHICLE WORKSHOP III. WEB DEVELOPMENT WORKSHOP IV. CLOUD COMPUTING WORKSHOP V. DRONE WORKSHOP

		VI. QUANTUM COMPUTING AND CYBER SECURITY WORKSHOP VII. ARTIFICIAL INTELLIGENCE AND DATA SCIENCE VIII. RENEWABLE ENERGY WORKSHOP IX. IOT/EMBEDDED SYSTEMS
22.	**ISTE activities** *PIC: EVENT POSTER & PHOTO*	St. Joseph's College of Engineering (Electrical & Electronics Engineering) in association ISTE STUDENT CHAPTER organized a technical event called "CALL FOR POSTER INNOVATIONS " on 10/10/2024. This exclusive event started at 1:40 pm with all the members of our club and society. The event started exploring the hidden talent of our students. Abiding the famous quote "Everyone has talent. What's rare is the courage to follow it to the dark places where it leads." the event started exploring the hidden talent of our students which were kept hidden through this event. OUTCOME: Innovating communication improves clarity and effectiveness in conveying ideas to diverse audiences. It encourages engagement and inspires creators to adopt new techniques. This initiative fosters a culture of innovation, enhancing information visibility and impact.

23.	**Club activities**	St. Joseph's College of Engineering, (Electrical & Electronics Engineering) ROBOTICS CLUB in association with IEEE ROBOTICS AND AUTOMATION SOCIETY organized a technical event " BOT BUILDERS SUMMIT " on 08/10/2024. This exclusive event started at 1:40 pm with all the members of our club and society. The event started exploring the hidden talent of our Students. Abiding the famous quote " Everyone has talent. What's rare is the courage to follow it to the dark places where it leads." the event started exploring the hidden talent of our students through this event. OUTCOME Participants gained deeper insights and improved their problem-solving abilities through challenges. Categories could include power management, signal processing, or renewable energy solutions.
	 PIC: EVENT POSTER & PHOTO	
24.	**Club activities**	St. Joseph's College of Engineering, (Electrical & Electronics Engineering) ELECTRICAL CLUB organized a technical event "TECH CONNECT EXPO" on 09/10/2024. This exclusive event started at 9:30AM with all the members of our club and society. The event started exploring the hidden talent of our Students. Abiding the famous quote " Everyone has talent. What's rare is the courage to follow it to the dark places where it leads." the event started exploring the hidden talent of our students through this event. OUTCOME Participants gained deeper insights and improved their problem-solving abilities through challenges. Categories could include mastering the art of wiring and circuiting.

	 PIC: EVENT POSTER		
25.	**Club activities**		" ID THE IC'S " organized by the very vibrant technical event of the Choppers Club of St. Joseph's College of Engineering, on October 14, 2024 at 1:40 p.m was an event with full participation of club members. It has taken out a great opportunity for students to discover and bring out their own specialties regarding ICs. This endeavor focused on experience-based learning and teamwork by consolidating the basic principles of Electrical and Electronics Engineering in a fun interactive environment. TECHQUEST: A series of quiz rounds tested participants' knowledge about ICs, their applications, and basic electronics principles. This competitive element added excitement and motivation.

	 PIC: EVENT POSTER	
26.	**Placement club activities**	The Department of EEE has conducted the SEERA training program for SECOND year students through Lingual Club and Bright Byte Coders Club on 4/10/24. The speakers of the event are also from second year students Laura J on the topic INTRODUCTION TO SQL, SARANYA M the topic PROFIT AND LOSS, SOUNDARYA M on the topic CHOICES AND CHANCES FOR YOUR CAREER & GOKULARAMAN S R on the topic HOW TO ENTER A JOB ON YOUR OWN INTEREST. The program is organized to enrich the skills on various topics on aptitude for the students and provides the placement drive procedures for various companies.

PIC: EVENT POSTER

27.	**Placement club activities**	The Department of EEE has conducted the SEERA training program for SECOND year students through Lingual Club on 09/10/24. The speakers of the event are also from second year, Pre-final year and Final year students SARANYA D on the topic PROBLEMS ON TRAIN, SHERIL J on the topic PROBABILITY, VAISHALINI R on the topic HOW TO OVERCOME STAGE FEAR & OVIYAVARSHINI R on the topic TIME AND SPEED. The program is organized to enrich the skills on various topics on aptitude for the students and provides the placement drive procedures for various companies.
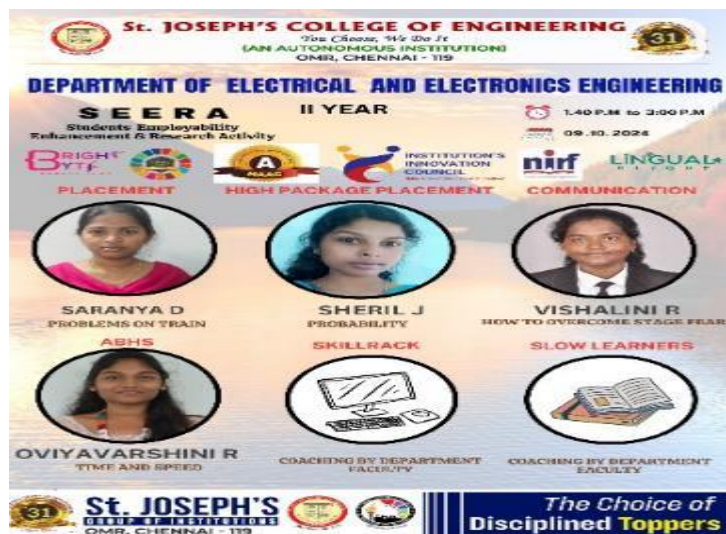
	 PIC: EVENT POSTER		
28.	**Placement club activities**		The Department of EEE has conducted the SEERA training program for SECOND year students through Lingual Club on 18/10/24. The speakers of the event are also from second year, Pre-final year and Final year students SANGAMITHRA B on the topic CLOCK AND CALENDAR, SHAMRUTHA J A on the topic DATA STRUCTURES AND ALGORITHM, AISWARYA T S on the topic PERSONALITY ENHANCEMENT PROGRAM & HARINI N on the topic GROUP DISCUSSION. The program is organized to enrich the skills on various topics on aptitude for the students and provides the placement drive procedures for various companies.

PIC: EVENT POSTER

| 29. | Alumni activities | Our department of Electrical and Electronics Engineering has organized an alumni talk on "Opportunities in Government Sector" for second year students on 5th October 2024. Our alumni Mr. Babu Ram G, (Batch: 2015- 2019) Executive cadre under ministry of Home Affairs, provided insights into career readiness, various exams for several posts. He also presented valuable books to 12 students. The session was interactive and useful. |

PIC: EVENT POSTER

30.	**Alumni activities**	Department of EEE organized an online event on 21st October 2024 at 7pm for higher studies guidance through Alumnus of 2018-2022 batch, Mr.Sharan R, B.E., (MBA), IIM Nagpur.
	PIC: EVENT POSTER & PHOTO	The event was organized for students who are preparing for and aspiring to join a management course after graduation. Participants included second, third, and fourth-year students from the Electrical and Electronics Engineering department. The speaker achieved a percentile score of 78.80 in CAT 2023 and is now pursuing an MBA at IIM-Nagpur. During the webinar, he offered valuable insights on CAT exam preparation and explained the application process. He also covered the different sections of the CAT exam and their respective weightages, and provided information about various IIMs in India and their selection process. Attendees had the opportunity to clarify their doubts

		regarding the CAT exam and also about the best B schools in India to join for management course.
31.	**NPTEL**	the students completed their courses conducted by **NPTEL** during Jun-Dec 2024 September exams, 65 final year students among which 24 are elite and 4 are elite silver 34 third year students among which 17 elite and 1 elite gold 12 second year students among which 3 are elite.

32.	**Student achievements** 	• The following students were finalist in **AMRUT -AICTE Millet Recipe Unleashing Talent Grand Finale competition** **Team 1:** Hariprasath S Rithika R Shamrutha J A Oviyavarshini R Mentor Name: Dr. Jayarama Pradeep **Team 2:** Pradeepa G Pooja V Pradeepa R Kathir D Mentor Name: Mrs.Vedavalli S P **Team 3**: Praveen M Saran P Magalekshmi A Sujitha T	
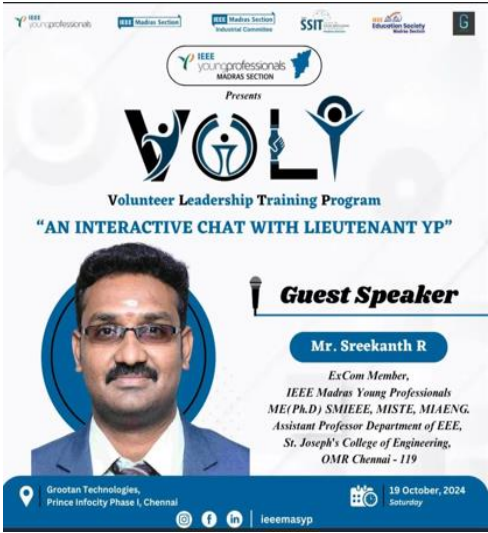
Pic. Students receiving prize

Mentor Name : Mrs. C Rama Devi

- The following students won prizes in the intercollege Competition
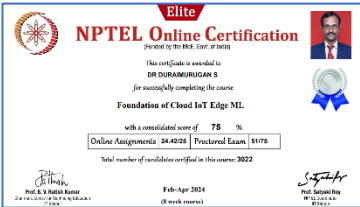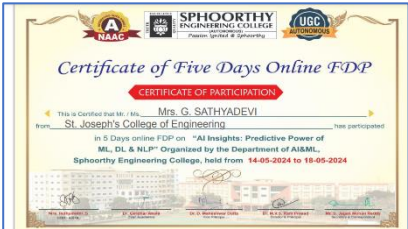
S. No	Name of the Student	Year	Event Name	Organized by	Prize won
1.	Jemila L	IV	Techno Tangles	Sri Sairam Engineering College	**II place Rs. 1500/-**
2.	Sandhiya T Saranya M Sarvana kumar R Vijay Vigneswar	II	Treasure Hunt	SRM Valliammai Engineering College	**I place Rs. 700/-**
3.	Pavithra P Loshini.R Srinalini R Sridhar B	II	Treasure Hunt	SRM Valliammai Engineering College	**II place Rs. 500/-**

- our second year students Umamageshwari M, Rakshaya B C, Kanishka S **team** were the winners of **Anna University Zonal Volleyball Tournament** Held At Jerusalem College Of Engineering, Chennai on 01/10/2024.
- Our second year student **Dharani M** was **runner** in **Anna University Inter Zonal Fencing Tournament** Held at Pavai Engineering College, Chennai on 10/10/2024.

33.	**Faculty Publication**	• **Mr.R.Elanthirayan** published a paper titled " **Economic analysis and effective energy management of fuel cell and battery integrated electric vehicle**" in Journal of Energy Storage. • **Dr.A.Jamna** published a paper titled " **Optimal power quality enhancement of photovoltaic and plug-in electric vehicle for smart grid using HBA-GJO technique**" in Journal of Electrical Engineering.
34.	**Faculty awards and recognitions** 	➤ Our faculty **Mr.S.Nishant** had visited Kumara Raja Muthaih school Adayar and Olcott Memorial Higher Secondary School ,Besant Nagar and gave a seminar on "**The Next Generation of Electrical Engineering: Trends & Career Opportunities**" on 14th October 2024. ➤ Our faculty **Dr.M.RameshBabu** has reviewed 1 paper for the Springer Nature. ➤ Our faculty **Dr.M.Venmathi** has reviewed 1 paper for the Springer Nature. ➤ Our faculty **Mr.C.Venkatesh Kumar** has reviewed 1 paper for the Springer Nature ➤ Our faculty **Mr.R.Sreekanth** acted as a resource person in Volunteer Leadership Training Programme and delivered a lecture on the topic "**An Interactive Chat with Lieutenant YP**" on 19 October 2024 at Grootan Technologies, Prince Infocity Phase 1 Chennai. ➤ Our faculty **Dr.Jayarama Pradeep, Mr.R. Elanthirayan** participated as faculty guide in the Niral Thiruvizha (Hackathon) Competition. ➤ Our faculty **Dr.Jayarama Pradeep** participated in Orientation Programme on "Energy Modelling Tools (OSeMOSYS) organised by the Centre for climate change and Disaster Management, Department of Civil Engineering, Anna University, Chennai in Association with the Climate Compatible Growth, the United Kingdom. ➤ **Dr.Jayarama Pradeep & Mr. Elanthirayan R** participated in Wind Energy conference 2024 on 27.10.2024 along with students of II Year

		held at Nandambakkam Trade Center, Chennai organized by Ministry of Power & Ministry of New and Renewable Energy.
35.	**Faculty Development Program**	• Dr.C.Venkatesh Kumar: Participated &completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on "RECENT TRENDS IN POWER ENGINEERING AND ELECTRIC VEHICLE TECHNOLOGIES at CHENNAI INSTITUTE OF TECHNOLOGY", from 21/10/2024 to 26/10/2024. • Mr.A.Sadeesh Kumar: Participated in Half Day Training Program on Manuals for Energy Efficient Retrofit of Existing Buildings organized by the Bureau Of Energy Efficiency. • Dr.A.Jamna: Completed a NPTEL-AICTE FDP "Brief Introduction to Psychology" from July to August 2024.
36.	PLACEMENT DETAILS FOR THE MONTH OF OCTOBER 2024	**2021-2025 Batch** Total No of students placed = 46 Students Total No of Offers = 58 Offers Total No of Students (UG) = 194 Total No of Eligible Students (UG) = 160 (All Clear) % of students Placed (UG) = 46/194 = 23.71 % No of students having single offers = 36 No of students having Double offers = 8 No of students having Triple offers = 2

DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event/Screenshot	Corresponding remarks in regarding the status of activity execution
1	RESEARCH ARTICLE **Next-generation energy-efficient optical networking: DQ-RGK algorithm for dynamic quality of service and adaptive resource allocation** Mathumohan Swamidoss, Duraimurugan Samiayya, Manikandan Gunasekar First published: 15 May 2024 | https://doi.org/10.1002/cpe.8070 Read the full text › PDF TOOLS SHARE Summary In green optical networking, designing an adaptive energy-saving scheme plays a vital role, in optimizing energy consumption by dynamically adjusting resources based on network traffic and environmental conditions, to a more sustainable and efficient optical communication infrastructure. Traditional methods in optical networking face challenges such as static resource allocation, limited adaptability, inefficient power usage, environmental insensitivity, and scalability issues. Therefore this article proposed a novel method named Dynamic Quality of Service based Random update Genghis Khan (DQ- **Co-Author** Dr. S Duraimurugan Published a paper in SCIE Journal	<u>**Staff Paper Publication**</u> Swamidoss M, **S Duraimurugan**, Gunasekar M. "Next-generation energy-efficient optical networking: DQ-RGK algorithm for dynamic quality of service and adaptive resource allocation" Concurrency and Computat Pract Exper. 2024; e8070. doi: 10.1002/cpe.8070 **(Impact Factor: 2.0, Q2, Indexed in SCIE)** **Abstract:** In green optical networking, designing an adaptive energy-saving scheme plays a vital role, in optimizing energy consumption by dynamically adjusting resources based on network traffic and environmental conditions, to a more sustainable and efficient optical communication infrastructure. Traditional methods in optical networking face challenges such as static resource allocation, limited adaptability, inefficient power usage, environmental insensitivity, and scalability issues. Therefore this article proposed a novel method named Dynamic Quality of Service based Random update Genghis Khan (DQ-RGK) algorithm, the proposed model can tackle the abovementioned complexities. In this study, cluster head dynamic placement is utilized to optimize the network's performance by adapting the placement of cluster heads to the current topology, load distribution, and energy levels in the network nodes. By dynamically assigning and reallocating resources based on the current demand the algorithm enhances overall network efficiency and reduces energy consumption. Then, this work analyzes the experimental results, where some evaluation measures estimate the DQ-RGK method's performance. Routing efficiency, latency, scalability, spectral efficiency, Packet Delivery Ratio, throughput, network lifetime, energy consumption, jitter, and energy consumption are the measures employed by the DQ-RGK model. In The results, other routing models that do not provide efficiency are utilized, a comparison of these other routing models is represented in results. The overall DQ-RGK model's effectiveness is represented in the experimental results and its effectiveness is greater among other methods.

	Co-Author Dr. S Duraimurugan Published a paper in Scopus Journal	R. Avudaiammal, **S. Duraimurugan,** V. Sivasankaran and P. Jayarajan "Multi-Objective Spider Monkey Optimization for Energy Efficient Clustering and Routing in Wireless Sensor Networks" Ad-Hoc and Sensor Wireless Networks, 2024, 59(1-2), pp. 99–119, DOI: 10.32908/ahswn.v59.11051 (Indexed in Scopus) In wireless sensor networks (WSN), the gateways far away from the base station (BS) use the gateways nearer to the BS to forward the data. It causes heavy traffic to the gateways in proximity with the BS which in turn causes additional energy consumption and reduction in network lifetime. In order to overcome these issues, multi objective based spider monkey optimization (MOSMO) has been presented to balance the load and to improve the network lifetime through energy efficient routing and clustering. The performance of the proposed scheme is compared with the Particle Swarm Optimization (PSO) and Grey Wolf Optimization (GWO) based scheme in terms of delay, energy consumption, delivery ratio, throughput and network lifetime with various node densities. The results show that the reduction in delay and energy consumption is about 18% and 17% respectively whereas improvement in delivery ratio, throughput and network lifetime is about 15%, 24% and 19% respectively when compared to the existing PSO and GWO methods.
3	**Mr.Abdhur Rahman A** Published an India Patent	**Patent Published** **Title of the invention:** ARTIFICIAL INTELLIGENCE-BASED DATA LEAKAGE PREVENTION SYSTEM FOR ORGANIZATIONS AND INDIVIDUALS USING BLOCK CHAIN AND MACHINE LEARNING ALGORITHMS **Name of Inventor:** 1. Dr.M. Vikram 2. D.Shahi 3. Sagar Dilip Patil 4. Dr. S. Santiago 5. Dr. Surendra Kumar Yadav 6. Akella Subhadra 7. Dr Hemantkumar B Jadhav

	8. **Abdhur Rahman A** 9. Dr. Puneet Banga 10. Deepika R **Patent Application Number:** 202441005521 **Date of filing of Application:** 27/01/2024 **Publication Date:** 09/02/2024

Sample NPTEL Certificate

NPTEL Certification by Faculty

S.No	Name of the Staff	Name of the Course	Period	Credit
1.	DR DURAIMURUGAN S	Foundation of Cloud IoT Edge ML	(8 week course	Elite

Sample FDP Certificate

Seminar/ FDP Attended by Faculty

S.No	Title of the topic	Name of the Staff	Conducted By	Date
1.	AI insights: "Predictive Power of ML, DL & NLP"	Mrs.G.Sathyadevi	Sphoorthy Engineering College	14-05-24 to 18-05-24

DEPARTMENT OF MATHEMATICS AND ENGLISH

Events	Remarks
FDP/Workshop/Conference	

S.No	Name of the staff	FDP Title	Organized by	Date
1	Dr. P. Jayakumar	Innovations in Sustainable Research and Modern Date-Driven Approaches	St. Joseph's University	14-10-2024 to 18-10-2024
2	Dr.B. Amudha	Essential Mathematics for Machine Learning, Deep Learning and Cyber Security	SRMIST, Vadapalani Campus, Chennai	18-10-2024 to 25-10-2024

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-	S.No	Name of the staff	FDP Title	Organized by	Date
	1	Dr. B. Poorani	Graph theory and Python	Indian Mathematics Professors Association & Infinity Research & Development Institute	22-10-2024 to 28-10-2024

1. Dr. P. Agilan, , Presented a paper titled "Exploring a Novel Stability Results of Generalized alternate Cubic Functional Equation in Banach Spaces" in International Conference on progress in Mathematics towards industrial applications, organized by SRM University, 18th to 19th ,OCT 2024.

2. Dr. V.Vallinayagam, Dr. S. Annadurai, Dr. P. Agilan, , Presented a paper titled "Investigation of the Stability of Higher order functional Equations in Neutrosophic Normed Spaces using Hyers- Ulam Methods" in International Conference on progress in Mathematics towards industrial applications, organized by SRM University, from 18th to 19th ,OCT 2024.

3. Dr. N.Jose Parvin Praveena, , Presented a paper titled "A fuzzy analysis of happiness among religious individuals using triangular neutrosophic cognitive Maps" in International Conference on progress in Mathematics and advances in modern technology., organized by Hindustan institute of Technology and Science, from 16th to 18th ,OCT 2024.

Publications(only published) details	1. Pandurangan R., **Kannan Suresh**., Thabet S. T. M., Vivas-Cortez M., Kedim I., φ(x)-Tribonnaci polynomial, numbers, and its sum. J Math Comput SCI-JM. (2025); 37(1):32—44 , **SCOPUS** 2. **Purushothaman, G**., Thandapani, E., Suresh, K., & Tunc, E. (2024). Existence and bounds for Kneser-type solutions to noncanonical third-order neutral differential equations. Electronic Journal of Differential Equations, 2024(01-13), 55. https://doi.org/10.58997/ejde.2024.55 **SCOPUS** 3. Zhang, X., Prabhu, S., **Arulperumjothi, M**. et al. Distance based topological characterization, graph energy prediction, and NMR patterns of benzene ring embedded in P-type surface in 2D network. Sci Rep 14, 23766 (2024). https://doi.org/10.1038/s41598-024-75193-8 **SCIE** 4. L. N. Narayanan, S. U. Vasanthakumar, V. Malarvizhi, P. Balaganesan, **P. Chellamani,** V. Balaji, Skolem Mean Like Labeling of Connected Seven Star Graphs, Advances in Nonlinear Variational Inequalities, Vol.28, No.1 , Page 98-110, SCOPUS 5. S. Gomathy, A. Rajkumar,* **N. Jose Parvin Praveena**, Broumi Said, Single valued Neutrosophic soft set for the segregation to elect progressive mode of student in the bias of etiquette in Neutrosophic environment, International Journal of Neutrosophic Sciences (IJNS), Vol/25, No.2 , Page :353-358, SCOPUS 6. R. Umadevi, **D. Arivukkodi**, Ilyas Khan, G. Swamy Reddy, Reversible esterification process in Casson nanofluids: A numerical analysis of non-newtonian hydromagnetic flow, International Journal of Modern Physics B, Vol. 2025, No. 2540057, Page 1-25, SCIE 7. **P. Agilan**, K. Julietraja, Sarah Aljohani, Nabil Mlaiki, Generalised Ulam-Hyers Stability Analysis for System of Additive Functional Equation in Fuzzy and Random Normed Spaces: Direct and Fixed Point Approach, International Journal of Analysis and Applications Vol. 22. No. 201, Page 1-20, SCOPUS 8. Gunaseelan Mani, **Purushothaman Ganesh**, Karnan Chidhambaram, Sarah Aljohani, Nabil Mlaiki, Existence and Uniqueness Solutions of Multi-Term Delay Caputo Fractional Differential Equations, Vol.22 , No. 171, Page 1-22, SCOPUS
Funded Projects	
Other activities	Dr. P. Agilan published a book "Linear Algebra: Theory and Applications", RK Publications

DEPARTMENT OF MBA

FACULTY PUBLICATION / REVIEW:	Dr.K.Sampath has published a paper titled " Enhancing Team Productivity with Synergistic Work Patterns using Genetic Algorithms" in 2024 International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI 2024), ISBN: 979-8-3503-7281-6, https://doi.org/10.1109/ICoICI62503.2024.10696457 Dr.K.Sampath has published a patent titled "implementation of machine learning approaches for supply chain optimization through hr predictive analytics in e-commerce" on 04.10.2024
FDP / STTP/ WORKSHOP ATTENDED: 	Dr. Bharath vajan presented a paper in 3rd International Conference on optimization techniques in the field of engineering at KSR College of Engineering, Namakkal during 22 & 23 October 2024. Dr.A. Ajit participated in One week STTP on Hands on AI tools for Academic writing: Elevate your Research and publishing impact from 21-26 Oct, 2024.
INDUSRIAL VISITS: 	The department of Management studies organized a one-day Industrial Visit to "Aavin Milk Factory" on 28.10.2024 for the I year MBA-A & B students. Our visit included a detailed explanation of the milk collection and processing procedures. We learned about the meticulous separation of milk based on fat content to produce various milk variants. The total numbers of students were 111 accompanied by 4 professors.

GUEST LECTURE GIVEN:	Dr.L. Rajeshkumar has given Seminar on Essential key skills and strategies for success in leadership Interviews on 25.10.2024 at Saveetha Engineering College, Chennai
ONLINE COURSE COMPLETION:	Dr. Sampath k has completed the NPTEL Course on Customer Relationship Management and HR Analytics.

DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
4	**FDP/Workshop/Conference**	***NPTEL FDP*** 1. Dr. S. Suresh completed three months NPTEL course / FDP on the title of "Concepts in Magnetism and Superconductivity" conducted by IIT , Koragpur, during the period of August-October 2024. ***FDP / workshops attended***: 1. Dr. S. Suresh attended a National level workshop on "ChatGPT & AI in Microsoft Office" conducted by "Skill Nation, Online Platform", on 16-10-2024. 2. Dr. K. Dhanaraj attended one week national level Faculty Development program on "Generative AI and Advanced Tool for academic Research" conducted by "Scrollwell online platform" held between 23.09.24 to 29.09.24. (Certificate received on the month of October)
5	**Symposium**	-
6	**STTP**	1. Dr. V.N. Nandini Devi, Dr. P. Saravanan, 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. S. Rama, Dr. K. Sathesh Kumar, Dr. G. Senthil Kumar, Dr. K.Dhanaraj, 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. C. Chandra Sathish, Dr. A. Dhivya attended six days online Short Term Training Programme on "Hands-On AI Tools for Academic Writing: Elevate Your Research and Publishing" conducted by "The Department of Science, St. Joseph's College of Engineering during 21-10-2024 to 26-10-2024
7	**Value added Courses/Courses other than VAC**	-
8	**Competitions attended by students**	-
9	**Awards/Prize won by students / Staff**	1. Mr. B. Hariharan of I year ADS-B has won II prize in the "Hunt the Bug" event at "National level Symposium" conducted by "Jeppiaar University, Chennai" on 25-10-2024.

10	**Industrial Projects done by students**	-
11	**Publications(only published) details**	**Journal Publications:**

Journal Publications:

1. Dr. P. Saravanan published an article titled "Time-Dependent Hydrothermal Synthesis of La2O3 NPs for Effective Catalytic Activity of Ionic Dye " in the journal of "Luminescence: the Journal of Biological and Chemical Luminescence", 39 (2024) e4915 {doi: https://doi.org/10.1002/bio.4915}

2. Dr. P. Saravanan published an article titled "Synthesis of Aluminum Oxide (Al2O3) Nanoparticles Decorated With Polymeric Carbon (Al2O3/AC) Nanocomposites for High Specific Capacitance Value" in the journal of "Polymers for Advanced Technologies", (2024) {doi: https://doi.org/10.1002/pat.6604 }

3. Dr. P. Saravanan published an article titled "Sequential Detection of Hg2+ and TNT Using a Nitrogen-Doped Polymeric Carbon Dots On–Off–On Fluorescence Sensor" in the journal of "Polymers for Advanced Technologies", (2024) {doi: https://doi.org/10.1002/pat.6604 }

4. Dr. V. Swarnalatha published an article titled "Synthesis and studies of manganese mercury thiocyanate glycol mono-methyl ether crystals for structural, electronic, dielectric, sensor and piezoelectric functionalities by theory and practice" in the "Journal of Material Science: Material Electronics" Vol.35, (2024) 1777, { https://doi.org/10.1007/s10854-024-13534-z }

5. Dr. V. Swarnalatha published an article titled "Synthesis, Studies of HDTDHP-µ Crystals from Arundina graminifolia Specimen for Electronic, Photonic, Optical and Electrical Use Correlated with Macro-Crystals for Sensor and Display Uses" in the "ECS Journal of Solid State Science and Technology" Vol.13, (2024) 097005, {DOI: 10.1149/2162-8777/ad7beb }

6. Dr. V. Swarnalatha published an article titled "Growth, Characterizations of Aspartame-ASP Crystals for Mechano, Spectral, Photonic, Opto-Electronic and Sensor Applications" in the "ECS Journal of Solid State Science and Technology" Vol.13, (2024) 094004,   {DOI: 10.1149/2162-8777/ad7b71}

7. Dr. S.M. Prakash published an article titled "Microwave assisted synthesis, spectral characterization of novel [N-methyl-3t-alkyl-2r,6c-diarylpiperidin-4-ylidine]-5',5'-dimethylthiazolidine-4-ones for antimicrobial and antimycobacterial activities:

Docking investigation" in the "Journal of Molecular Structure" Vol.1322, (2024) 140464 {DOI: https://doi.org/10.1016/j.molstruc.2024.140464}

8. Dr. K. Dhanaraj published an article titled "Antibacterial and Cell-Viability of HydroxyapatiteDerived from Waste Marine Shell for Biomedical Applications" in the "Asian Journal of Chemistry" Vol.36, (2024) {DOI: https://doi.org/10.14233/ajchem.2024.32287}

Book Chapters

1. Dr. N.R. Rajagopalan published a book chapter titled "Enhancing food quality monitoring process through innovative micro-controller based systems" in the book " Edible Electronics for Smart Technology Solutions" – IGI global publishers(2024) {DOI: 10.4018/979-8-3693-5573-2.ch003}

2. Dr. J. Sharmila published a book chapter titled "Adaptive Strategies in Online Marketing Using Machine Learning Techniques" in the book " Digital Transformation Initiatives for Agile Marketing" – IGI global publishers(2024) {DOI: 10.4018/979-8-3693-4466-8.ch004}

3. Dr. G. Murugan published a book chapter titled "Emerging startups in the Evolving Industry Landscape by Empowering Entrepreneur Growth: Agile Marketing Practice" in the book " Digital Transformation Initiatives for Agile Marketing" – IGI global publishers(2024) {DOI: 10.4018/979-8-3693-4466-8.ch017}

4. Dr. S. Kiruba published a book chapter titled "Integrating AI and Machine Learning in Omnichannel Marketing for Superior Customer Experience" in the book " Digital Transformation Initiatives for Agile Marketing" – IGI global publishers(2024) {DOI: 10.4018/979-8-3693-4466-8.ch005}

Patents

1. Dr. N.R. Rajagopalan published a patent titled "Nanocomposite Engineering: Revolutionary Synthesis Methods for MgO-Carbon-Based Capacitive Electrodes" in the " Official Journal of the Patent Office – Journal issue 42/2024 - " – Application No.202431076904 , dated 18-10-2024

2. Dr. S.M. Prakash published a patent titled "Real-time battery discharge prediction for

Electric Vehicles using Machine Learning algorithms" in the " Official Journal of the Patent Office – Journal issue 43/2024 - " – Application No. 202441080058 , dated 25-10-2024.

Reviewer:

1. Dr. P. Saravanan acted as reviewer for the journal "Environmental Science and Pollution Research- Springer" – October 2024
2. Dr. N.R. Rajagopalan acted as reviewer for the journal "Physics and Chemistry of the Earth - Elsevier" – October 2024

12	**Funded Projects**	--
13	**Other activities(if any)**	The Department of Science, in association with RSPRC, Coimbatore conducted six days online Short Term Training Programme on "Hands-On AI Tools for Academic Writing: Elevate Your Research and Publishing" during 21-10-2024 to 26-10-2024.