AUGUST 2024

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

S.No.	Title of the Events and Photographs	Details of the Event
1.	**COLLABARATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS/ INDUSTRY INSTITUTE INTERACTION**	Mr.Senthil Kumar/ADS, Mr.Sathish Kumar/ADS, has visited DEO VERSE at Porur and interacted with Mr.Vadivel Periyasamy-Director as a part of **INDUSTRY INSTITUTE INTERACTION.**

St. JOSEPH'S COLLEGE OF ENGINEERING
You Choose, We Do It
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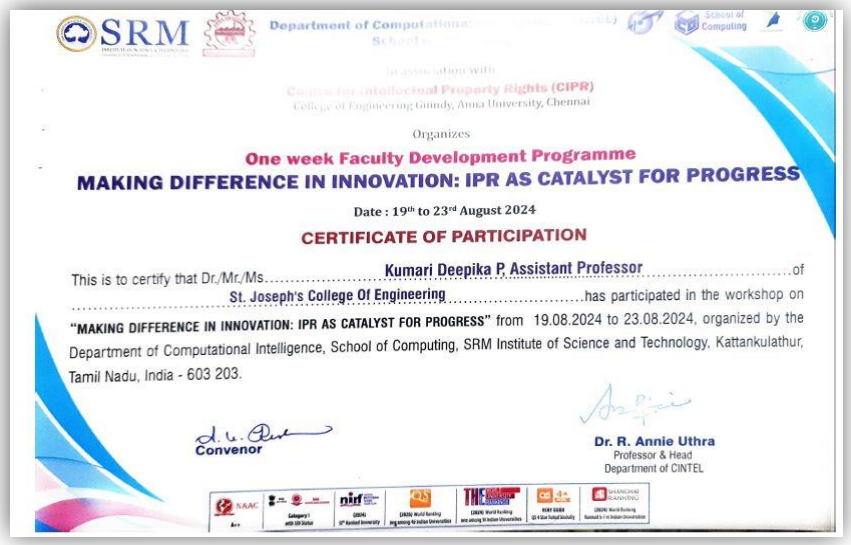
OMR, CHENNAI - 119
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
INDUSTRY INSTITUTE INTERACTION
INSTITUTION'S INNOVATION COUNCIL
DEO VERSE
Mr. Senthil Kumar D, AP / ADS and Mr. Sathishkumar R, AP / ADS have visited DEO VERSE @ Porur and interacted with Mr. Vadivel Periyasamy - Director, as the part of INDUSTRY INSTITUTE INTERACTION
OUTCOMES OF THE VISIT:
• MoU, Internship, On Project Training
• Skill Development for Students, Recruitment
Date : 13/08/2024, Tuesday.
Porur
St. JOSEPH'S
GROUP OF INSTITUTIONS
OMR, CHENNAI - 119
The Choice of
Disciplined Toppers

Mr.Senthil Kumar/ADS, Mr.Sathish Kumar/ADS, has visited Precision Engineering Technology Centre at Thirumudivakkam and interacted with Dr.A.N.Praveen Raj – Project Associate – Innovation management as a part of **INDUSTRY INSTITUTE INTERACTION.**

2.	**INDUSTRIAL VISIT**	
3.	**GUEST LECTURE**	
4.	**ADS CLUB ACTIVITY**	
5.	**FDP/WORKSHOP/CONFERENCE/HACKATHON** 	***Mrs. Deepa D, Assistant Professor*** ***and*** ***Mrs. Kumari Deepika P, Assistant Professor*** ***from the Department of Artificial Intelligence and Data Science have successfully participated in Five days Workshop on "Making Difference in Innovation: IPR as Catalyst for Progress (OFFLINE)" organized by Department of Computational Intelligence, School of Computing, SRM IST, KTR Campus, Chennai 603203, from 19/08/2024 to 23/08/24 .***



SRM

Department of Computational Intelligence
School of Computing

In association with
Centre for Intellectual Property Rights (CIPR)
College of Engineering Guindy, Anna University, Chennai

Organizes

One week Faculty Development Programme

MAKING DIFFERENCE IN INNOVATION: IPR AS CATALYST FOR PROGRESS

Date : 19th to 23rd August 2024

CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. Kumari Deepika P Assistant Professor of St. Joseph's College Of Engineering has participated in the workshop on "MAKING DIFFERENCE IN INNOVATION: IPR AS CATALYST FOR PROGRESS" from 19.08.2024 to 23.08.2024, organized by the Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India - 603 203.

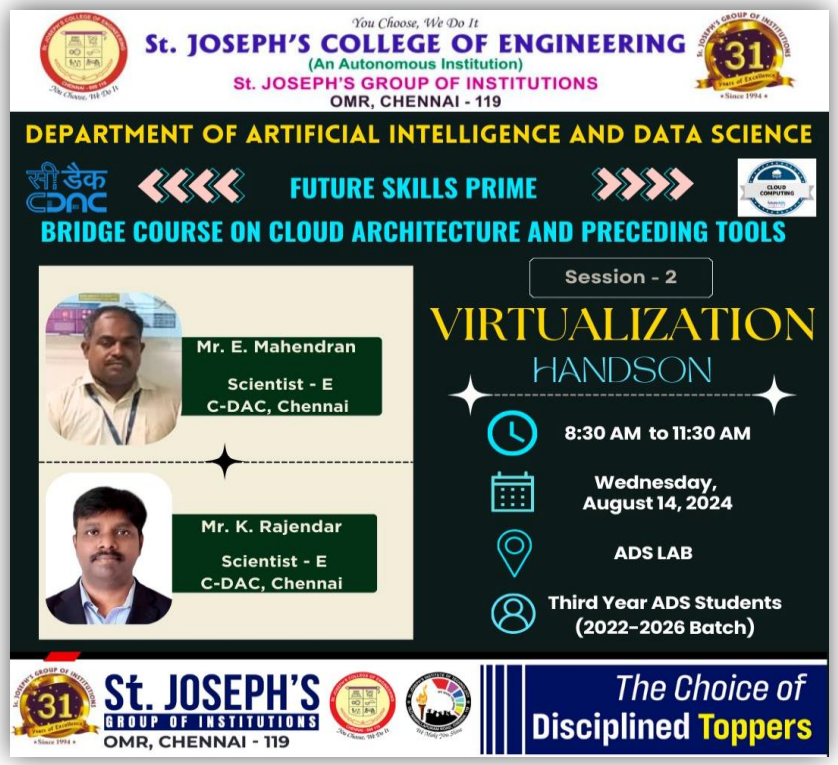
Convenor

Dr. R. Annie Uthra
Professor & Head
Department of CINTEL

Ms. Sathya V, Assistant Professor from the Department of Artificial Intelligence and Data Science has successfully participated in One Week Faculty Development Program on "Microsoft Power BI Data Analyst Associate (OFFLINE)" conducted by ICT Academy on 05/08/2024 to 09/08/24 at Rajalakshmi Institute of Technology, Chennai.

	ICTACADEMY CERTIFICATE OF PARTICIPATION C.No: 024-218520 Date: 09 Aug 2024 V.SATHYA St. Joseph's College of Engineering, Sholinganallur, Chennai has participated in one week Faculty Development Program on Microsoft Power BI Data Analyst Associate conducted by ICT Academy on 05 Aug 2024 to 09 Aug 2024 at Rajalakshmi Institute of Technology In association with Microsoft Srikanth V Chief Executive Officer (I/c) ICT Academy verify.ictacademy.in	
6.	**SYMPOSIUM**	

		Our ADS Department National Level Technical Symposium "DATA ECHELON 24" conducted on 31 August 2024.

7.	**STTP**	
8.	**VALUE ADDED COURSES** 	***The Department of Artificial Intelligence and Data Science, has successfully initiated the Bridge Course on " Cloud Architecture and Preceding Tools" for the third year students by Mr. E Mahendran - Scientist - E, C-DAC, Chennai and Mr .K. Rajendar, Scientist - E, C- DAC, Chennai.***

9.	**COMPETITIONS ATTENDED BY STUDENTS /STUDENTS NPTEL ONLINE CERTIFICATION**	
10.	**AWARDS/PRIZE WON BY STUDENTS** 	*Second Year Students (Batch 2023 - 2027)* 1. ***Mr.Yuvan Shankar G,*** 2. ***Mr. Sujan V,*** 3. ***Mr. Syed Aejaz Ahmed A and*** 4. ***Ms.Reya Josephine H*** *have secured **FIRST PLACE** in the Internal Hackathon "**HACK-O-MANIA**" with a cash Price of **10.000 INR**, conducted by the Department of Computer Science and Engineering, on 29/8/24 & 30/8/24.* *Team Name: **CRISP CODERS*** *Mentor: **Dr. RAMYA R***

DEPARTMENT OF ARTIFICAL INTELLIGENCE AND MACHINE LEARNING

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	**Dr.Lilly Raamesh** Published a design patent 	**Title of the invention:** AI Driven Personal Health Assistant for predictive Health monitoring and Management. 1.T. Ragupathi 2.Richa Datta 3.**Dr. Lilly Raamesh** **Patent Application Number**: 202441062286 **Date of filing of Application**: 16.08.2024 **Date of Issue**: 23.08.2024
2	**Certificates received by the Faculty** 	**<u>Workshop Attended by the faculty</u>**

			S.No.	Name of the FDP	Name of the Staff	Conducted By	Duration	
			1	FDP on NVIDIA – AI Hardware	Dr. Lilly Raamesh	Pantech Learning Pvt Ltd, Chennai.	15.7.2024 to 05.08.2024 (21 Days)	
			2	FDP on NVIDIA – AI Hardware	Dr. Ancy. S	Pantech Learning Pvt Ltd, Chennai.	15.7.2024 to 05.08.2024 (21 Days)	
			3	FDP on openCV for image and video Processing Applications	Dr. Anitha. S	St. Joseph's College of Engineering	22.07.2024 to 26.07.2024(5 Days)	

DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	**COLLABARATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS**	-
2.	**INDUSTRIAL VISIT** ***III year***	1. III year students of Biotechnology were taken on a one day Industrial visit on 14/08/2024 to Quantum Biomedicals, Madhavaram 2. IV year students of Biotechnology were taken on a one day Industrial visit on 09/08/2024 to Rajshree sugars and chemicals, Gingee.

	 IV year	
3.	**GUEST LECTURE**	Guest lecture was organised for the II, III and IV year students on 06.09.2024 on the topic Patient derived explant (PDeX) and patient derived xenograft (PDX(delivered by Dr.Rayala Suresh Kumar, Professor – Indian Institute of Technology (IIT-M). **Dr. S. Justin Packia Jacob** from our Department of Biotechnology delivered a guest lecture on the topic entitled "Molecular Modelling and In-silico Drug Designing" at Anand Institute of Higher Technology on 23rd of August

Guest lecture Brochure

4.	**BIOTECH CLUB ACTIVITY**	-
5.	**FDP/WORKSHOP/CONFERENCE/SKILL DEVELOPMENT**	1. **Ms. Poornimaa**. Mu, Attended a one-week National level Faculty Development Program on, "Research Methodology, Systematic Literature Reviews and References" organized by the Hi Learn Edutech Institute, from 21st to 27th August 2024. 2. **Dr. M. Chamundeeswari** attended a Five-Day Virtual Faculty Development Program (FDP) on on “"Pedagogy, Research and Evaluation Strategies for Pharmaceutical Education and Workforce", which was conducted by Saveetha College of Pharmacy, Saveetha Institute of Medical and Technical Sciences (SIMATS), Chennai; jointly in collaboration with the Indian Pharmaceutical Association (IPA) Tamil Nadu State Branch and the Indian Pharmaceutical

Copy of certificate Ms. Poornima

Association (IPA) Hospital Pharmacy Division on August 19-24th 2024.

3.**Dr. G. Baskar** Participated in in Skill Development Training Program on Introduction to Life Cycle Assessment studies on Bioprocessing and Chemical Engineering conducted by CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram on 28th June 2024 under CSIR-Integrated Skill Initiative.

4. **Dr. G. Baskar** - Completed Energy Literacy Training 12 modules organized by Swaraj Foundation on 09.07.2024

5. **Dr. L. F. A. Anand Raj**, Attended a one-week National level Faculty Development Program on, "Research Methodology, Systematic Literature Reviews and References" organized by the Hi Learn Edutech Institute, from 21st to 27th August 2024

SAVEETHA

SAVEETHA COLLEGE OF PHARMACY

HOSPITAL PHARMACY DIVISION
TAMIL NADU STATE BRANCH

FIVE DAY VIRTUAL FACULTY DEVELOPMENT PROGRAM (FDP) On

PEDAGOGY RESEARCH AND EVALUATION STRATEGIES FOR PHARMACEUTICAL EDUCATION AND WORKFORCE

August 19 - 23, 2024

Certificate of Participation

awarded to

DR. M. CHAMUNDEESWARI

In recognition of your participation in the

FIVE DAY VIRTUAL FACULTY DEVELOPMENT PROGRAM (FDP) on

"Pedagogy, Research and Evaluation Strategies for Pharmaceutical Education and

Saveetha College of Pharmacy (SIMATS) Chennai,

Indian Pharmaceutical Association (IPA) Tamil Nadu State Branch and the Indian Pharmaceutical Association (IPA) Hospital Pharmacy Division

held during August 19 - 23, 2024.

Dr. S. Manivannan
President IPA
Tamil Nadu State Branch

Dr. Ramaiyan Velmurugan
Convener - Virtual FDP,
Professor & Principal
Saveetha College of Pharmacy

Prof. (Dr). R N Gupta
Vice President & Chairman,
IPA Hospital Pharmacy Division

Dr. S. Dinesh Kumar
Co Convener - Virtual FDP
Associate Professor,
Saveetha College of Pharmacy

Dr. Mohanraj Rathinavelu
Organizing Secretary - Virtual FDP
Associate Professor,
Saveetha College of Pharmacy

	Copy of certificate Dr. M.. Chamundeeswari वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद Council of Scientific & Industrial Research राष्ट्रीय अंतर्विषयी विज्ञान तथा प्रौद्योगिकी संस्थान National Institute for Interdisciplinary Science and Technology तिरुवनंतपुरम,केरल 695019 Thiruvananthapuram, Kerala 695019 Certificate This is to certify that ***Mr. Baskar Gurunathan*** has attended the Skill Development Training Program on ***Introduction to Life Cycle Assessment studies on Bioprocessing and Chemical Engineering*** conducted by CSIR-National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram, on ***28th June 2024*** under CSIR-Integrated Skill Initiative. Course Coordinator Head, HRAD Thiruvananthapuram, June 2024 *Copy of certificate of Dr. G. Baskar*	

HONOR CODE ELT24-7-347e

Energy Swaraj Foundation
Energy by Locals for Locals

CERTIFICATE

OF ENERGY LITERACY

THIS CERTIFICATE IS PRESENTED TO

Baskar Gurunathan

has successfully completed the course spanning over 12 modules. The training helps people in understanding energy, its generation, consumption, wastage, carbon footprint, impact on the environment, means to avoid and minimize energy usage, alternative energy solutions, ways to become carbon neutral, misconceptions on solar energy, and approach to adopt solar energy solutions. This training is a part of the "ENERGY LITERACY TRAINING" of the Energy Swaraj Foundation

09-07-2024
Date

Prof. Chetan Singh Solanki

Organization

Funding Partners
LUMINOUS

The authenticity of this certificate can be validated at https://www.es-pal.org/verifyCertificate

Copy of certificate of Dr. G. Baskar

HI LEARN EDUTECH INSTITUTE
An ISO Certified Institute MSME, GOI Registered
Bijapur/Vijayapur, Karanataka www.hleinstitute.com

CERTIFICATE OF PARTICIPATION

PROUDLY PRESENTED TO

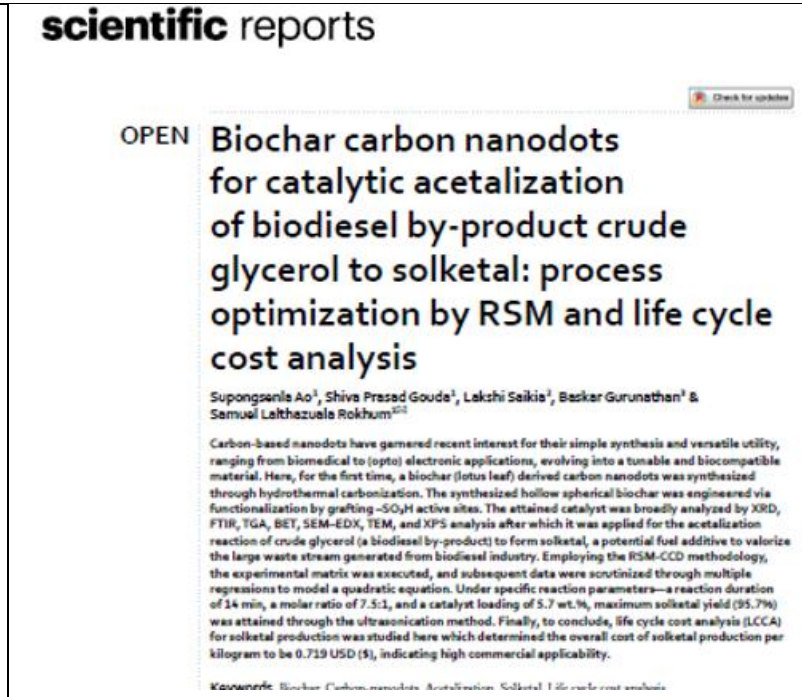
DR. L. F. A. ANAND RAJ
ASSOCIATE PROFESSOR AND HEAD,
ST. JOSEPH'S COLLEGE OF ENGINEERING, CHENNAI, TAMIL NADU

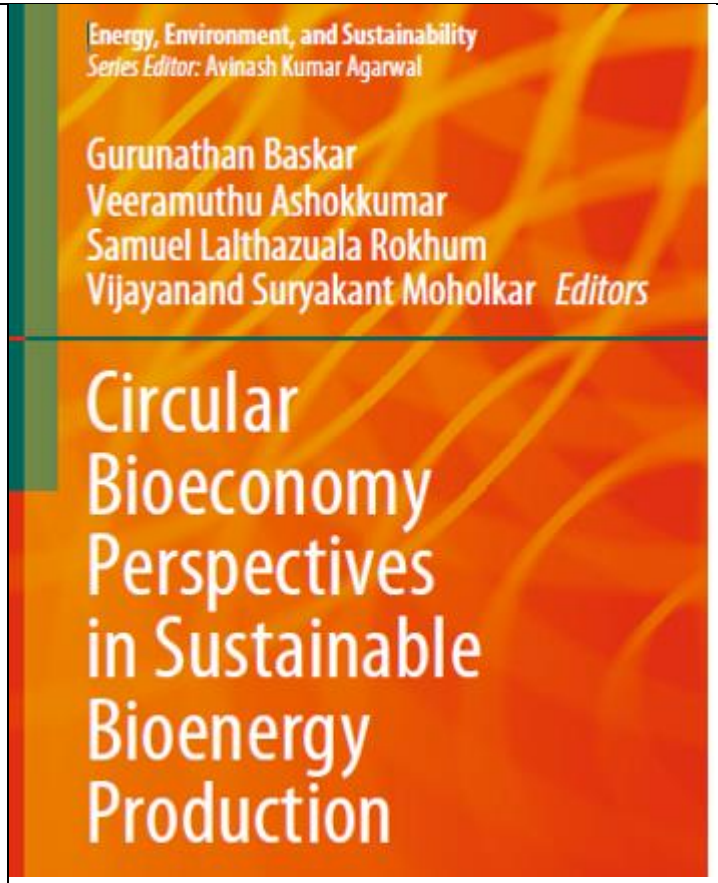
For Participating in One Week National Level Online Faculty Development Programme (FDP) on
"RESEARCH METHODOLOGY, SYSTEMATIC LITERATURE REVIEW & REFERENCES"
from 21 to 27 August 2024

EN.M.H.KOLHAR
FDP Coordinator

Dr.Sirajuddin.M.Horaginamani
Director, HLE Institute

6.	**AWARDS WON BY FACULTY** Knowledge Research Academy Coimbatore, Tamil Nadu (An MSME Registered Organization) UDYAM-TN-03-0021905 International Award Ceremony on Independence Day Education Awards [IDEA 2024] BEST FACULTY AWARD This Certificate of Excellence is awarded to Dr. L. F. A. Anand Raj Associate Professor and Head, Department of Biotechnology, St. Joseph's College of Engineering, OMR, Chennai-600119 in recognition of his outstanding contribution in Academics and Research 15th August 2024 Director *Copy of certificate of Dr. L. F. A. Anand Raj*	-Dr. L. F. A. Anand Raj has been honored with the Best Faculty Award at IDEA 2024.
7.	**PAPER PUBLICATIONS/ BOOK CHAPTERS**	**Baskar G**, Keerthana K, Supriya A, Pravin R, Abinesh AR & Yuvaraaj SA, Synthesis of phycoerythrin-Ag-ZnO nanobiocomposite from marine red algae Porphyridium purpureum for anticancer applications against MCF-7 cell line, Indian Journal of Experimental Biology, 62 (2024) 429-435.

	 scientific reports OPEN **Biochar carbon nanodots for catalytic acetalization of biodiesel by-product crude glycerol to solketal: process optimization by RSM and life cycle cost analysis** Supongsenla Ao[1], Shiva Prasad Gouda[1], Lakshi Saikia[1], Baskar Gurunathan[1] & Samuel Lalthazuala Rokhum[2] Carbon-based nanodots have garnered recent interest for their simple synthesis and versatile utility, ranging from biomedical to (opto) electronic applications, evolving into a tunable and biocompatible material. Here, for the first time, a biochar (lotus leaf) derived carbon nanodots was synthesized through hydrothermal carbonization. The synthesized hollow spherical biochar was engineered via functionalization by grafting –SO_3H active sites. The attained catalyst was broadly analyzed by XRD, FTIR, TGA, BET, SEM–EDX, TEM, and XPS analysis after which it was applied for the acetalization reaction of crude glycerol (a biodiesel by-product) to form solketal, a potential fuel additive to valorize the large waste stream generated from biodiesel industry. Employing the RSM-CCD methodology, the experimental matrix was executed, and subsequent data were scrutinized through multiple regressions to model a quadratic equation. Under specific reaction parameters—a reaction duration of 14 min, a molar ratio of 7.5:1, and a catalyst loading of 5.7 wt.%, maximum solketal yield (95.7%) was attained through the ultrasonication method. Finally, to conclude, life cycle cost analysis (LCCA) for solketal production was studied here which determined the overall cost of solketal production per kilogram to be 0.719 USD ($), indicating high commercial applicability. Keywords: Biochar, Carbon nanodots, Acetalization, Solketal, Life cycle cost analysis	**Dr. G. Baskar** - Edited a Book Circular Bioeconomy Perspectives in Sustainable Bioenergy Production by Springer Nature Singapore Pte Ltd.


Energy, Environment, and Sustainability
Series Editor: Avinash Kumar Agarwal
Gurunathan Baskar
Veeramuthu Ashokkumar
Samuel Lalthazuala Rokhum
Vijayanand Suryakant Moholkar Editors
Circular Bioeconomy Perspectives in Sustainable Bioenergy Production

DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
1.	**COLLABARATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS**	
2.	**INDUSTRIAL VISIT**	On **August 6th** , IVth Year Chemical Engineering Students had Industrial Visit to **" Nippo Indo Pvt Ltd"** Along With Dr.S.Sujatha and Mr.P.Anand Kumar. On August 13th , IIIrd Year Chemical Students had Industrial Visit to "Modern Bakers Pvt Ltd" along with Dr.N.Magesh and Ms.R.Lavanya.
3.	**NGO**	IVth Year Chemical Engineering Students had NGO Visit to "Mahimai Illam" Chengalpattu on 02.08.2024 IInd Year Chemical Engineering Students had a NGO Visit to "Mahimai Illam" Chengalpattu on 22.08.2024.
4.	**GUEST LECTURE**	On August 29, Dr.P.Senthil Kumar,Associate Professor, Center for Pollution Control and Environmental Engineering delivered a Guest Lecture on "Research Opportunities and Job prospectus in Waste water treatment"
5.	**FDP/WORKSHOP/CONFERENCE**	
6.	**SYMPOSIUM**	On August 31st Department of Chemical Engineering Organized Syposium. A Total of 157 Particpated from 12 different colleges.
7.	**NPTEL/COURSERA**	**Mr.Santhosh K J** of IIIrd Year Chemical has been awarded with a specialization certificate for completing 4 Courses in Coursera.
8.	**VALUE ADDED COURSES**	-
9.	**COMPETITIONS ATTENDED BY STUDENTS**	

10.	**AWARDS/PRIZE WON BY STUDENTS**	
11.	**INDUSTRIAL PROJECTS DONE BY STUDENTS**	
12.	**PUBLICATIONS(ONLY PUBLISHED) DETAILS**	**Dr. S. Sujatha,** Assistant Professor in the Department of Chemical Engineering at St. Joseph's College of Engineering, has published a paper titled *"Metal–organic framework-enabled biomass conversion technologies for microalgae bio-refinery in the food industry"* in the **Journal of the Science of Food and Agriculture**.
13.	**FUNDED PROJECTS**	
14.	**STAFF CONFERENCE PRESENTATION**	

Prepared By,
(Dr. Magesh.N)
Department Coordinator

(Dr. N.Venkatesh)
Head of the Department

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The

Prin

cipal

St. Joseph's College of

Engineering

OMR, Chennai – 119.

Subject: Brief report on the monthly activities undertaken by **Computer Science and Engineering** department for **August 2024**

Respected sir,

Referring to the subject as mentioned above, I am **Dr.E.Ahila Devi,** the department coordinator NAAC, on the behalf of entire department, here presenting you the briefs of activities undertaken by the department.

Sl. No.	Event with Photo	Description
1	**24 HOURS HACKATHON**	**Date:** 29 & 30 th August 2024 **Venue: Placement Block** **Nature of Event:** 24 hrs Hackathon

		Participants: 33 Teams Organized by: Department of CSE Objective: • Develop new solutions, products, or technologies in a short time frame, pushing the boundaries of creativity and problem-solving. • Bring together diverse individuals to work as a team, share knowledge, and build professional connections. • Provide hands-on experience to learn new skills and tools while rapidly prototyping and testing ideas. Outcome: • Fresh ideas, prototypes, or solutions that address specific problems or create new opportunities. • Strengthened relationships and improved teamwork among participants, often leading to future collaborations. • Enhanced skills and knowledge for participants through hands-on experience and problem-solving.

2	**Alumni talk – HEXAWARE**	

Date: 28-8-24
Venue: Virtual
Nature of Event: Alumni talk
Participant: IV-year Students
Organized by: Department of CSE
Objective:

- Alumni talks can facilitate networking opportunities between current students and alumni.
- 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.

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	Industrial Visit - Al- Cloud Solutions	

Date: 08.08.2024
Venue: Al- Cloud Solutions
Nature of Event: Industrial Visit
Participants: III YEAR CSE A, B, C
Organized by: Department of CSE
Objective:

- Provide practical insights into how industrial processes and operations work, complementing theoretical knowledge.
- Familiarize participants with real-world applications, technologies, and best practices used in the industry.
- Offer a glimpse into potential career paths, company cultures, and job roles within the industry.

Outcome:

- Gained practical knowledge of industrial processes, technologies, and operations.
- Exposure to industry practices, challenges, and solutions, bridging the gap between theory and practice.
- Increased awareness of potential career opportunities and insights into different roles and company cultures.

Prepared By,

Department Coordinator

Dr.E.Ahila Devi

Head of the Department

Dr.V.Muthulakshmi

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St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. Joseph's Group of Institutions

OMR, Chennai - 119

Day:Friday

30.08.2024

Date:

To

The Principal

St. Joseph's College of Engineering

OMR, Chennai – 119.

Subject: Brief report on the activities undertaken by **ECE** department for the month of August in the year **2024.**

Respected Sir,

Referring to the subject as mentioned above, I **Dr. S. Rajeshkannan,** the Department Co-ordinator NAAC, on behalf of the entire department, submitting the list of activities undertaken by the department.

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

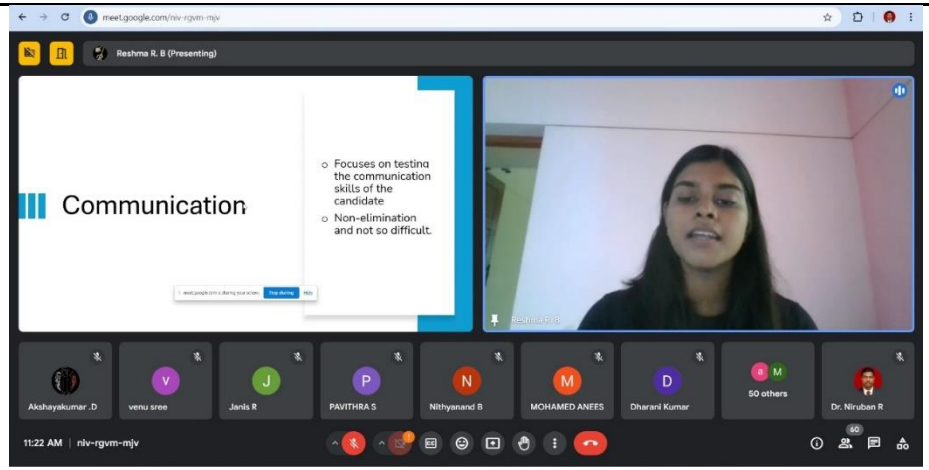
Events conducted:

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

1. A) Alumni Talk 1	**Report**

On 2nd August 2024, our esteemed alumnus Mr. Tharun Prasath J who was the recipient of our department Best Outgoing student Award for the batch 2019 – 2023. He had attended the GATE 2023 exam and had obtained a score of 728 out of 1000. He got admission for doing his M. Tech Programme specialization in Digital Signal Processing in Indian Institute of Space Science and Technology, Trivandrum, a prestigious organization under Ministry of Space, Government of India. Tharun provided an insightful talk for our III-year students regarding project competitions and encouraged them to start building projects on their own for participating in various national and international level competitions.

1. B) Alumni Talk 2	Report	
	The placement guidance session on August 18, 2024, featuring Reshma R B, a Packaged App Development Analyst at Accenture, provided invaluable insights into the company's recruitment process and expectations for candidates. Reshma, an alumnus of the 2018-2022 batch, outlined the various stages of the recruitment process, emphasizing the importance of aligning skills and experiences with Accenture's requirements. She highlighted the technical and soft skills crucial for success in the tests and interviews, offering practical advice on resume crafting and interview preparation. The session significantly benefited participating students by enhancing their understanding of the recruitment process, boosting their confidence, and improving their preparedness for upcoming placement opportunities at Accenture.	


meet.google.com/niv-rgvm-mjv
Reshma R. B (Presenting)
Communication
Focuses on testing the communication skills of the candidate
Non-elimination and not so difficult.
Akshayakumar .D
venu sree
Janis R
PAVITHRA S
Nithyanand B
MOHAMED ANEES
Dharani Kumar
50 others
Dr. Niruban R
11:22 AM | niv-rgvm-mjv

2. A) SEERA Activity -1 (Second year)	Report	
	The ECE department held a comprehensive SEERA program on August 22, 2024 to second year students. The program focused on improving students' English language skills, awareness of VLSI design and 5G technology, and career opportunities in these fields. Students were also introduced to coding modules in C, Java, and Python. The overall goal of the workshop was to motivate students and equip them with the necessary skills for success in the field of electronics and communication engineering.	

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OMR, CHENNAI - 119

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

SEERA

II YEAR ECE

Outcomes

Motivated to improvise Listening, Reading, Writing, and Speaking Skills for IELTS Awareness on Prerequisite for VLSI Design and 5G Technology PEP Centre.

Career Opportunities in VLSI and 5G Technology.

Practicing the Coding modules in C , JAVA and Python in Skill rack .

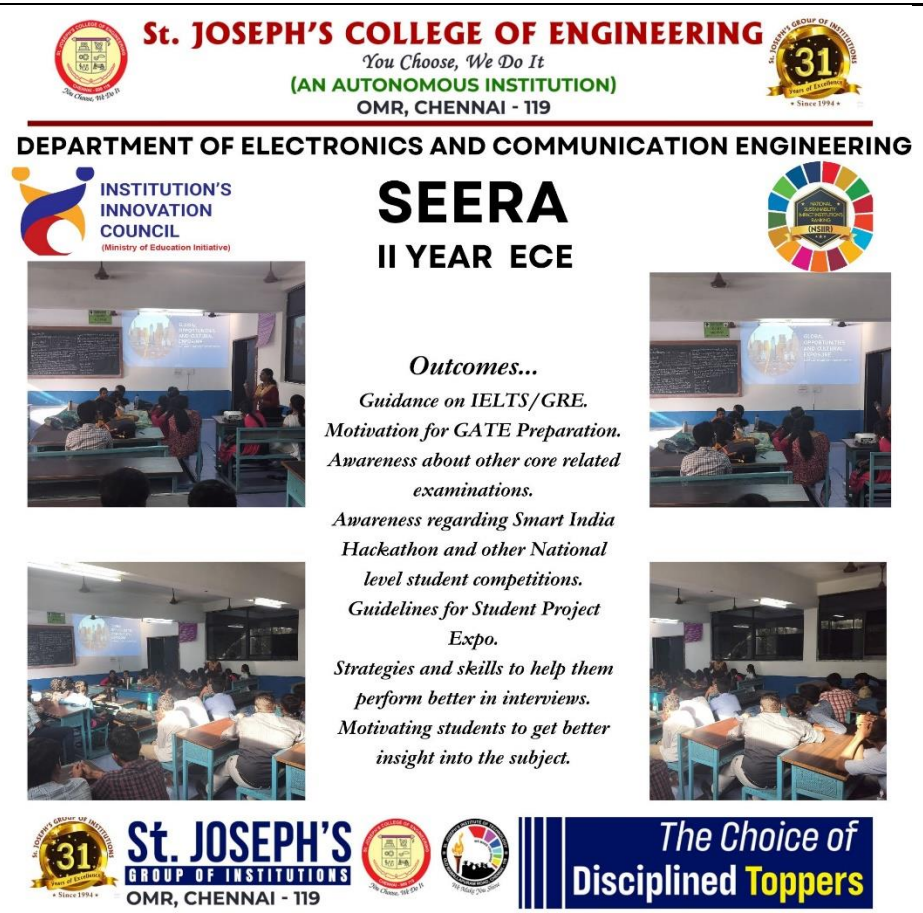
Motivating students to get better insight into the Digital Electronics.

22.08.2024

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

The Choice of Disciplined Toppers

2.B) SEERA Activity - 2 (Second year)	Report	
	The ECE department conducted the SEERA program on August 16, 2024. The program focused on providing students with essential guidance for competitive exams, career preparation, and academic development. Key outcomes included: Guidance on IELTS/GRE , Motivation for GATE preparation, Awareness about other core-related examinations ,Awareness regarding Smart India Hackathon and other national level student competitions, Strategies and skills to help students perform better in interviews ,Motivating students to get better insight into the subject. These initiatives aim to equip students with the necessary skills and knowledge to excel in their academic pursuits and future careers.	

	
2.C) SEERA Activity - 3 (Third year)	**Report**
	The ECE department conducted a SEERA program on August 7, 2024, for third-year students. The program focused on enhancing students'

academic skills, technical proficiency, and career readiness. Key areas covered included general aptitude for GATE 2025, web development using CSS and HTML, time response analysis, and coding challenges through SkillRack. Students engaged in hands-on practice and learned from expert faculty to improve their understanding of these critical topics, preparing them for future academic pursuits and professional opportunities.

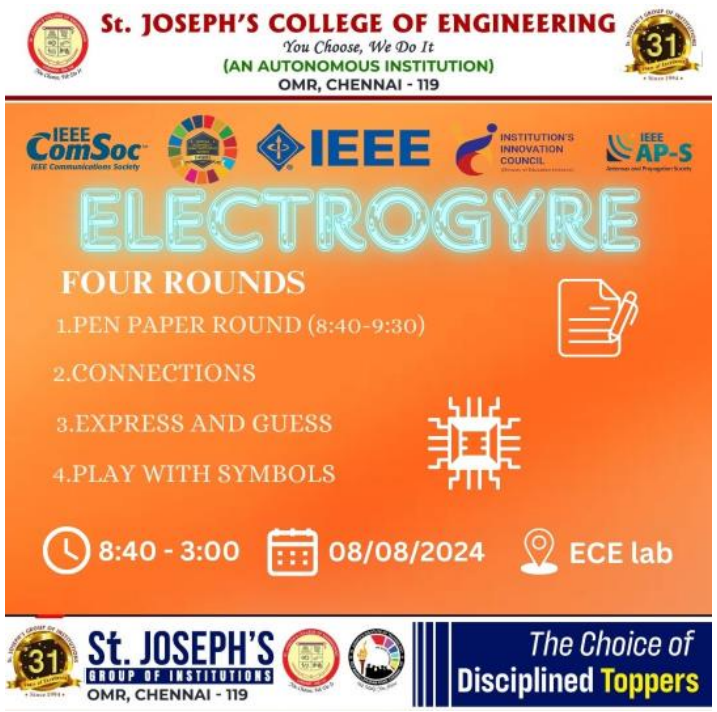
2.D) SEERA Activity - 4 (Third year)	**Report**

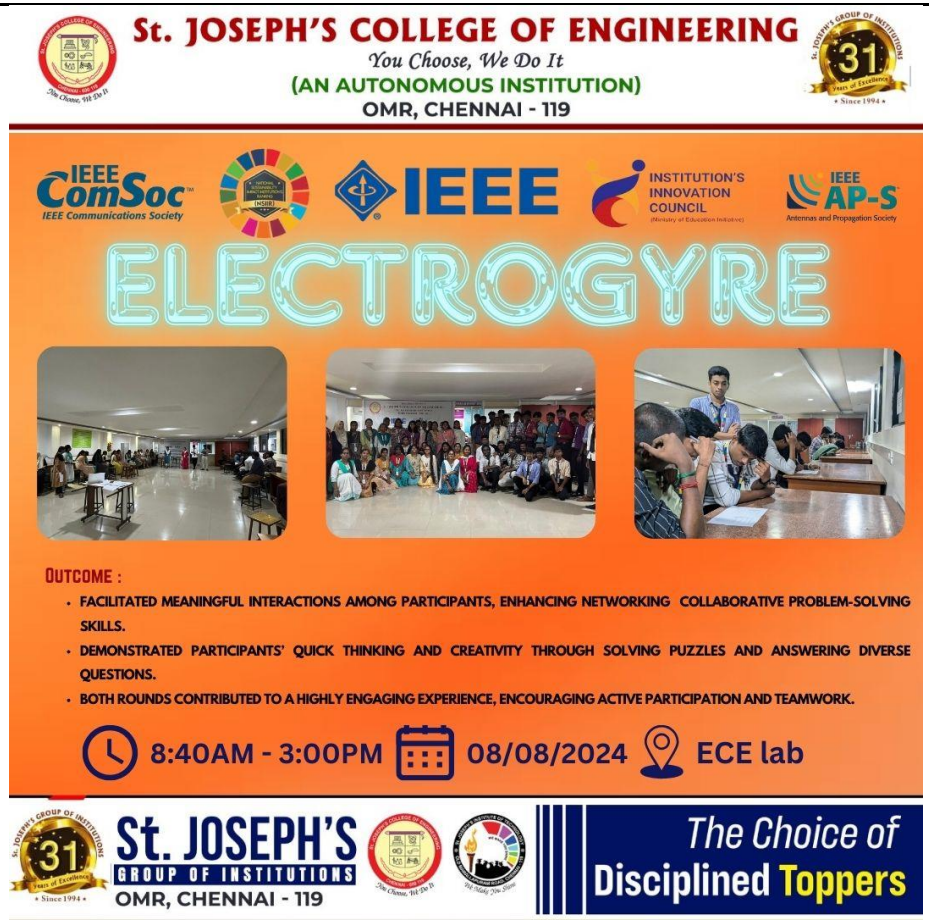
The ECE department conducted a comprehensive SEERA program on August 14, 2024, for third-year students. The program covered a wide range of topics, including advanced VLSI design, in-depth analysis of social media's impact, effective strategies for GATE exam preparation, practical problem-solving skills through Skillrack, and a thorough understanding of polar plots in control systems. Students engaged in hands-on activities, learned from expert faculty, and developed essential skills for their future academic pursuits and professional opportunities.

2.E) SEERA Activity - 5 (Third year)	**Report**

The ECE department conducted a comprehensive SEERA program on August 28, 2024, for third-year students. The program focused on enhancing students' academic skills, technical proficiency, and career readiness. Key areas covered included employability strategies, group discussions, exam preparation, skill development through Skillrack, and the IC555 timer. Through these sessions, students gained valuable insights, developed practical skills, and prepared themselves for future academic pursuits and professional opportunities.

3. A) IEEE Event -1	**Report**

	On August 6th, our ECE department successfully conducted an IEEE Communications Society and Antennas and Propagation Society event, "Electrogyre." The day-long competition, held from 9 AM to 4 PM, challenged students with a series of exciting rounds designed to test their knowledge and problem-solving abilities. This event provided a dynamic platform for students to showcase their skills and foster a spirit of collaboration and innovation within the ECE community.	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IEEE ComSoc
IEEE Communications Society
IEEE
INSTITUTION'S INNOVATION COUNCIL
IEEE AP-S
Antennas and Propagation Society
ELECTROGYRE
OUTCOME :
FACILITATED MEANINGFUL INTERACTIONS AMONG PARTICIPANTS, ENHANCING NETWORKING COLLABORATIVE PROBLEM-SOLVING SKILLS.
DEMONSTRATED PARTICIPANTS' QUICK THINKING AND CREATIVITY THROUGH SOLVING PUZZLES AND ANSWERING DIVERSE QUESTIONS.
BOTH ROUNDS CONTRIBUTED TO A HIGHLY ENGAGING EXPERIENCE, ENCOURAGING ACTIVE PARTICIPATION AND TEAMWORK.
8:40AM - 3:00PM
08/08/2024
ECE lab
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3.B) IEEE Event 2		
	Our ECE department hosted a captivating guest lecture on August 5th, featuring Youghessh S, the visionary founder of Syasan's Career Analytics. Students gained invaluable insights into the future of coding, exploring the transformative power of AI, machine learning, cloud computing, and other cutting-edge technologies. The session delved into the ethical dimensions of AI and the exciting realms of AR/VR, blockchain, and quantum computing, equipping our students with the knowledge to shape tomorrow's digital landscape.	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
in association with
IEEE
IEEE ComSoc
IEEE Communications Society
INSTITUTION'S INNOVATION COUNCIL
THE FUTURE OF CODING: TRENDS AND SKILLS FOR TOMORROW'S DEVELOPERS
Youghessh S
Founder & Executive Director
Syasan's Career Analytics Technology Solutions Pvt Ltd
Outcome :
• Focus on AI, machine learning, and cloud computing. Develop expertise in AI frameworks, cloud platforms, and DevOps practices.
• Prioritize AI ethics and responsible tech use. Strengthen understanding of AI ethics and regulatory compliance.
• Specialize in AR/VR and emerging technologies. Build experience in AR/VR development and immersive tech.
• Emphasize blockchain and quantum computing. Gain skills in blockchain technologies and quantum programming.
05-08-2024
10:20 am - 12:20 pm
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3.C) IEEE Event 3	Report	
	On August 2, 2024, an insightful online seminar was conducted on Google Meet, focusing on the theme "Future-Proofing Industry 4.0: The Role of Machine Learning and SDN in Enhancing Network Security." The session was led by Dr. Neena Susan Shaji, a distinguished professor at BITS Pilani if Dubai campus, who shared valuable insights into the integration of machine learning and Software-Defined Networking (SDN) to fortify network security in the context of Industry 4.0. 	
3.D) IEEE Event 4	**Report**	

<table>
<tr>
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<td>St. Joseph's College of Engineering's ECE department successfully conducted an IEEE Communications Society registration drive on August 6th for 2nd-year students. The event aimed to introduce students to the world of IEEE and the opportunities it offers. With the goal of empowering young minds and building future leaders, the drive encouraged students to explore the benefits of IEEE membership and participate in its various initiatives.
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<tr>
<td>4. A) IETE Event</td>
<td>Report</td>
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	The IETE chapter of the ECE department organized a successful event for second-year students to introduce them to the activities of IETE and encourage their participation. Twenty teams competed in a three-round quiz, with nine teams advancing to the final round. The final round focused on public speaking skills, and the judging panel evaluated presentations and content delivery. The first round featured a pen and paper quiz consisting of ten technical questions on basic electronic concepts and ten non-technical aptitude questions. This round tested the fundamental knowledge of the participants. In the second round, participants were challenged with a picture association task. Four images were displayed, and the teams had to identify the one common word linking all of them. The final round was designed to assess and enhance the public speaking skills of the participants. Each team was provided with a topic and specific instructions on how to approach it—whether as a debate, a speech, a marketing strategy, a sponsorship pitch, or a mock interview.	

5. A) OPTICA Event 1	**Report**	

	The OPTICA Student Chapter of Electronics and Communication Engineering Department organized an engaging outreach event at Tiaano Vidyashram CBSE School, Tambaram, Mudichur. This initiative aimed to introduce students of classes 9, 10, 11, and 12 to advanced engineering concepts through practical demonstrations and interactive projects. The event, held on 9th August 2024(Friday), was part of a broader effort to inspire students and provide hands-on learning experiences.	

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IN ASSOCIATION WITH

OPTICA STUDENT CHAPTER

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)

PROUDLY PRESENTS

SCHOOL VISIT'24

OUTCOMES OF THE EVENT:

- The OPTICA Student Chapter of St. Joseph's College of Engineering held an outreach event at Tiaano Vidyashrm CBSE School pushpagiri, kanchipuram on 9 August 2024.
- Targeting classes 9-12, the event featured hands-on engineering projects and interactive demonstrations.
- The OPTICA members explained their projects with enthusiasm, making complex concepts easy to understand.
- Tinkercad simulations provided students with virtual insights into circuit design and engineering.
- Feedback from the school was highly positive, noting the event's educational impact

TIAANO VIDYASHRM CBSE SCHOOL
PUSHPAGIRI,KANCHIPURAM

09.08.2024

9:40AM TO 03:00PM

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5. B) OPTICA Event 2		
	A placement talk on the topic "From Campus to Corporate" was conducted by Department of ECE for the third and final year ECE students by Ms. Evangeline Priyadharsini, Senior Project Coordinator at 360 Degree Cloud Technologies, Noida. The event saw active participation from around 80 students, who were keen to learn about the transition from academic life to the corporate world.	

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INSTITUTION'S INNOVATION COUNCIL

(Ministry of Education Initiative)

IN ASSOCIATION WITH

OPTICA STUDENT CHAPTER

PLACEMENT TALK FROM CAMPUS TO CORPORATE

OUTCOMES

- Students learned the skills and professionalism needed for a smooth transition from campus to corporate life.
- Practical advice was given on resume writing, interviews, and workplace behavior.
- The session provided opportunities for students to connect with industry experts
- Students gained clarity and confidence about their career paths.

16th August

10.00 A.M -12.20 P.M

EVANGELINE PRIVADHARSINI

Senior Project Coordinator

360 Degree CloudTechnologies, Noida

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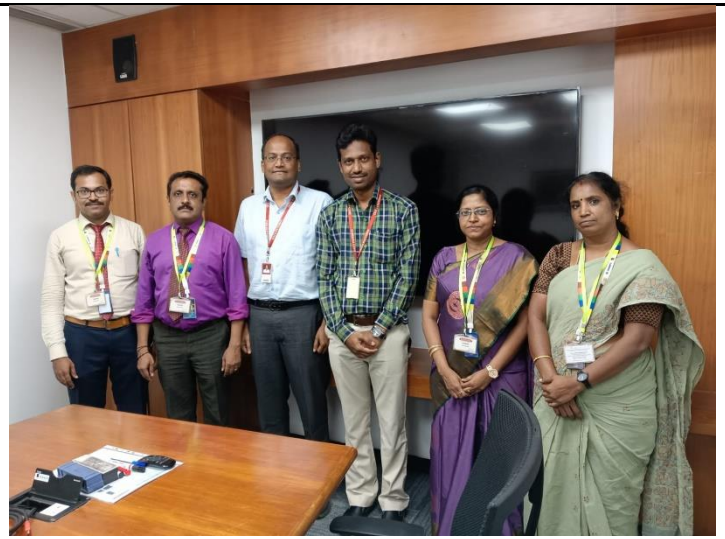
5. A) NGO visit 1	**Report**
	On August 29, 2024, the II ECE-A students from St. Joseph's College of Engineering embarked on a heartwarming social outreach program to Little Flocks Children Home in Kondamanhalam. The day was filled with joy, laughter, and learning as our students interacted with the children through various activities, including storytelling, games, and craft sessions. We also introduced them to the fascinating world of basic electronics, sparking their curiosity and inspiring them to explore science and technology. The visit was a memorable experience, leaving us with a renewed sense of purpose and the determination to continue making a positive impact on the community.
B) NGO visit 2	**Report**

On August 29, 2024, ECE students from St. Joseph's College of Engineering visited Dazzling Stone Orphanage in Kundrathur. The day was filled with heartwarming interactions and unforgettable moments with the children. We were amazed by their talents, engaged in fun activities, and witnessed the dedication of the orphanage staff. Our visit was a reminder of the positive impact we can make on the lives of these children through small acts of kindness.

6.A) Industry collaboration Interaction -1	**Report**

	On August 29, 2024, the ECE Department faculties have visited Renault **Nissan Automotive India Private Limited, Oragadam,** to discuss potential collaborations. The visit included a company overview, a tour of their facilities, and productive discussions with Renault Nissan's talent management and learning and development heads. The key areas of collaboration explored were student placements, internships, and joint research projects. Renault Nissan expressed enthusiasm for these initiatives, and the department will follow up to ensure their successful implementation.	
6. B)Industry collaboration Interaction -2	**Report**	

	ECE Department faculties visited **Data Patterns (India) Ltd., Chennai**, to discuss establishing a Center of Excellence (CoE) on our campus. During the meeting with Mr. Soundarapandiyan and Mr. Karthick, they have explored the potential objectives, structure, and implementation strategies for the CoE. The primary goals include fostering knowledge sharing and developing talent to enhance core placements. To achieve these objectives, we discussed allocating resources, providing lab facilities, and equipping the CoE with component-level evaluation boards to facilitate students in meeting industry requirements for design and product development.	
6.C)Industry collaboration Interaction -3	**Report**	

 	Electronics and Communication Engineering faculties recently visited **Vaan Megam Networks and Vaayusastra**, two prominent companies in the IITM Research Park, Chennai. Vaan Megam Networks, a leader in 5G services, offers test-as-a-service solutions for enterprises, telecom, and system integrators. Vaayusastra specializes in drone engineering and manufacturing. During their visit, our faculty had in-depth discussions with Mr. S.H. Muthukumar, the CEO, about potential collaborations, including the possibility of signing a Memorandum of Understanding (MoU), providing guidance to startups, and offering internship and industry-academia partnership opportunities.	
6. D)Industry collaboration Interaction -4	**Report**	

	ECE Faculty Visit to Healthcare Technology Innovation Centre (HTIC) Our ECE faculty members recently visited the Healthcare Technology Innovation Centre (HTIC) at IITM Research Park, Chennai. HTIC, a collaborative venture between IIT Madras and the Government of India, is dedicated to developing cutting-edge healthcare technologies. During the visit, we engaged in fruitful discussions with Dr. Nabeel P M, Lead Research Scientist, to explore potential collaborations	
6.E) Industry collaboration Interaction -5	**Report**	

	On 6th August 2024, Sathish Gurumoorthy, Enterprise Architect at HCLTech specializing in Aerospace, Rail, and Automotive had a discussion with principal for industry- institution collaboration with Electronics and communication engineering department.	
7. A) Industrial Visit -1	**Report**	

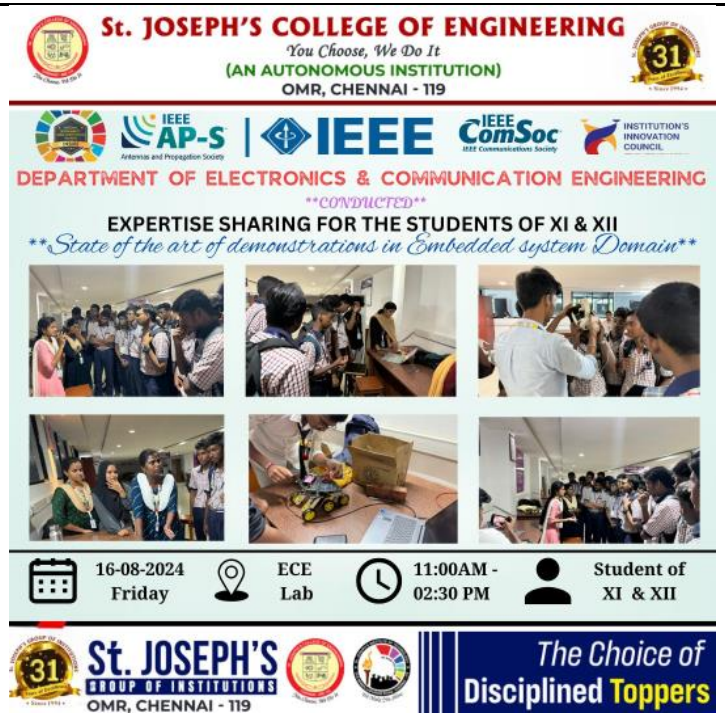
On August 12, 2024, third-year Electronics and Communication Engineering students from St. Joseph's College of Engineering embarked on an enriching educational excursion to the Indian Space Research Organization (ISRO) facility in Sriharikota. The visit offered students a unique opportunity to witness firsthand the cutting-edge advancements in India's space program and to grasp the practical relevance of their academic pursuits.

7. B) Industrial Visit -2	**Report**

	On August 6, 2024, a group of 51 students from the ECE department visited the Pondicherry Lighthouse. The students were welcomed by the lighthouse authorities and received a comprehensive briefing on the lighthouse's history, purpose, and operations. They also enjoyed a guided tour, exploring the various navigational equipment and learning about the challenges of maintaining such a vital landmark.	
7.C) Industrial Visit -3	**Report**	

	On August 7, 2024, a class of ECE students from SJCE visited the Pondicherry Lighthouse, where they were divided into smaller groups for effective interaction. They attended an introductory session and a guided tour, gaining insights into the operational principles and technology of lighthouses, including lighting and navigation. The students explored the historical significance and technological advancements of lighthouses, recognized their critical role in maritime safety and navigation, and learned about the maintenance procedures and challenges faced by lighthouse authorities. The visit provided a comprehensive understanding of lighthouse operations and their importance in ensuring safe maritime navigation	
7.D) Industrial Visit -4	**Report**	

	ECE Final year students from St. Joseph's College of Engineering embarked on a fascinating journey to the Pondicherry Lighthouse on August 7, 2024. They have gained valuable insights into its operations, history, and significance in maritime navigation. They learned about the technology used, the challenges faced by lighthouse authorities, and the critical role lighthouses play in ensuring safe navigation. This educational experience enriched the students' understanding of maritime infrastructure and its importance.	
8. School Event	**Report**	



The Department of Electronics and Communication Engineering at St. Joseph's College of Engineering (SJCE) recently conducted a school event program for Class 11 and 12 students from All Angels Matriculation Higher Secondary School in Chennai. The event provided students with a comprehensive introduction to the field of Robotics, featuring interactive quizzes, hands-on project demonstrations, and expert guidance. The workshop was a resounding success, inspiring students to explore Robotics further and nurturing their interest in technology.

9. JETSIGNUM' 24 A National Level Techinical Symposium	**Report**	
	The National Level Technical Symposium JETSIGNUM'24, held on August 31, 2024, was a resounding success. With 316 participants from 42 colleges, the event showcased the vibrant and innovative spirit of engineering students. The symposium featured a variety of technical events, where teams competed for prizes. The winners of the I, II, and III prizes received cash rewards of Rs. 3000, Rs. 2000, and Rs. 1000, respectively. The symposium provided a platform for students to showcase their skills, network with peers, and learn from industry experts. A total of Rs. 30,000 prize money was awarded. 	

9. FDP/Workshop:

The following staff member have participated in various FDP/Workshop conducted by other institutions during the month of August 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.	Mrs. P. Thenmozhi	Renewable Energy, Electric Vehicle Charging and Grid Integration: An Introduction	National	FDP	12/08/24 to 17/8/24	6	Sri Sai Ram Institute of Technology
2.	Dr. S Vinayagapriya	Statistical Analysis with Excel"	National	FDP	21.8.24 to 26.8.24	6	Research Foundation of India
3.	Dr. A. Simon Prabu	Accelerating AI Driven Business Innovation: The Role of CPUs, GPUs, TPUs and NPUs	National	FDP	16-08-2024 to 22-08-2024	7	SA Engineering College
4.	Dr. S. Aghalya	Industrial Applications of Embedded systems and IoT	National	FDP	22.08.2024 to 28.08.2024	7	Rajalakshmi Engineering college

10. **Patent Published**

The following staff member have published patent during the month of August 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.	202411036461	Mrs. R. Madhumitha	Mrs. R. Madhumitha	Exploring Machine Learning approaches for automated Covid-19 detection and forecasting	01/07/2024	05/07/2024	-	
2.	202441058884	Mrs. E. Malarvizhi	Mrs. E. Malarvizhi	Intelligent Swarm Robotics System for autonomous inspection and maintenance of power transmission lines	08/07/2024	19/07/2024	-	
3.	202441056097 A	Mr G D Vignesh	Mr G D Vignesh	Multi-agent AI system for collaborative music composition and performance	08/07/2024	19/07/2024	-	
4.	202441061911 A	Dr. R. Niruban	Dr. R. Niruban	Multi-modal energy harvesting device utilizing ambient vibrations, thermal gradients, and radio frequency signals	08/07/2024	19/07/2024	-	

11.Publications

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

1. Dr. D. Lakshmi published a Journal titled" Hybrid model-based early diagnosis of esophageal disorders using convolutional neural network and refined logistic regression", in EURASIP Journal on Image and Video Processing.

Prepared By,

Mrs. M. Angelin Ponrani

Department Co-Ordinator

Head of the Department

Dr. S. Rajeshkannan

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OMR, CHENNAI - 119

Day: Monday

Date: 02.09.2024

To

The
Princ
ipal

St. Joseph's College of
Engineering

OMR, Chennai – 119.

Subject: Brief report on the monthly activities undertaken by **EEE** department for the **August** month **2024** year

Respected Sir

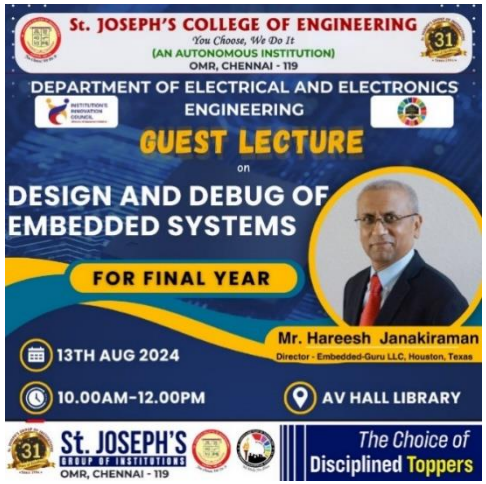
Referring to the subject as mentioned above, I am Mr.S.S.Harish the department coordinator NAAC, on the behalf of entire department, here presenting you the briefs of activities undertaken by the department.

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

Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)	C
1.	**Industrial visit- 4th year**	As a part of industry institutional teaching, Department of EEE of St. Joseph's College of Engineering has organized an Industrial Visit to 110KV Kadaperi Substation Tambaram for A section and North Chennai thermal power station Athipattu for the final year students of B and C on 9th , 16th and 12th August 2024 respectively.	

	 PIC: EVENT PHOTO	
2.	**Industrial visit- 3rd year** III-year EEE – A visited at 110KV KADAPERI SUBSTATION, TAMBARAM on 14/08/2024 III-year EEE – B visited at 110KV KADAPERI SUBSTATION, TAMBARAM on 13/08/2024 III-year EEE – C visited at 110KV KADAPERI SUBSTATION, TAMBARAM on 16/08/2024 ***PIC: EVENT PHOTO***	As a part of industry institutional teaching, Department of EEE of St. Joseph's College of Engineering has organized an **Industrial Visit to 110KV Kadaperi Substation Tambaram for the third year students on 13th , 14th and 16th August 2024**.

3.	Entrepreneurship Cell- Idea spark 	On August 7, 2024, the Entrepreneurship Cell of St. Joseph's College of Engineering hosted IDEA SPARK, an impactful event dedicated to innovation and entrepreneurship. Held at the Indoor Auditorium and the AV Hall Library, the event attracted enthusiastic participation and fostered a dynamic atmosphere for showcasing creativity. **Mr. R Ambalavanan, IA & AS Officer and Director of the Entrepreneurship Development and Innovation Institute Tamil Nadu,** delivered a keynote address emphasizing the pivotal role of entrepreneurship in driving both regional and national development. **Dr. Partheepan Rudrapati, CEO of Knowledge Xchange Community & Academic2IT,** followed with a compelling session on bridging the gap between academic knowledge and practical application.
4.	**GUEST LECTURE**	Our department organized a guest lecture for second year students on the topic "**Impacts of over voltages in Power Systems**" by **Dr. T. Saravanakumar, Project Engineering Senior Professional, Hitachi Energy**, Chennai at **Library AV** Hall on 9th August 2024**.** The speaker briefed about the general Components of EV, Wireless Power transfer Techniques and discussed about the role and functionalities of protection board, filter board, PFC board, Capacitor board, inverter board, and System board.

	 PIC: EVENT POSTER	
5.	**GUEST LECTURE** 	Our department organized a guest lecture on the topic "Design and debug of embedded systems" by **Mr.Hareesh Janakiraman ,Director , Embeddedguru LLC Texas** at **Library AV** Hall on 12th August 2024 for third year students and 13th August 2024 for fourth year students**.** Students gained a deep understanding of embedded systems design principles and real time processing. Improved their debugging skills for more efficient problem-solving in embedded systems. The lecture provided an industrial talk on industry –standard tools in embedded systems design and debugging.

PIC: EVENT POSTER

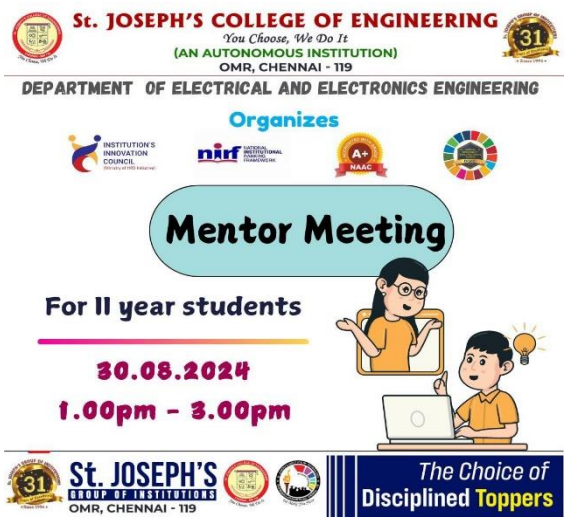
6.

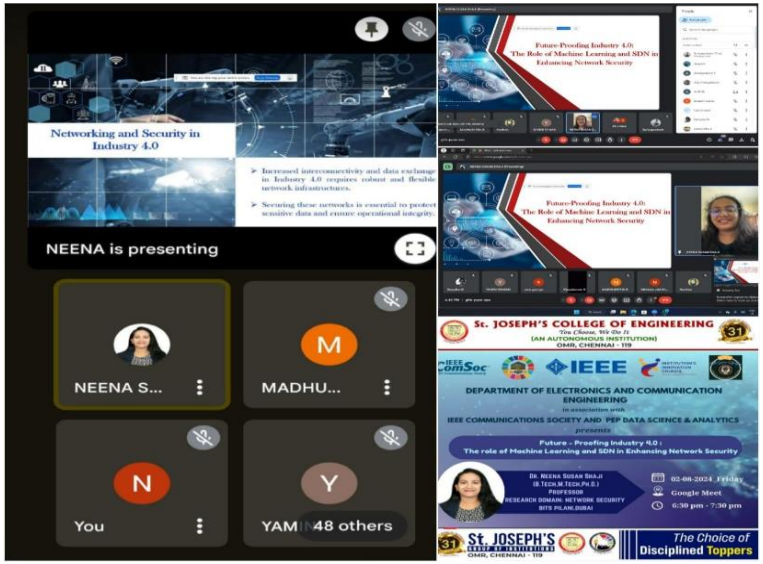
NGO Visit

PIC: VISIT PHOTO

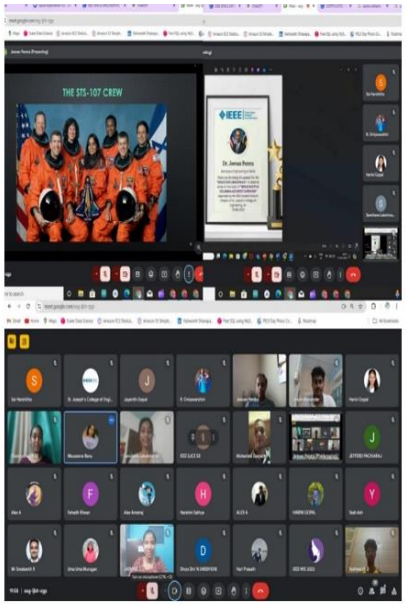
Our second year students have visited orphanage, old age homes and served food and interacted with them and perform some activities for making them happy. They supported the homemates by providing groceries.

Date	YEAR/ SECTION	NGO PLACE DETAILS
14/08/24	II/B	Anbu thondu illam, chengelpet
14/08/24	II/C	CSI Mahimai illam, chengelpet

7.	**Mentor Meeting**  *PIC: EVENT POSTER*	On 30th August 2024, Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering, conducted Mentor meeting for II year students. Students were motivated to do NPTEL and other online courses on emerging Technology. Mentors motivated the students to participate in various project competition .Also they emphasised the importance of Skillrack.
8.	**IEEE activities**	IEEE Communication Society & APS SJCE SB -AG and IEEE St. Joseph's College of Engineering student chapter conducted an online webinar session on 02-08-2024. The topic for the session was "**THE ROLE OF MACHINE LEARNING AND SDN IN ENHANCING NETWORK SECURITY"** presented by **Dr. Neena Susan Shaji Professor BITS Pilani, Dubai**. Students from the Final year and pre-final year of the Department of Electronics and Communication Engineering participated.She discussed in the topics of Future Proofing Industry 4.o and explored about SDN, security of SDN, Networking and Security, Vulnerabilities Applications of ML, and Applying ML for Detecting Attacks and the Career opportunities in this field is discussed by her. Approximately 50+ students took part in this event over Gmeet.

	 *PIC: EVENT POSTER AND PHOTO*	
9.	**IEEE activities**	IEEE Communication Society and APS SJCE SB -AG in association with IEEE St. Joseph's College of Engineering student chapter conducted a guest lecture on 05-08-2024. The topic for the session was **"FUTURE OF CODING: Trends and Skills for Tommorow Developers "** presented by **Mr. Youghessh S, Founder and Executive Director of Syasan's Career Analytics Technology Solutions Pvt Ltd.** Students from the Pre-final year of the Department of Electronics and Communication Engineering participated. Certainly, he discussed about Focus on AI, Machine learning and cloud Computing. The detailed view of Trends in Electronics field, Introduction for DevOps were given Him. Approximately 50+ students took part in this event.

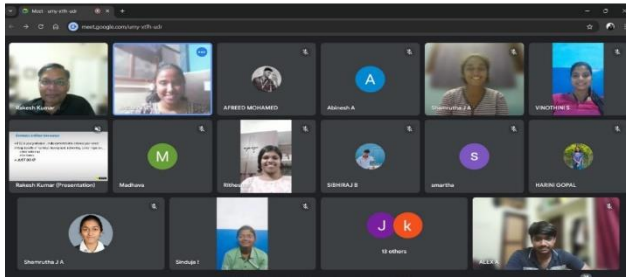
	 PIC: EVENT POSTER & PHOTO		
10.	**IEEE activities**	On August 3, 2024, the IEEE St. Joseph's College of Engineering Student Branch Chapter(IEEE SB 60101)hosted the inaugural session of Space Exploration 4.0. The event, which began at 7:00 PM, featured a captivating presentation by **Dr. Jeevan Perara, a NASA aerospace engineer**. Dr. Perara provided an in-depth overview of the Space Shuttle Columbia accident, discussing the critical moments and the impact on space exploration protocols. The session was attended by a total of 40 participants, including students, faculty, and space enthusiasts, who engaged actively in the discussion and Q&A segment. This successful kickoff is just the beginning of our journey into space exploration, and we look forward to bringing more exciting sessions in the future. **The event provided valuable insights into the Space Shuttle Columbia accident and fostered engaging discussions with the aerospace expert**	

	 ***PIC: EVENT POSTER & PHOTO***	
11.	**IEEE activities**	"The IEEE SIGHT Affinity Group, in collaboration with IEEE SJCE Student Branch, hosted an enriching online webinar titled **'Mental Health Unplugged-Online Therapy and Tech-Based Self-Care"** on August 8,2024 counselling psychologist and a PhD Scholar **Ms. Pavithraksmi K M** shared invaluable insights on navigating life's challenges and extracting wisdom from personal experiences. Approximately 35 participants from diverse backgrounds joined the session, which emphasized the transformative power of technology in empowering positive change. Through engaging discussions and practical advice, attendees were inspired to embark on a journey of self-improvement and success. The webinar, conducted via Google Meet, provided a platform for meaningful interaction and learning.

	 PIC: EVENT POSTER	
12.	**IEEE activities**	The "ENERGIZE QUIZ," event is organized by the IEEE Power and Energy Society of St. Joseph's College of Engineering on August 8, 2024, was an impactful online event dedicated to raising awareness about the crucial role of renewable energy in addressing climate change. Spanning from 8:00 AM to 10:00 PM, the quiz offered participants a unique opportunity to delve into the environmental benefits of sustainable energy sources, such as solar and wind, which are essential in reducing greenhouse gas emissions and fostering a cleaner, more sustainable future. The event was meticulously designed to not only test the knowledge of participants but also to educate them on the latest innovations and best practices within the renewable energy sector. A significant highlight of the quiz was the enthusiastic participation from students across various disciplines, demonstrating a widespread and growing interest in renewable energy. These students engaged deeply with the content, showcasing their commitment to understanding the complexities of sustainable energy and its pivotal role in global environmental stewardship. The event's format encouraged critical thinking and allowed students to explore the latest	

	 PIC: EVENT POSTER	advancements in renewable energy technologies, thereby broadening their perspectives and inspiring them to contribute to this vital field
13.	**IEEE activities**	IEEE St. Joseph's College of Engineering Photonics Society SJCE SB PH036(SBC60101L) hosted the event "ELEVATE - Mastering Linkedin for Career Growth" on August 13, 2024, featuring Ms. Naeema Nazar, an Assistant Professor at VISAT Engineering College, IEEE Photonics Society Global Strategy Representative for India, Kerala Student Branch Chapter Advisor of WiE, Comsoc. The session, held via Google Meet, focused on "Mastering in LinkedIn for Career Growth,"providing insights building a strong profile that clearly reflects your professional identity. Mam's presentation emphasized in Mastering LinkedIn is essential for boosting your professional visibility and connecting with valuable opportunities. It enhances your personal brand and positions you for career growth in a competitive job market. Nearly 30 students participated in this event.

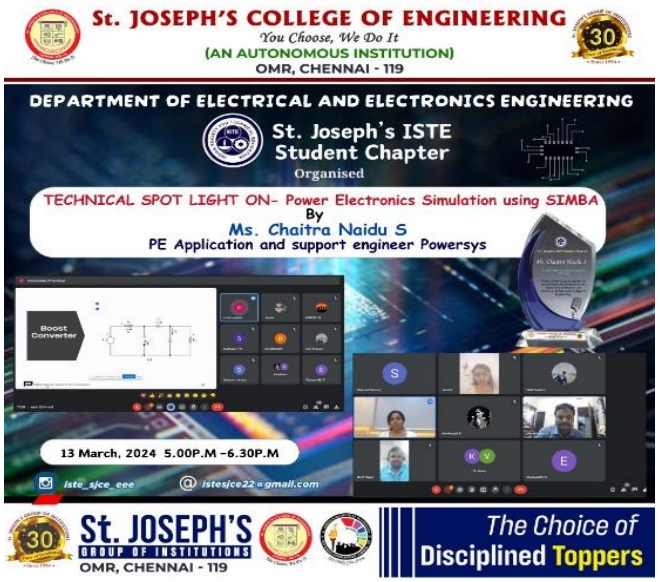
	 PIC: EVENT POSTER	
14.	**IEEE activities**	The **IEEE SJCE SB MAANAVAR MANDRAM** of St. Joseph's College of Engineering organized an engaging online pattimandram titled **"INDRIYA OODAGANGALIN VALARCHIYAAL TAMIZHMOZHI THAZHAIKIRADHA? THADUMARUGIRADHA?"** exploring the rich tapestry of Tamil language. The event, conducted with finesse in a virtual setting on the date of **15TH AUGUST 2024** with a total of 35 participants. **Members of IEEE** eloquently discussed the evolution of Tamil and its significant developments. The event's seamless execution was credited to the dedicated student coordinators. Jayavarshini M J, Oviya Varshini R, Nivetha B, Saniya Benzer E, Isha T, Hassan A, and Anas Javith A. The event concluded with a virtual photo session. Special thanks to **RUSKIN BRUCE A,** Assistant Professor, Department Of Mechanical Engineering, for judging the event in a right manner. Special thanks to **Naveena. S. K, Hariprasath. S,**

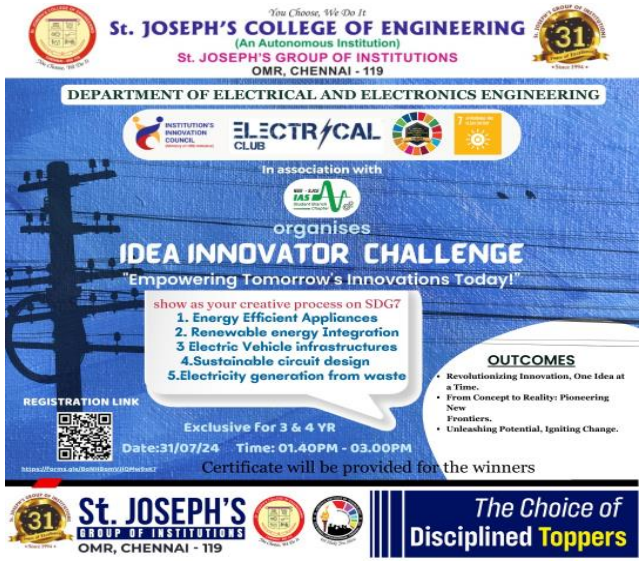
	 PIC: EVENT POSTER & PHOTO	**Yazhini. N, Yashwanth. D, Anaandh. J, Sowndharya. M** for raising voice for Tamil Language.
15.	**IEEE activities** 	**The IEEE Power Electronics Society Madras Chapter, in collaboration with the IEEE Power Electronics Society SJCE Student Branch**, organized a webinar titled **"Charting out a Successful Career in Semiconductors - Lessons Learned"** on **August 18th, 2024, at 7:30 PM IST.** The session was conducted by **Mr. Rakesh Kumar, an IEEE Life Fellow and candidate for IEEE VP-Elect 2025**. With his extensive experience in the semiconductor industry, Mr. Kumar provided participants with valuable insights into building a successful career in this field. He discussed the critical skills and knowledge required, highlighted various career pathways, and shared lessons learned from his own career journey. The webinar also covered current industry trends and the importance of staying updated with technological advancements. The event concluded with an engaging Q&A session,

	PIC: EVENT POSTER & PHOTO	where attendees had the opportunity to ask questions and receive practical advice**.**
16.	**IEEE activities** *PIC: EVENT POSTER & PHOTO*	IEEE SJCE Student branch in collaboration with IEEE JSS Academy Student Branch and IEEE Signal Processing Society hosted a webinar series on August 5, 2024, the IEEE community witnessed an enlightening event, "**Voices of IEEE**," focusing on the pivotal role of the Signal Processing Society in career management. Esteemed speaker **Dr. ARUN BALODI from IEEE Signal processing society shared his insights on how signal processing expertise can significantly enhance career opportunities**. He discussed the growing demand for signal processing professionals in sectors like telecommunications, healthcare, and finance. Attendees gained valuable knowledge on the latest trends, tools, and techniques in signal processing, as well as tips on leveraging these skills for career advancement. The interactive Q&A session allowed participants to engage directly with the experts, making the event highly informative and impactful. The event underscored the importance of continuous learning and professional development within the IEEE community

17.	**IEEE activities** ***PIC: EVENT POSTER & PHOTO***	IEEE St. Joseph's College of Engineering Student Branch, in collaboration with IEEE CVR College of Engineering, hosted an enlightening webinar series on August 19, 2024. The event, "**Voices of IEEE**," featured **Dr. Joseph Wei**, **a distinguished IEEE Board Member and expert in "tech for the elderly."** Dr. Wei delivered an insightful talk on the "IEEE Journey from Students to Professionals and the Benefits of Volunteering," sharing his experiences and advice on transitioning from student roles to professional careers. He emphasized how active involvement in IEEE can enhance career opportunities and provide valuable professional development. The session included practical tips on leveraging IEEE resources for career growth and featured an interactive Q&A segment where participants engaged directly with Speaker. Approximately 40+ students attended the session via Google Meet, gaining valuable insights and motivation for their professional journeys.
18.	**IEEE activities**	We the IEEE St. Joseph's College of Engineering Student Branch Chapter (SBC60101) hosted the event "**Voices of IEEE - Glimmer to Glory"** on August 20, 2024, featuring Mrs. Leslie Martinich, an IEEE Distinguished Lecturer and Founder of Competitive Focus. The session, held via Zoom, focused on "**The Future of Work: Engaged Leaders and Empowered Teams,"** providing insights into leadership and team dynamics. Mrs. Martinich's presentation emphasized the importance of adapting leadership strategies and empowering teams in the evolving work environment. The event saw enthusiastic participation from students, faculty, and IEEE members, who engaged in an interactive Q&A session. Attendees gained valuable knowledge and were inspired to actively participate in IEEE's professional development opportunities. The event concluded with positive feedback, highlighting its

	 PIC: EVENT POSTER	relevance and the speaker's impactful delivery. Nearly 30 students participated in this event**.**
19.	**ISTE activities**	St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **ISTE STUDENT CHAPTER** organized a technical event **"SOLUTION QUEST "**on **01/08/2024**. This exclusive event started at **1:40 PM** with all the members of our club. Abiding the famous quote **"Turning Problems into Possibilities"** the event started exploring the hidden talent of our students. The Solution Quest event is a dynamic and engaging competition hosted by the St. Joseph's ISTE Student Chapter to foster innovation and problem-solving skills among students. It is designed to challenge participants with real-world problems and encourage them to develop creative, practical solutions. The event started with coordinators presenting problem statements to participants. The participants formed diverse teams to develop innovative solutions over a set timeframe, guided by the coordinators who act as mentors. The coordinators also served as judges, evaluating the solutions based on

	 *PIC: EVENT POSTER*	creativity, feasibility, impact, and presentation. Awards were given to the top-performing teams
20.	**Club activities**	St. Joseph's College of Engineering, (Electrical & Electronics Engineering **ELECTRICAL CLUB** organized a technical event **" IDEA INNOVATOR CHALLENGE " on 31/07/2024**. This exclusive event started at **1.40 pm** with all the members of our club. The **Idea Innovator Challenge** is an exciting competition aimed at fostering creativity and innovation, encouraging participants to transform their groundbreaking ideas into tangible, actionable concepts. **This event offers a unique platform for individuals or teams to present their innovative solutions to real-world challenges, with the opportunity to receive valuable insights and feedback from industry professionals**.

	 ***PIC: EVENT POSTER***	
21.	**Club activities**	St. Joseph's College of Engineering, Electrical & Electronics Engineering **SOCIAL AWARNESS CLUB** organized a technical event **"DYNAMIC DISCLOSURE''** on 30/07/2024 for IV year students. The group discussion on the topic EV adaption in India, the adoption of electric vehicles in India is supported by a combination of government initiatives, infrastructure development, market growth, and public awareness efforts. These measures aim to address challenges and capitalize on opportunities to promote sustainable transportation and environmental benefits in the country.

	 PIC: EVENT POSTER	
22.	**Club activities** 	St. Joseph's College of Engineering, Electrical & Electronics Engineering **ROBOTICS CLUB** in association with **IEEE ROBOTICS AND AUTOMATION SOCIETY [SBC60101B]** organized a technical event **"ROBO VENTION"** on 02/08/2024. Robo Vention is a event that combines knowledge, quick thinking, and problem-solving in the realm of robotics. The event included three rounds where teams tackled challenges related to robotics. Participants gained deeper insights into robotics concepts and improved their problem-solving abilities through hands-on challenges and puzzles.The event fostered teamwork and collaboration

	PIC: EVENT POSTER	among participants, as they worked together to tackle complex tasks and develop innovative solutions.
23.	**Placement club activities** ***PIC: EVENT POSTER***	Department of EEE has conducted the SEERA training program on 7th August 2024 for Pre-final year students through Bright Byte Coders Club. The speakers of the event are also from Pre-final year students **Mr. MANOJ KUMAR V, III EEE B SEC** on the topic **JAVA Basics**, **RAGHAV VYAS, III EEE B SEC** on the topic "**Backtracking In Data Structures**", **KAVYA V, III EEE B SEC** on the topic "**Aptitude - Problems on Percentage"** & **KEERTHANA B, III EEE B SEC** on "**How to conduct Group Discussion"**. The program is organized to enrich the C programming skills, Data structure knowledge & various topics on aptitude for the students and also provides the placement drive procedures for various companies.

24.	**Placement club activities** *PIC: EVENT POSTER*	Department of EEE has conducted the SEERA training program on 14th August 2024 for Pre-final year students through Bright Byte Coders Club. The speakers of the event are also from Pre-final year students **Ms. Sangamithra, III EEE C SEC** on the topic **Quantitative Aptitude**, **Sirapani D, III EEE C SEC** on the topic **Data Structures Decoded**, **Yashwanth D**, **III EEE C SEC** on the topic **Presentation And Public Speaking Skills** & **Shakthi P, IV EEE C SEC** on the topic **Logical Reasoning**. The program is organized to enrich the C programming skills, Data structure knowledge & various topics on aptitude for the students and provides the placement drive procedures for various companies.
25.	**Placement club activities**	Department of EEE has conducted the SEERA training program for Pre-final year students through Lingual Club. The speakers of the event are also from Pre-final year students **Mr.Hassan A, III EEE A SEC** on the topic **Basics IN C++, Goutham G, III EEE A SEC** on the topic **JAVA Basics- Exploring Common Tricky Questions**, **Deepak Prabhu, III EEE A SEC** on the topic PROBLEMS ON APTITUDE & **Hemanath V, III EEE A SEC** on the topic **Object Oriented Programming in JAVA** . The program is organized to enrich the C programming skills,

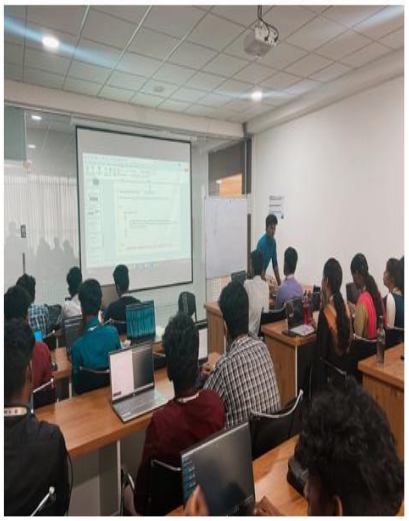
	 PIC: EVENT POSTER	Data structure knowledge & various topics on aptitude for the students and provides the placement drive procedures for various companies.
26.	**Alumni activities**	**Mock interview facilitated by SJCE-EEE Alumnus on 3rd August 2024** Engaging in a mock interview with a seasoned alumnus transformed preparation into a learning experience, offering real-world insights that are crucial for succeeding in today competitive job market. Alumni mentors gave a glimpse into the industry's expectations and this meet provided a perfect opportunity for our students to fine-tune skills and build the confidence needed to shine in the real world"	

	 PIC: EVENT POSTER	
27.	**Alumni activities**	Our department of Electrical and Electronics Engineering has organized an alumni talk on "Basics of Battery Management System" for third year students on 6th August 2024. Our alumni **Mr. JANDRO DANIEL (UG Batch : 2016- 2020) (PG Batch : 2021- 2023) Business Development Manager, Switching Battery, Chennai** briefed about evolution of battery and the basics of battery management systems. The session created an awareness about the battery management technology scope and opportunities.

	 PIC: EVENT PHOTO	
28.	**Alumni Activities** 	Our alumni **Ms. P. K. Ananya (Batch : 2019- 2023) MBA- IIM (RANCHI)** gave an Inspiration Talk for Higher Studies - "Ace the CAT: Expert Advice for Optimal Exam Preparation" on 12th August 2024 for our III rd year and IV year students.The speaker shared her insights on common pitfalls and best practices for preparation. She also addressed queries regarding preparation timelines, study materials, and the importance of mock tests.

	PIC: EVENT POSTER	
29.	**Alumni Activities** ***PIC: EVENT POSTER & PHOTO***	Our alumni **Ms. Dhivya Nandhini (Batch : 2019- 2023) Founder : Dream Education Abroad Consultancy gave a seminar on** 12th August 2024 about **"Higher studies in Europe".**She discussed about various topics like an overview of popular study destinations in Europe,Insights into specific programs and fields of study ,Information on visa requirements and work opportunities for students.

30.	**Alumni activities** ***PIC: EVENT PHOTO***	Our Alumni **Mr. Maria Arul Jeffery, (Batch : 2018- 2022), Ex-Assistant Manager, JSW Steels, PG: MBA, IBS, Hyderabad** gave a motivational talk on "**Interview preparation for your career path".** The session on "Interview Preparation for Your Career Path" successfully provided participants with the tools and insights needed to navigate the interview process confidently. The discussion covered topics like the importance of body language and first impressions. Strategies for dealing with difficult questions and unexpected scenarios.
31.	**Alumni activities**	Our Alumni **Mr. N. Mohan Kumar ,(Batch : 2019- 2023) ,CEH v12 (Practical0, CCNA, Security researcher, Secured Oracle, Lenskart, NASA** gave a session on the topic **"Step into Cybersecurity: A Career in protecting the digital world"** for all students who are interested in cybersecurity **on 14th August 2024**

	 ***PIC: EVENT POSTER & PHOTO***	
32.	**Alumni activities**	Our Alumni **Mr. N. Mohan Kumar ,(Batch : 2019- 2023) ,CEH v12 (Practical0, CCNA, Security researcher, Secured Oracle, Lenskart, NASA gave o**ne day technical workshop on "Cybersecurity"on 30th August 2024 for students who are interested in cybersecurity domain. He delivered comprehensive presentations on key topics, including: Overview of current cyber threats such as phishing, ransomware, and malware. Understanding the cybersecurity landscape, including common attack vectors and vulnerabilities. Essential tools and software for protecting personal and organizational data.	

	 PIC: EVENT POSTER	
33.	**Alumni activities**	Our distinguished alumni **Mr.Abraham Judas Cephas (Batch: 2007-2011) Senior Deputy A.G Comptroller & Auditor General of India ,Chennai** gave a motivational talk on 30th August 2024 for our students. The motivational talk by the Senior Deputy A.G Comptroller & Auditor General of India was a valuable experience for Group I exam aspirants. The insights shared during the session not only inspired the candidates but also equipped them with practical strategies to enhance their preparation. The event fostered a sense of community among the aspirants, encouraging them to support each other in their journey towards success.

	 PIC: EVENT POSTER	
34.	**Faculty Development Program**	• Dr.V.Chamundeeswari, Dr.N.Chidambararaj, Dr.M.Venmathi, Dr.P.Velmurugan, Dr.S.Sridharan, Dr.M.Anitha, Ms.R.G.Nirmala, Mr.C.Venkatesh Kumar, Mr.N.Jeyaprakash, Mr.T.Srianand Ganesh, Mr.K.Aravindhan, Mr.S.S.Harish, Mr.A.Sadeesh Kumar, Mr.S.Sivakumar, Ms.C.Ramadevi Participated in 6 days online FDP on "Latest developments in RF technologies in 5G and Beyond from 30.7.24 to 6.8.24 organised by department of ECE, Rajalakshmi Engineering College in association with IIC, REC and IEEE communication society,REC. • Dr.M.Anitha Participated in 3 days international online workshop on "Academic Writing: Ethical Issues from 17.8.24 to 19.8.24 by Institute for Statics and Analytical Research. • Mr.V.Balasubramanian Attended specified training programme titled (i)"HC 10 W/WO DT YRC 1000micro controller W/Smart Pendant". (ii) "Yaskawa Safety Principles". (iii) "Intro to Robotics" by Yaskawa Motoman Robotics. • Mr.R. Elanthirayan Participated in Professional development Programme on "Design Of Electrical & Electronic Systems For Wind & Solar " conducted by NITTTR, Chennai from 5.8.24 to 9.8.24

35.	**Faculty awards and recognitions**	**Dr.T.V.Narmadha** has reviewed 4 papers under soft computing for the journal Springer Nature. **Dr.M.Venmathi** has reviewed 2 papers for the journal Scientific Reports (Springer Nature).
36.	**Industry institute interaction** ***PIC: EVENT PHOTOS***	Our department as part of industry interaction visited • Tamil Nadu Technology Development and promotion center • Confederation of Indian Industries (CII) • Switching battery • AXIS global institute of industrial automation • Imirisoft IT solutions (p) ltd. • Priya Electricals, • VLSI academy To sign MOU, sharing technology, skill development of students through internship.
37.	PLACEMENT DETAILS FOR THE MONTH OF AUGUST 2024	**2021-2025 Batch** Total No of students placed = 18 Students Total No of Offers = 18 Offers Total No of Students (UG) = 194 Total No of Eligible Students (UG) = 160 (All Clear)

		% of students Placed (UG) = 18/194 = 9.27 % No of students having single offers = 18	

Prepared By,

Department Coordinator

Department

1.Mr.S.S.Harish

2.Mrs.C.Rama Devi

Head of the

Dr. Jayarama Pradeep

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St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. JOSEPH'S GROUP OF INSTITUTIONS

OMR, CHENNAI - 119

Day: Monday Date: 9-9-2024

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St. Joseph's College of
Engineering

OMR, Chennai – 119.

Subject: Brief report on the monthly activities undertaken by the Electronics and Instrumentation Engineering department for the August

Month year 2024.

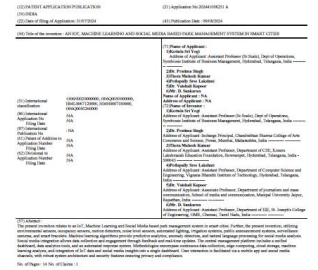
Respected sir

Referring to the subject as mentioned above, I am C.N.Gnanaprakasam the department coordinator NAAC, on the behalf of the entire department, here presenting you the briefs of activities undertaken by the department.

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

Sl. No.	Title	Detail

I	Patent	

S.No	Faculty Name	Published date	Title	Type (patent Or copyrights)	Proof
1.	Mr. D. Sankaran	09/08/2024	AN IOT, MACHINE LEARNING AND SOCIAL MEDIA BASED PARK MANAGEMENT SYSTEM IN SMART CITIES	Patent	
2.	Dr.Kotteeswaran R	09/08/2024	SECURING AND PROVIDING SAFETY IN INDUSTRIAL ENVIRONMENT AND INTEGRATING APP-EMBEDDED ROBOTS USING IO	Patent	

II	FDP	

S. No.	Faculty Name	Title	Conducted By	Date	Proof
1.	Dr. B SENTHIL KUMAR	Latest Developments in RF Technologies in 5G and Beyond	Rajalakshmi Engineering College, Chennai	31-07-2024 to 06-08-2024	
2.	Mr.D.Sankaran	Latest Developments in RF Technologies in 5G and Beyond	Rajalakshmi Engineering College, Chennai	31-07-2024 to 06-08-2024	

III	**Workshop**	

S. No.	**Faculty Name**	**Title**	**Conducted By**	**Date**	**Proof**
1.	Senthilkumar B	Quantum Information & Advance Computing - Modern Edge with Industrial Alignments	AMITY UNIVERSITY	01-08-2024 to 03-08-2024	

Prepared By,

[Dr.C.N.Gnanaprakasam]

Department Coordinator

Head of the Department

1. [Dr.S.Meena]

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

Day: Date:

To

The Principal
St. Joseph's College of Engineering
OMR, Chennai – 119.

Subject: Brief report on the monthly activities undertaken by **MBA** department for the AUGUST month 2024 year.

Referring to the subject as mentioned above, I am Dr.K.Sampath, the department coordinator IQAC, on the behalf of entire department, here presenting you the briefs of activities undertaken by the department.

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

FACULTY PUBLICATION / REVIEW:	Dr. K. Sampath has published a paper on Medical Tourism in India: Analysing Trends, Challenges and Opportunities for Healthcare Travel in African Journal of Health Sciences, ISSN*: 2663-2187, Issue 6(13) August 2024.* *https://doi.org/10.48047/AFJBS.6.13.2024.7202-7215* Dr.Angelin S Kirupa has awarded Certificate of Excellence in Reviewing in recognition of an outstanding contribution to the quality of Journal of Scientific Research and Reports. Dr.K.Sampath has published a patent titled " EVALUATING THE EFFECTIVENESS OF CONSUMER EDUCATION AND AWARENESS IN
CONFERENCE / SEMINAR PRESENTATION:	Dr.Angelin S Kirupa has presented a paper titled "Consumer privacy in online marketing and role of marketing manager in Artificial Intelligence" in the 2nd International Conference on Technological Advancements in Materials, Design, Manufacturing and energy sectors held during 21st and 22nd at St.Joseph's College of Engineering, Chennai. Dr.K.Sampath has presented a paper titled "Boosting team productivity through genetic Algorithms unveiling synergetic Patterns" in the 2nd International Conference on Intelligent Cyber Physical systems and Internet of things" held during 28-30, August, 2024 at JCT College of Engineering
FDP / STTP ATTENDED:	Dr.R. Bharath Vajan has attended a 7 Day Online Professional Development Program on "Research Craftsmanship" from 16.08.24 to 23.08.24.
INDUSRIAL VISITS: 	The department of Management studies organized a one-day Industrial Visit to "Lucas TVS LTD Pondicherry" on 10.08.2024 for the IV & V year MBA-INTEGRATED students. This company is a prominent manufacturer of automotive electrical equipments and components. They are the raw material producer for leading companies like Maruti Suzuki, Nissan, Harley Davidson, BMW, Yamaha, Hero Corp, Bajaj etc.,

GUEST LECTURE: 	Organised a Guest Lecture on "How to choose and validate your Startup ideas" on 29.08.2024 by Mr.Sriram Selvan, Being Scenius Podcast.

Prepared By,

Dr. K.Sampath

Department Coordinator **Head of the Department**

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St. JOSEPH'S GROUP OF INSTITUTIONS

OMR, CHENNAI - 119

Day: Monday
02.09.2024

Date:

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St. Joseph's College of
Engineering
OMR, Chennai – 119

Subject: Brief report on the monthly activities undertaken by SCIENCE department for the AUGUST month 2024 year.

Respected sir

Referring to the subject as mentioned above, I am N.R.RAJAGOPALAN, the department coordinator of NAAC, on the behalf of entire department, here presenting you the briefs of activities undertaken by the department.

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

Sl. No.	Events	Remarks
1	**Collabarative Quality initiatives with other institutions**	-
2	**Industrial Visits,Inplant Training,Internships**	-
3	**Guest Lecture**	-
4	**FDP/Workshop/Conference**	**Guest speaker:** Dr. K. Jayamoorthy has delivered an invited talk in the "International Conference on "AI meets Physics: Current Trends and Future Prospects" conducted by "Chevalier T. Thomas Elizabeth College for Women, Perambur, Chennai" held on 29.08.24 **Participated:** 1. 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. S. Rama, Dr. G. Murugan, Dr. V. Swarnalatha, Dr. N.R. Rajagopalan, Dr. J. Sharmila, Ms. S. Savitha, Dr. K. Jayamoorthy attended two weeks online Faculty Development Program on "Frontiers in Materials Research, Innovations, and Entrepreneurship (FMRIE'24)" organized by "Sri Sai Ram Engineering College, Chennai 600044" conducted between 25.07.24 and 08.08.24. 2. Dr. J. Sharmila attended an International webinar on "Latest Research on Semiconductors Communications and Sustainable Disaster Management" organized by "EDUCARE, TAIWAN" held on 16.08.24. 3. Dr. G. Sasikumar attended 5 days online Faculty Development Program on "Renewable and

		Non-Renewable Energy Sources & their Impact on Current Energy Scenario" organized by "Nehru Institute of Technology" conducted between 27.08.24 and 31.08.24 .
5	**Symposium**	-
6	**STTP**	1. Dr. S. Kiruba, Dr. N. Punitha, Dr. A. Arulmozhi, Dr. A. Mahalakshmi, Mr. S. Kaleel Mohamed Ibrahim, Dr. S. Rama, Dr. N.R. Rajagopalan, Dr. J. Sharmila, Ms. S. Savitha, attended one week online STTP on "Transformative Education : Intergrating AL tools with outcome based Learning" organized by "Radhakrishna Inst. of Tech & Engg , Odisha" conducted between 05.08.24 and 11.08.24.
7	**Value added Courses/Courses other than VAC**	-
8	**Competitions attended by students**	-
9	**Awards/Prize won by students / Staff**	-
10	**Industrial Projects done by students**	-
11	**Publications(only published) details**	**Journals:** 1. Dr. P. Saravanan Published an article titled "Growth, Characterizations of Oxalic Acid Di-Hydrate Crystals of Pure, Milled, Shocked Impact of 50 Scaling for Electronic, Photonic, Display and Sensor Usefulness by Theory and Practice, ECS Journal of Solid State Science and Technology, August 2024 [DOI: 10.1149/2162-8777/ad71f0] 2. Dr. N.R. Rajagopalan published an article titled "Evaluation of the optical, photoluminescence, and thermal characteristics of Barium thiourea chloride (BTCL), a metal–organic crystal for photonic applications" in the "Journal of Nonlinear Optical Physics & Materials" (August 2024) { doi: 10.1142/S021886352450019X} 3. Dr. V. Swarnalatha published an article titled "Synthesis, Studies of Shocked Pulse of 50 Scale on 100 Gy Irradiated Zinc Acetate Crystals for Photonic, NLO, Phase-Matching and Electronic Utilities" in the "ECS Journal of Solid State Science and Technology" 13 (2024) 084005. { doi: 10.1149/2162-8777/ad6f42} **Books:** 1. Dr. N. Punitha published a book chapter titled "Exploring Advanced Materials for Engineering Applications " with "ISBN: 978-81-974501-8-1".

		Reviewer: 1. Dr. P. saravanan Acted as reviewer for the Environmental Science and Pollution Reseach- Elsevier-Auguest 2024 2. Dr. N.R. Rajagopalan acted as reviewer for the Archives of Biochemistry and Biophysics- Elsevier- August 2024. 3. Dr. K. Jayamoorthy acted as reviewer for the following journals. Journal of Molecular Structure Materials Today Communications Materials Science in Semiconductor Processing Chemical Physics Impact Mini-Reviews in Organic Chemistry
12	**Funded Projects**	--
13	**Other activities(if any)**	-

Prepared By,

Department Coordinator Head of the Department

Day: Monday **Date: 26/08/2024**

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St. Joseph's College of

Engineering

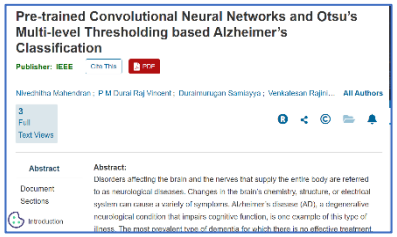
OMR, Chennai – 119.

Subject: Brief report on the monthly activities undertaken by **Information Technology** department for the **August 2024**.

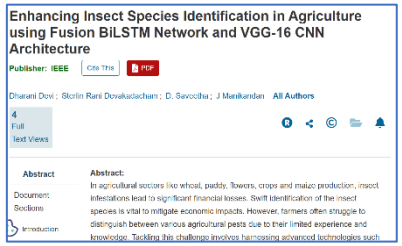
Respected sir

Referring to the subject as mentioned above, I am Dr.S.Sumathi the department coordinator NAAC, on the behalf of entire department, here presenting you the briefs of activities undertaken by the department.

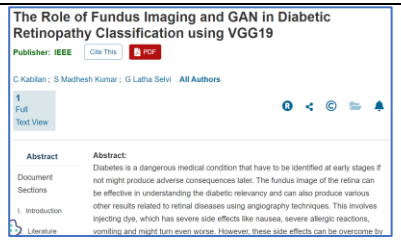
Description about the various activities undertake and corresponding remark on its status of execution

Sl. No.	Photographs Captured During Event/Screenshot	Corresponding remarks in regarding the status of activity execution
1.	 **Co-Author** **Dr.Duraimurugan S** Published a paper in Scopus indexed Conference	**Staff Paper Publication** N. Mahendran, P. M. Durai Raj Vincent, **S. Duraimurugan** and V. Rajinikanth, "Pre-trained Convolutional Neural Networks and Otsu's Multi-level Thresholding based Alzheimer's Classification," 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), Chennai, India, 2024, pp. 1-7, doi: 10.1109/ACCAI61061.2024.10601780, E ISBN:979-8-3503-8944-9, Print ISBN:979-8-3503-8943-2, Date Added to IEEE Xplore: 25 July 2024. **(Indexed in Scopus)** **Abstract:** In the modern world, due to changing lifestyles, more people are infected by deadly diseases, especially heart disorders. An early prognosis is the only possible way of increasing survival rate. One of the key elements of this context is the healthcare digitalization that is carried out through Internet of Things (IoTs) and cloud computing. However, main issue in cloud with IoT is false diagnosis, which leads to cause a major impact on patient's life. Moreover, data communication through cloud servers can be compromised by attackers due to security issues. A novel diagnosis approach 'Hybrid Binary Particle Firefly Optimized Extreme Learning Machine classifier (HybBPF-ELM)' to predict HD is designed, that recognize the subject with HD abnormality from the normal ones. The prediction accuracy and time efficiency of training process are improved by the adoption of a Hybrid Binary Particle Firefly Optimizer (HBPFO) through fine-tuning weight and bias of Extreme Learning Machine (ELM) classifier.

2.	 **Co-Author** **Mr. J. Manikandan** Published a paper in Scopus indexed Conference	S. Anandhi, S. R. Devakadacham, **J. Manikandan** and M. Shanthalakshmi, "Enhancing Lung Disease Diagnosis through Meta Learning: A Framework Utilizing Few-Shot Learning Techniques," 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), Chennai, India, 2024, pp. 1-6, doi: 10.1109/ACCAI61061.2024.10602349, E ISBN:979-8-3503-8944-9, Print ISBN:979-8-3503-8943-2, Date Added to IEEE Xplore: 25 July 2024. **(Indexed in Scopus)** **Abstract:** Ailments of the lungs stand out as the most common medical conditions that are encountered in the healthcare industry. Manual assessment, which frequently involves the use of chest X-ray images and visual inspection, is something that is commonly used in traditional diagnostic approaches. This method can be time-consuming and prone to errors. Deep learning techniques, despite their potency, require a significant quantity of data in order to achieve optimal performance. After the nodules have been segmented, they are subjected to feature extraction by transfer learning. This is accomplished by employing the CheXNet model that has been pre-trained on the Chest Xray14 dataset, which contains 14 chest abnormalities. After the features have been extracted, they are transferred into a classifier, which is then used to distinguish between a variety of abnormalities and normal circumstances. The new component of this research resides in the implementation of few-shot learning techniques within the classifier, allowing efficient image categorization even with insufficient data. A promising strategy to intensifying the precision and efficiency of lung disease diagnosis in the healthcare sector is presented by the technique that has been developed.

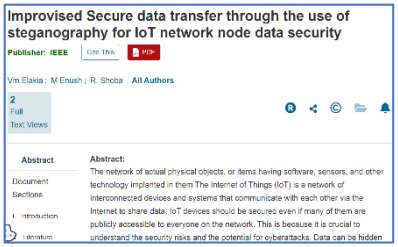
3.	 **Co-Author** **Mr. J. Manikandan** Published a paper in Scopus indexed Conference	D. Devi, S. R. Devakadacham, D. Saveetha and **J. Manikandan**, "Enhancing Insect Species Identification in Agriculture using Fusion BiLSTM Network and VGG-16 CNN Architecture," 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), Chennai, India, 2024, pp. 1-6, doi: 10.1109/ACCAI61061.2024.10602372, E ISBN:979-8-3503-8944-9, Print ISBN:979-8-3503-8943-2, Date Added to IEEE Xplore: 25 July 2024. **(Indexed in Scopus)** **Abstract:** In agricultural sectors like wheat, paddy, flowers, crops and maize production, insect infestations lead to significant financial losses. Swift identification of the insect species is vital to mitigate economic impacts. However, farmers often struggle to distinguish between various agricultural pests due to their limited experience and knowledge. Tackling this challenge involves harnessing advanced technologies such as the VGG-16 convolutional neural network (CNN) architecture, alongside other computational methods. VGG-16, renowned for its effectiveness in image classification tasks, can be employed to automatically extract features from the data. In our study, we propose integrating VGG-16 as part of a fusion BiLSTM network, which incorporates bidirectional long short-term memory (BiLSTM) layers, considering temporal information. This approach offers a promising solution to insect species identification in agricultural settings.

4.	 **S. Vedapuri, S. Evangeline and C. Heltin Genitha** Published a paper in Scopus indexed Conference	**<u>Student – Staff Conference Publication</u>** **S. Vedapuri, S. Evangeline and C. Heltin Genitha**, "Corporate Tax Compliance and Fraud Prevention System by Principal Component Analysis and Auto-Encoder," 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), Chennai, India, 2024, pp. 1-9, EISBN: 979-8-3503-8944-9, Print ISBN:979-8-3503-8943-2, Date Added to IEEE Xplore: 25 July 2024, doi: 10.1109/ACCAI61061.2024.10601922. **(Indexed in Scopus)** **Abstract:** Almost all tax authorities prioritize the detection of tax fraud as a means of optimizing their earnings and upholding strict compliance standards. When devising standard tax models and their outcomes, it is imperative for every nation to take into account the prevalence of tax evasion and avoidance, as they can significantly skew tax arrangements. Early models in this field focused on tax evasion, as it was perceived as a challenge to the state's ability to enforce the law. This study expands on earlier research on tax fraud detection, which used a variety of machine learning models to look at all tax kinds. This model finds a number of variables that are important for identifying income tax fraud in both small and corporate enterprises, such as the length of the firm, its size, and whether it works locally or internationally. It is the first to use Principal Component Analysis and Auto-Encoder to detect corporate tax fraud. The findings of this work will assist scrutinizers in comprehending the elements that lead to corporate tax fraud, hence decreasing the duration and expenses of audits and facilitating the recovery of lost revenue from corporate tax fraud.
5.		**C. Kabilan, S. Madhesh Kumar and G. Latha Selvi**, "The Role of Fundus Imaging and GAN in Diabetic Retinopathy Classification using VGG19," 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), Chennai, India, 2024, pp. 1-5, doi: 10.1109/ACCAI61061.2024.10601890, E ISBN:979-8-3503-8944-9, Print ISBN:979-8-3503-8943-2, Date Added to IEEE Xplore: 25 July 2024 **(Indexed in Scopus)**



C. Kabilan, S. Madhesh Kumar and G. Latha Selvi
Published a paper in Scopus indexed Conference

Abstract: Diabetes is a dangerous medical condition that have to be identified at early stages if not might produce adverse consequences later. The fundus image of the retina can be effective in understanding the diabetic relevancy and can also produce various other results related to retinal diseases using angiography techniques. To solve this issue, a combination of GAN or Generative Adversarial Networks with VGG can be effective in classifying whether the retina scan input image is affected by diabetes or not. The involvement of GAN with a classification algorithm is entertained due to the imbalance of medical records and the complexity involved with extensive training with CNN, which produces pessimistic results due to the lower number of records. GANs offer a solution to the challenge of sparse data in generating synthetic retinal images. Conversely, VGG stands out as a deep convolutional neural network ideal for image classification tasks. By combining these two techniques, it is possible to improve the accuracy of diabetic retinopathy detection. This approach has the potential to make diabetic retinopathy screening more accessible and affordable, especially in low-resource settings where traditional methods may not be feasible.

6.	 **V. Elakia, M. Enush and R. Shoba** Published a paper in Scopus indexed Conference	**V. Elakia, M. Enush and R. Shoba**, "Improvised Secure data transfer through the use of steganography for IoT network node data security," 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), Chennai, India, 2024, pp. 1-7, doi: 10.1109/ACCAI61061.2024.10602320, E ISBN:979-8-3503-8944-9, Print ISBN:979-8-3503-8943-2, Date Added to IEEE Xplore: 25 July 2024 **(Indexed in Scopus)** **Abstract:** The network of actual physical objects, or items having software, sensors, and other technology implanted in them The Internet of Things (IoT) is a network of interconnected devices and systems that communicate with each other via the Internet to share data. IoT devices should be secured even if many of them are publicly accessible to everyone on the network. The result is a picture file that seems identical to the original but includes typical, unencrypted “noise” patterns data because the encrypted data was applied to this redundant data discretely. The goal of this project is to use picture data hiding to encrypt data from IoT networks by concealing the message within an image file. By using convolutional neural networks, the payload which can be conveyed via a visual will be significantly expanded in conjunction with the conventional picture data hiding approach. To get the maximum payload, various convolutional settings will be examined. The data will be encrypted and decrypted using the recently created deep learning algorithm. In order to improve the payloads of information to be encrypted and securely decrypted for displaying the original message, convolutional networks will be trained in this study.

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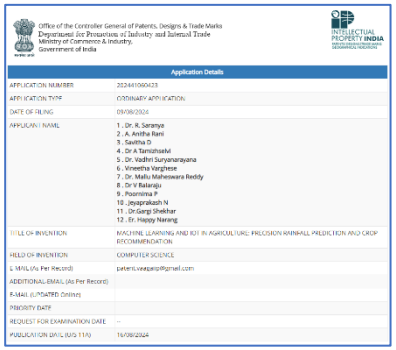
Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

INTELLECTUAL PROPERTY INDIA

Application Details

APPLICATION NUMBER	202441060423
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/08/2024
APPLICANT NAME	1 . Dr. R. Saranya 2 . A. Anitha Rani 3 . Savitha D 4 . Dr A Tamizhselvi 5 . Dr. Vadhri Suryanarayana 6 . Vineetha Varghese 7 . Dr. Mallu Maheswara Reddy 8 . Dr V Balaraju 9 . Poornima P 10 . Jeyaprakash N 11 . Dr.Gargi Shekhar 12 . Er. Happy Narang
TITLE OF INVENTION	MACHINE LEARNING AND IOT IN AGRICULTURE: PRECISION RAINFALL PREDICTION AND CROP RECOMMENDATION
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	patent.vaagarp@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	16/08/2024

Dr A Tamizhselvi

Published an India Patent
</td>
<td>
<u>Patent Published</u>

Title of the invention: MACHINE LEARNING AND IOT IN AGRICULTURE: PRECISION RAINFALL PREDICTION AND CROP RECOMMENDATION
Name of Inventor:
1. Dr. R. Saranya
2. A. Anitha Rani
3. Savitha D
4. Dr A Tamizhselvi
5. Dr. Vadhri Suryanarayana
6. Vineetha Varghese
7. Dr. Mallu Maheswara Reddy
8. Dr V Balaraju
9. Poornima P
10. Jeyaprakash N
11. Dr.Gargi Shekhar
12. Er. Happy Narang
Patent Application Number: 202441060423
Date of filing of Application: 09/08/2024
Publication Date: 16/08/2024
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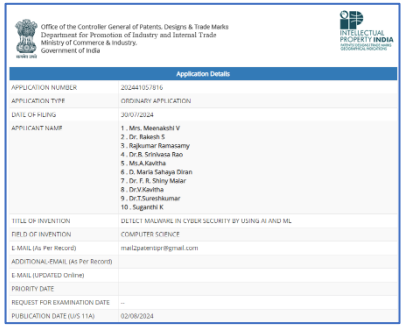
<td>8.</td>
<td>

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

INTELLECTUAL PROPERTY INDIA

Application Details

APPLICATION NUMBER	202441057816
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	30/07/2024
APPLICANT NAME	1 . Mrs. Meenakshi V 2 . Dr. Rakesh S 3 . Rajkumar Ramasamy 4 . Dr.B. Srinivasa Rao 5 . Ms.A.Kavitha 6 . D. Maria Sahaya Diran 7 . Dr. F. R. Shiny Malar 8 . Dr.V.Kavitha 9 . Dr.T.Sureshkumar 10 . Suganthi K
TITLE OF INVENTION	DETECT MALWARE IN CYBER SECURITY BY USING AI AND ML
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	mail2patentspr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	02/08/2024

Ms.A.Kavitha

Published an India Patent
</td>
<td>
Title of the invention: DETECT MALWARE IN CYBER SECURITY BY USING AI AND ML
Name of Inventor:
1. Mrs. Meenakshi V
2. Dr. Rakesh S
3. Rajkumar Ramasamy
4. Dr.B. Srinivasa Rao
5. Ms.A.Kavitha
6. D. Maria Sahaya Diran
7. Dr. F. R. Shiny Malar
8. Dr.V.Kavitha
9. Dr.T.Sureshkumar
</td>
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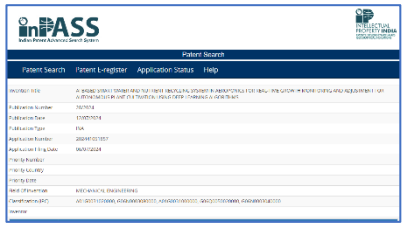
		10. Suganthi K **Patent Application Number:** 202441057816 **Date of filing of Application:** 30/05/2024 **Publication Date:** 02/08/2024
9.	 **Dr. J. Thresa Jeniffer** Published an India Patent	**Title of the invention:** AI BASED SMART WATER AND NUTRIENT RECYCLING SYSTEM IN AEROPONICS FOR REAL-TIME GROWTH MONITORING AND ADJUSTMENT FOR AUTONOMOUS PLANT CULTIVATION USING DEEP LEARNING ALGORITHMS **Name of Inventor:** 1. Dr. N.B. Mahesh Kumar 2. Rashmi T S 3. Vishal Yadav 4. Dr.M.Sakthivel Murugan 5. **J. Thresa Jeniffer** 6. Dr. Ajit M. Hebbale 7. Neelam Oberoi 8. Ms. Kajal Kansal 9. J Jayalakshmi 10. Dr M Kathirvelu **Patent Application Number:** 202441051857 **Date of filing of Application:** 06/07/2024 **Publication Date:** 12/07/2024

10

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
SCHOOL OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CERTIFICATE OF PARTICIPATION
This certificate is presented to
C. Heltin Genitha
for the active participation in the FDP: Empowering the Future: Unleashing the Potential of Data and AI Event
Organized by the Department of CSE held on/
from 5-8-2024 to 9-8-2024
Dr. T. SASIKALA
Dean- School of Computing
Dr. L. LAKSHMANAN
HoD- CSE

Sample FDP Certificate

Seminar/ FDP Attended by Faculty

S.No	Title of the topic	Name of the Staff	Conducted By	Date
1.	Empowering the Future: Unleashing the Potential of Data and AI	Dr. C. Heltin Genitha Dr. A. Tamizhselvi	Department of CS, Sathyabama University	5-8-2024 to 9-8-2024 (5 days)

Prepared By,

Department Coordinator **Head of the Department**

Dr. S.Sumathi

Ms.G.Lathaselvi

You Choose, We Do It

St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. JOSEPH'S GROUP OF INSTITUTIONS

OMR, CHENNAI - 119

Day: THURSDAY Date: 12-09-2024

To
The
Principal
St. Joseph's College of Engineering
OMR, Chennai – 119.

Subject: Brief report on the monthly activities undertaken by **MATHEMATICS & ENGLISH** department for the **AUGUST 2024** year.

Respected sir

Referring to the subject mentioned above, I am G. VENKAT NARAYANAN the department coordinator NAAC, on behalf of entire department, here presenting you the briefs of activities undertaken by the department.

Description of the various activities undertaken and corresponding remark on the status of execution

Events	Remarks
Collabarative Quality initiatives with other institutions	-
Industrial Visits, Inplant Training, Internships	-
Guest Lecture	-
FDP/Workshop/Conference	

S.No	Name of the Staff	FDP Title	Organized By	Date
1	Dr.Nanthitha	Indian English Literatute: Themes Techniques And Theories	Dr. SNS Rajalakshmi College of Arts and Science	05-08-2024 to 09-08-2024
2	Mr.S.M.Balaji	Advanced Mathematical Concepts & Their Real World Applications	Veltech Ranga Sanku Arts College	05-08-2024 to 10-08-2024
3	Ms.B.Shoba			
4	Dr. P. Priyadarshini	AI for Sustainable Development	VIIT, Pune,	05-08-2024 to 09-08-2024
5	Mr.Chellamani	Foundational Science: The cornerstones of Engineering	Sphoorthy Engineering College Hyderabad	08-08-2024 to 10-08-2024
6	Mr.K.Suresh			
7	Mr.S.Manikandaprabhu			
8	Dr.Arul perum Jothi	Cutting Edge Research and Technologies in signal processing using MATLAB	Department of ECE, MLR Institute Of Technology	12-08-2024 to 17-08-2024
9	Dr.N.Jose Parvin Praveena			
10	Dr.Nancy Delaila			
11	Dr.Arul perum Jothi	Exploring New Horizons in Mathematical Research	Department of Mathematics, V.O.Chidambaram College,Thoothukudi	19-08-2024 to 24-08-2024
12	Dr.G.Meena Devi			
13	Dr.G.Venkat Narayanan			
14	Dr.Jayakumar			
15	Dr.N.Jose Parvin Praveena			
16	Dr.Nancy Delaila			
17	Dr.P.Agilan			
18	Dr.P.Chellamani			
19	Dr.V.Vallinayagam			
20	Mr.S.M.Balaji			
21	Mr.S.Manikandaprabhu			
22	Dr.Nancy Delaila	Advanced Informative and Emerging Trends in Teaching and Learning Pedagogy	Institute of Marketing and Management, Delhi, School Of Business Administration, Bhagwan Parshuram Institute Of Technology, New Delhi, Research Foundation of India &	24-08-2024 to 30-08-2024
23	Dr.P.Agilan			
24	Dr.Arulperumjothi			
25	Dr.N.Jose Parvin Praveena			

				RFI-CARE	
	26	Dr.V.Vallinayagam	Mathematical Methods and its Applications	Kongunadu College of Engineering and Technology (Autonomous), Trichy, Tamilnadu	28-08-2024 to 03-09-2024
	-				
	-				
	Dr. P. Agilan delivered a guest lecture on "Advanced Queueing networks and its applications" at SIMATS on August 1, 2024				
Symposium	-				
Awards/Prize won by staff	Dr.P. Agilan nominated as Editorial Member of GSP Science and Engineering Publishing for the period 06-08-2024 to 06-08-2026				
Awards/Prize won by students					
Industial Projects done by students					
Publications(only published) details	1. R. Umadevi ,**D. Arivukkodi**, Hadil Alhazmi,Ilyas Khan, Abdoalrahman S.A. Omer, Heat transfer in a reversible esterification process of hydromagnetic Casson fluid with Arrhenius activation energy, Case Studies in Thermal Engineering, Vol 60, Page”1—17, August 2024 (SCIE) 2. Praveen Kumar Misra, **G. Meena Devi**,Umesh Prasad, Soumitro Chakravarty, R. Raffik, Bhasker Pant, Machine				

	learning for autonomous vehicles, AIP Conference, Vol 2937, No. 020031(2024),Page: 0200311-0200318, August 2024, Scopus 3. Praveen Kumar Misra, **G. Meena Devi,** Yoni Magali Maita Cruz, Juan Carlos Cotrina-Aliaga, Pratik Chatterjee, Durgaprasad Gangodkar, Breast cancer detection based on PCA feature selection process using an ensemble learning algorithm, AIP Conference, Vol 2937, No. 020024 (2024),Page: 0200241 - 0200248,August 2024, Scopus 4. Ganesh Purushothaman, Kannan Suresh, Ethiraju Thandapani,Ercan Tunç, Second-Order Noncanonical Delay Differential Equations with Sublinear and Superlinear Terms: New Oscillation Criteria via Canonical Transform and Arithmetic–Geometric Inequality, Qualitative Theory of Dynamical Systems (2024) Vol.23,No.1 (Supplementary), Page 1—15, August 2024, SCIE
Funded Projects	-
Other activities	

Prepared By,

Department Coordinator

Head of the Department

Date:

T
o
The
Prin
cipal
St. Joseph's College of
Engineering
OMR, Chennai – 119.

Subject: Brief report on the monthly activities undertaken by **Department of Mechanical Engineering** for the month of **August 2024.**

Respected sir
Referring to the subject as mentioned above, I, Mr.M.Ganesh, the department coordinator NAAC, hereby submit the brief report of various activities of the department.

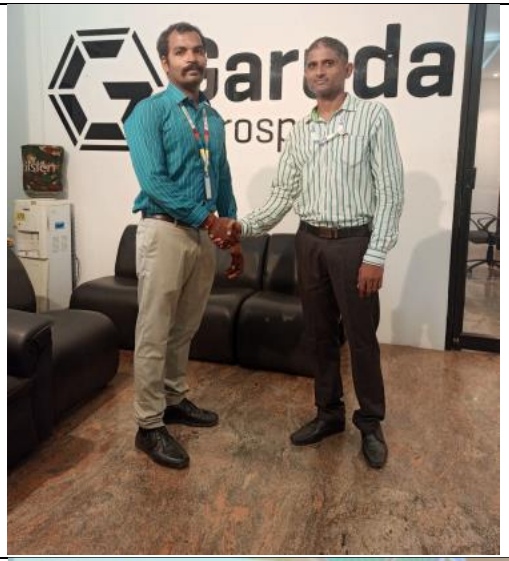
Description about the various activities undertaken and its corresponding remarks.

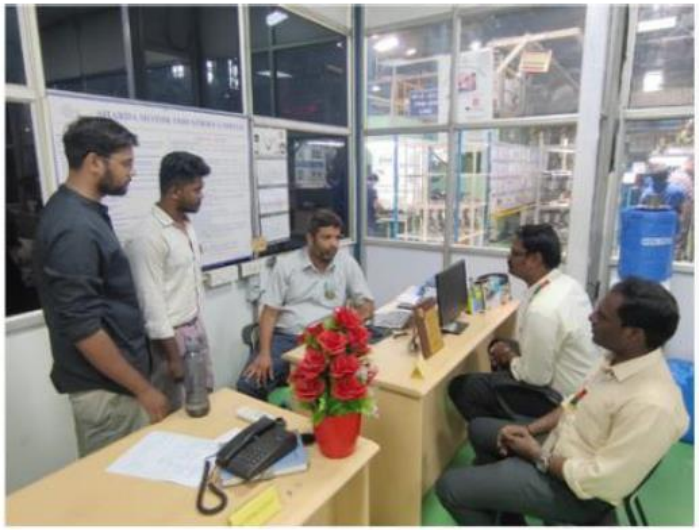
Sl No	Name of the Activity	Remarks
		Department of Mechanical Engineering organized 2 nd International Conference Hybrid Mode on "**Technological Advancements in Materials, Design, Manufacturing and Energy Sectors (ICTAMDMES 2024)** on 21 st and 22 nd August 2024 **Mr V Balakrishnan** Advisor Wheels India Limited, TVS Group of

		Companies, Chennai was the Chief Guest and inaugurated the Conference. **Dr.Vaddi Seshagiri Rao**, Principal, St Joseph's College of Engineering presides the function, welcomed and felicitated the Chief Guest **Dr N Arunkumar** Dean Industrial Collaboration IQAC introduced the Chief Guest to the participants. **Dr G L Samuel**, Professor, Manufacturing Engineering Section, Department of Mechanical Engineering IIT Madras **Dr M Venkata Ramanan** Professor Director Institute for Energy Studies, College of Engineering Guindy Anna University and **Dr G Kumaresan** Professor, Institute for Energy Studies College of Engineering Guindy Anna University had delivered key note address in the two days of conference More than 100 research articles have been received and the participants Have presented their research findings

		On 5 th August 2024 the Department of Mechanical Engineering of both the institution hosted guest lecture by an industrial expert on the topic "Sustainable development through innovation approach Iron ore extraction from grinding waste" and the guest speaker was **Mr I A Leo Bernard**, Manager Plant Engineering, Ashok Leyland, Chennai The guest lecture focused on sustainable development through innovative approaches, specifically highlighting the extraction of iron ore from grinding waste

	       	On 16 th August 2024 Department of Mechanical Engineering from St Joseph's College of Engineering organized a Guest lecture for third and Fourth year Students on the topic "**Strategies for writing a research** **article from Projects**" by **Dr G Kumaresan** Professor Institute for Energy Studies, CEG, Anna university, Guindy Additional Director CFR, Guindy was the eminent speaker to the session he gave a clear insight on how to approach a literature review and write a article

		Mr D Sakthivel Assistant Professor Department of Mechanical Engineering visited Garuda Aerospace Pvt Ltd and had interaction with Mr Maruti Prasad, CSR Lead, Discussion was made regarding Industry Interaction Activity on 10 th August 2024
		Dr R Selvam Dr K M Kumar, Associate Professors from Department of Mechanical Engineering have visited Grundfos Pumps India Pvt Ltd Thuraippakam on 14 th August 2024 had a discussion with Hr Managers for Industrial Visit Intership and Placement

		Dr N E Arunkumar Associate Professor Mr G Kasirajan Assistant Professor from Department of Mechanical Engineering have visited SHARDA Motors Industries Limited SIPCOT Industrial Park, Irrungattukottai Sriperumbudur on 16 th August 2024 and interacted with Mr J Saravanan Sr Manager HR, Mr S Prabhu Manager Production Mr P Babu Deputy Manager Production, as a part of Industry Institute Interaction cell (Discussion was made for Student Internship, Industrial Visit, Placement and Industry based Curriculum
		On 6th August 2024 52 final year C section students visited Thaai Casting Industry along with 2 faculty members From that visit the students had a clear vision on casting process. On 6th August 2024 54 final year B section students visited Cori Engineering Pvt Ltd Industry along with 2 faculty members From that visit the students had a clear vision on pressure vessel manufacturing

		process using casting and machining On 16th August 2024 54 final year A section students visited RK Heavy Engineering Pvt Ltd Industry along with 2 faculty members From that visit the students had a clear vision on heavy machinery manufacturing process using CNC machines and welding. On 13th August 2024 47 third year B section students visited IGP Engineers India Pvt Ltd Industry along with 2 faculty members From that visit the students had a clear vision on Metal Gasket Manufacturing and Quality tools for validation On 14th August 2024 47 third year C section students visited Grundfos Pumps India Pvt Ltd Industry along with 2 faculty members From that visit the students had a clear vision on pump manufacturing process On 16th August 2024 45 third year A section students visited RK

		Heavy Engineering Pvt Ltd Industry along with 2 faculty members From that visit the students had a clear vision on heavy machinery manufacturing process using CNC machines and welding
		On 7 th August 2024 the Department of Mechanical Engineering hosted distinguished alumni talk on the topic Blockchain Industry 4 0 """and the guest speaker was Mr Vidyashankar Ramalingam He graduated from our college in the year 2010 and gave us insightful importance on how blockchain can be used to increase the security and transparency around the sharing of customer data, either between a customer and a company or between two companies And also blockchain can also be used to reduce fraud and other trust related issues in digital ad buying He accentuated that Blockchain can also be called as a distributed ledger technology

Prepared By,

Department Coordinator **Head of the Department**