



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



NOVEMBER 2024

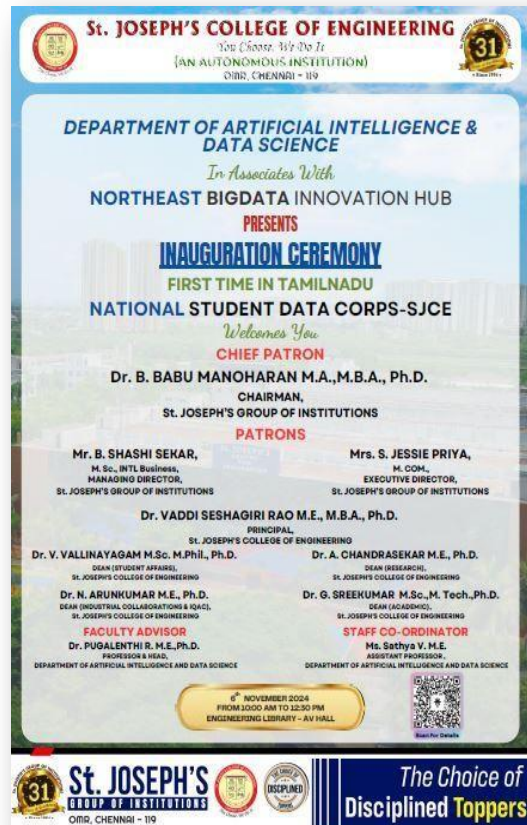
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

S.No.	Title of the Events and Photographs	Details of the Event
1.	FDP/WORKSHOP/CONFERENCE/HACKATHON	<p>First International Conference</p> <p><i>The Department of Artificial Intelligence and Data Science has successfully organized its First International Conference on “Technology and Innovation - 2024” on 28th November 2024.</i></p>



National Students Data Corps (NSDC) Chapter

*On November 6, 2024,
Department of Artificial
Intelligence and Data Science has
successfully, inaugurated its
**National Students Data Corps
(NSDC) chapter** at the Library*



*AV Hall, St. Joseph's College of Engineering (SJCE). This initiative aims to empower students with Data Science skills and foster collaborative learning. Key speakers included **Data Scientist Subramani Arumugam** and **Mohammad Azarudeen Z Microsoft MVP AI**.*

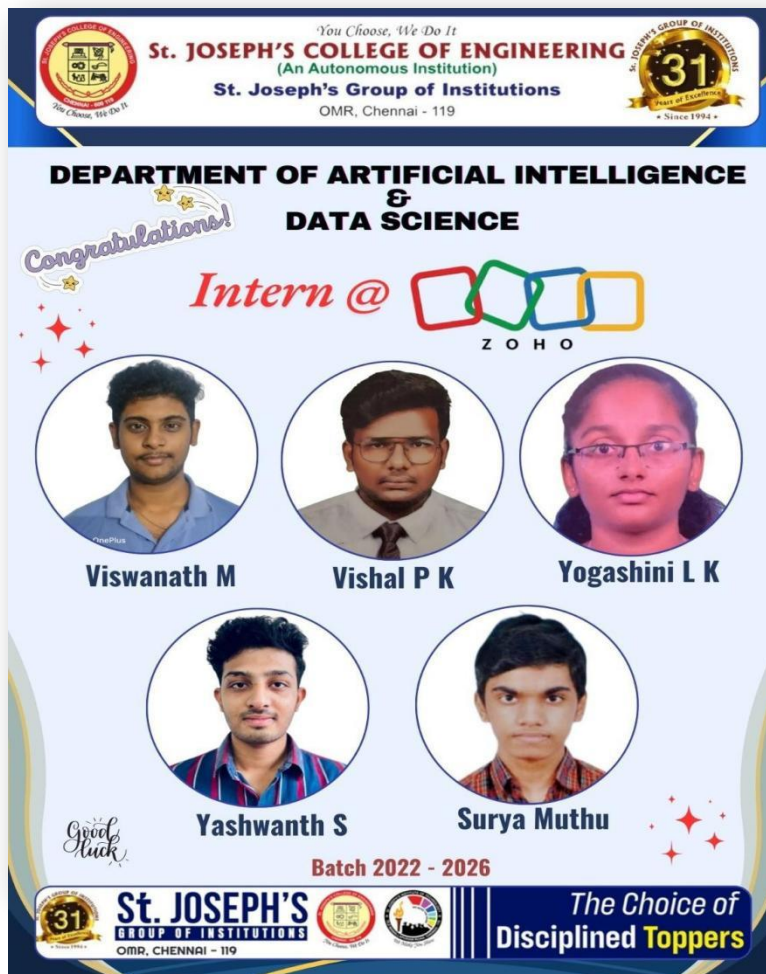
**COMPETITIONS ATTENDED BY STUDENTS
/STUDENTS NPTEL ONLINE CERTIFICATION**

2.



*Students and Staffs from the Department of Artificial Intelligence and Data Science have successfully completed their NPTEL Courses (From Four Weeks to Twelve Weeks) with **flying Colors!!!***

STUDENT ACHIEVEMENTS/AWARDS/PRIZE WON BY STUDENTS



Third year Students MrVishwanath M, Mr Vishal P K , MrYashwanth S, Mr Surya Muthu and MsYogashini L K from the Department of Artificial Intelligence and Data Science have secured Internship @ ZOHO.

4.	INDUSTRIAL PROJECTS DONE BY STUDENTS/ / INTERNSHIP WITH STIPEND	<i>Final year Student MsDiviya Sri S from the Department of Artificial Intelligence and Data Science has been selected to undertake Project Work at ISRO</i>



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**DEPARTMENT OF ARTIFICIAL INTELLIGENCE
&
DATA SCIENCE**

❖❖❖ *Congratulations* ❖❖❖

**to our student who has been
selected to undertake
project work @**



Best Wishes

Diviya Sri S

Batch : 2021 - 2025

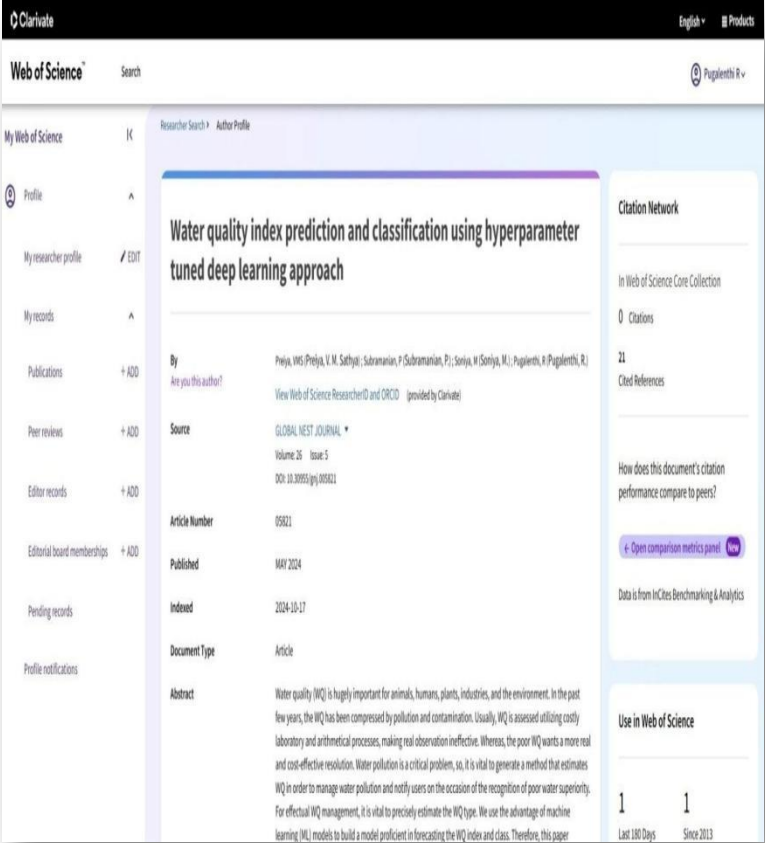



**St. JOSEPH'S
GROUP OF INSTITUTIONS**

OMR, CHENNAI - 119



The Choice of
Disciplined Toppers

5.	PUBLICATIONS(ONLY PUBLISHED) DETAILS	
6.	<div><p>/FUNDED PROJECTS</p></div>	<p><i>Dr. R Pugalenthil, Head and Professor from the Department of Artificial Intelligence and Data Science has successfully published a paper titled “Water Quality Index prediction and Classification using hyper parameter tuned deep Learning Approach” in “GLOBAL NEST JOURNAL” and indexed in WoS.</i></p>

		<p>Dr. R Pugalenth, Head and Professor from the Department of Artificial Intelligence and Data Science has successfully published a paper titled “An efficient model of enhanced optimization and Dilated-GRU based secured multi- access edge computing with Blockchain for VANET Sector” in Q1 Journal “Expert Systems with Applications” and indexed in WoS.</p>
7.	<p>STAFF CONFERENCE PRESENTATION /PATENT PUBLISHED/STAFF NPTEL ONLINE CERTIFICATION/STAFF ACHIEVEMENTS</p>  <p>The image shows an NPTEL Online Certification certificate. At the top left is the NPTEL logo, and at the top right is the Skill India logo. The text reads: 'NPTEL ONLINE CERTIFICATION (Funded by the MoE, Govt. of India)'. Below this, it says 'This certificate is awarded to DURAIRAJI V for successfully completing the course Deep Learning with a consolidated score of 55 %'. A table shows 'Online Assignments 22.6/25' and 'Proctored Exam 32.57/75'. It also states 'Total number of candidates certified in this course: 2762'. The certificate is signed by Prof. Andrew Thangaraj (Chair, Centre for Outreach and Digital Education, IITM) and Prof. Vignesh Muthuvijayan (NPTEL Coordinator, IIT Madras) for the period Jul-Oct 2024 (12 week course). The bottom of the certificate features the IIT Madras logo, the Swayam logo, the roll number NPTEL24CS114S85250157B, a QR code to verify the certificate, and the number of credits recommended (3 or 4).</p>	




Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to

SENTHIL KUMAR D

for successfully completing the course

Introduction to Industry 4.0 and Industrial

Internet of Things

with a consolidated score of **82** %

Online Assignments	25/25	Proctored Exam	57/75
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Total number of candidates certified in this course: 15725

Jul-Oct 2024

(12 week course)







Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS95S452506891 To verify the certificate  No. of credits recommended: 3 or 4

*Students and Staffs from the Department of Artificial Intelligence and Data Science have successfully completed their NPTEL Courses (From Four Weeks to Twelve Weeks) with **flying Colors!!!***



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

KUMARI DEEPIKA P

for successfully completing the course

**Machine Learning and Deep Learning - Fundamentals
and Applications**

with a consolidated score of **51** %

Online Assignments	19.75/25	Proctored Exam	31.5/75
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Total number of candidates certified in this course: 1767

Jul-Oct 2024

(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL24EE146S1052505094

To verify the certificate



No. of credits recommended: 3 or 4




Mrs. KumariDeepika P,
Assistant Professor from the
Department of Artificial
Intelligence and Data Science
has successfully published a
patent on title “Adaptive Airbag
Automation for Enhanced
Worker Safety using Machine
Learning”


Mrs. Nisha A S, Assistant Professor from the Department of Artificial Intelligence and Data Science has been invited as the Resource Person for the National Education Day Celebration 2024, organized by Institution Innovation Council of Arunachala College of Engineering for Women, Kanyakumari.

Application Details	
APPLICATION NUMBER	202441089475
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	19/11/2024
APPLICANT NAME	1 . MANIKANDAN R 2 . MD.AYNUL BARI 3 . Dr.ZULFIQAR ULLAH SIDDIQUI 4 . PUNITA BARPUJARI DEORI 5 . P.KUMARI DEEPIKA 6 . BRAJESH KUMAR SINGH
TITLE OF INVENTION	ADAPTIVE AIRBAG AUTOMATION FOR ENHANCED WORKER SAFETY USING MACHINE LEARNING
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	29/11/2024

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	MoU with IGDC 2024	<p>Date: 13-11-24 to 15-11-24</p> <p>Venue: Hyderabad</p> <p>Nature of Event: MOU</p> <p>Participants: CSE STAFF</p> <p>Organized by: Game Developer association of India</p> <p>Objective:</p> <ul style="list-style-type: none"> • To defines the roles, responsibilities, and contributions of each party involved. • To Sets out the shared goals or objectives of the partnership or collaboration, providing a clear direction for the parties. • To Defines the terms, procedures, and guidelines for how the parties will work together, including timelines, resources, and specific actions. <p>Outcome:</p> <ul style="list-style-type: none"> • It establishes a structured approach for how the parties will work together, including timelines, resources, and specific actions. • An MOU can build trust and reinforce a positive relationship between parties, setting the foundation for further cooperation. • The MOU often serves as a stepping stone toward more formal contracts or agreements, outlining the basic terms for future negotiation.
		


DEPARTMENT OF MECHANICAL ENGINEERING

SI No	Name of the Activity	Remarks
1		<p>The Department of Mechanical Engineering inaugurated the Student Chapter of The Institution of Engineers India, under the Kancheepuram Local Centre (Chapter Code: 60119/SJCE/MC), at our campus on 8th November 2024. A total of 57 students from the second and third years of the Mechanical Engineering program are registered as members of this Chapter. Chief Guest Dr. S. Karthikeyan, Ph.D., FIE, and Guest Speaker Mr. Venkatesh Babu C., Managing Director of RK Invent Weld Automation Pvt Ltd, inaugurated the Students Chapter and delivered an inaugural address, inspiring students to engage in the activities organized under the chapter. This event received assistance from the esteemed management of St. Joseph's College of Engineering. This ceremony was held in the presence of our esteemed Principal Dr. Vaddi Seshagiri Rao, M.E., Ph.D., FIE, Dr. N. Arunkumar, non-teaching faculty members. IE(I) Inauguration M.E., Ph.D., FIE (Dean of Industrial Collaborations & IQAC), and Dr. V. Vallinayagam, Ph.D. (Dean of Student Affairs). The event was led by Dr. L. Balamurugan (Head of</p>

		<p>Department, Mechanical Engineering). The IE(I) student chapter is coordinated by Dr. R. Sathish, M.E., Ph.D., and Mr. K. Pravinkumar, M.E., (Ph.D.,). The inauguration celebration was attended by 70 individuals, comprising students and both teaching and</p>
2		<p>Atwo day faculty workshop was organized by Department of Mechanical Engineering to enhance the knowledge in the FUSION 360 designing software. Twenty faculties form both the institution got Autodesk Certification after completing the assigned assignments</p>
3	<p>Faculty Acheivements:</p>	<p>Dr. L. Balamurugan , Associate Professor & Mr. G. Ashwin Prabhu , Assistant Professor from the Department of Mechanical Engineering Published an article titled "Novel Approaches in Developing Sustainable and Cost- Effective</p>

		<p>Semi- Active Suspension Systems for Smart Vehicles AReview" in SCIE Indexed Annexture 1 Q2 Journal "Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering" on November 13, 2024 with an Impact Factor of 2.3.</p> <p>Dr. R. Selvam & Dr. R. George Sahaya Nixon Associate Professor from Department of Mechanical Engineering Attended a Six days offline AICTE ATAL Faculty Development Program on "Engineering Solutions for 09/11/2024. Sustainable Future: Uniting Disciplines to Tackle Carbon Footprint Reduction" at KCG College of Engineering from 04/11/2024 to 09/11/2024.</p> <p>Dr. M. Ganesh, Mr. G. Kasirajan , Mr. T. Balasubramanian , Mr. G. Ashwin Prabhu , Mr. K. Pravinkumar , Mr. K. Gnanasekaran , Assistant Professor from Department of Mechanical Engineering Attended a Six days offline AICTE ATALFaculty Development Program on "Engineering Solutions for Sustainable Future: Uniting Disciplines to Tackle Carbon Footprint Reduction" at KCG College of Engineering from 04/11/2024 to 09/11/2024</p> <p>Dr. K. Arun, Associate Professor, Department of Mechanical Engineering, Published a Patent Titled "A Novel Fuel System for Alternative Fuels in Spark Ignition Internal Combustion Engine" Application no: 202441082996A</p>
4		<p>Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering Secured Elite Certificate in the "Fundamentals of Manufacturing Process" in NPTEExam inAssociation with IIT Roorkee Dr. M. Ganesh, Assistant Professor, Department of Mechanical Engineering,</p>

		<p>Published two Patents Titled “A Innovative Time Management System for Increased Productivity” Application no: 202441080456 and “An AI-Powered Fraud Detection and Prevention System and MEthodThereof”Application no: 202421075396A</p> <p>Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering Secured Elite Certificate in the "Basics of Kanpur. in NPTELExam. Mechanical Engineering- 1" in NPTEL Exam in Association with IIT</p> <p>Dr. M. Arun, Assistant Professor from Department of Mechanical Engineering, Secured Elite Silver Certificate in “Engineering Metrology”</p> <p>Mr. G. Ashwin Prabhu, Assistant Professor from the Department of Mechanical Engineering Secured Elite Certificate in the "Fundamentals of Manufacturing Process" in NPTEL Exam in Association with IIT Roorkee. • Dr. M. Ganesh, Assistant Professor from Department of Mechanical Engineering, Secured Elite Silver Certificate in “Social Innovation in Industry 4.0” in NPTELExam inAssociation with IIT Kanpur. • Mr.K.Gnanasekaran, Assistant Professor from department of Mechanical engineering Secured Elite silver and 5% Topper certificate in “Basics of Mechanical engineering-1” in NPTEL exam in Association with IIT Kanpur.</p> <p>Mr. M. Siva, Assistant Professor from Department of Mechanical Engineering attended a six days Faculty Development Program in “Robotics and Industrial Automation” organized by Department of Mechanical Engineering, Chaitanya</p>
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		<p>Bharathi Institute of Technology (A), Hyderabad during 04-11-2024 to 09-11-2024. • Dr. N. Arunkumar, Professor & Dean, from Department of Mechanical Engineering attended a six days Faculty Development Program in “Unlocking the Potential of AI: Journey from Transformer Models to GenAI, Applications from Industry to Space, and the Evolving Threat Landscape” organized by Nelson Mandela Marg, Vasant Kunj, New Delhi-110070, during 14-10-2024 to 26-10-2024. Energy Technology” in NPTELEExam. • Dr. K. Arun, Associate Professor from Department of Mechanical Engineering, Secured Elite and 5% Topper certificate in “Sustainable • Dr. R. Selvam, Associate Professor from Department of Mechanical Engineering, Secured Elite Silver and 1% Topper certificate in “Basics of Mechanical engineering-1” in NPTELEExam.</p>
5		<p>Mr. K. Gnanasekaran, Assistant Professor, Department of Mechanical Engineering, delivered a seminar on “Testing of materials” at Dhanalakshmi srinivasan college of engineering and technology for third year students on 11/11/2024</p>
6	Student Achievements:	<p>It is proud to announce that 230 students have been certified from NPTEL, organized and conducted by various IIT Institutions in this July Oct 2024</p>


		session. Among that Our department students have bagged 1 GOLD, 14 SILVER, 48 ELITE and 167 students have been successfully completed their course. The following 8 more students were added in the ELITE+SILVER category in the final phase of result;
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DEPARTMENT OF ELECTRICAL AND COMMUNICATION ENGINEERING

Events conducted:

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

1. A) Alumni Activities	Report
	<p>A technical talk featuring Mr. Prashant Seetharaman, a distinguished alumnus from our 2011-2015 batch. Prashant's insightful presentation on "Introduction to Design for Test in VLSI" shed light on the crucial role of DFT in ensuring the quality and reliability of VLSI chips.</p> <p>The session covered:</p> <ul style="list-style-type: none">• Core Concepts of DFT: A comprehensive overview of DFT techniques and their applications.• Real-world Challenges and Solutions: Practical insights into overcoming common challenges in VLSI testing.• Future Trends in DFT: A glimpse into the evolving landscape of VLSI testing.• By attending this event, participants gained a deeper understanding of DFT and its impact on the entire VLSI design cycle.

	
2. Placement Activities	
A) System Verilog by Edveon Technologies	Report


PLACEMENT EMPOWERMENT PROGRAM
VLSI DESIGN CENTER

SPECIAL SESSION:

**LEARNING TO LEARN
SYSTEM VERILOG FOR VERIFICATION**



Vinod Kumar Gopinath
Chief Technology Officer at Edveon
Technologies

 **BASIL HALL**
ENGINEERING PLACEMENT



27/11/2024



01.00 P.M - 03.00 P.M

VLSI Design Center hosted an enlightening session on "Learning to Learn System Verilog for Verification" as part of the Placement Empowerment Program. The session was graced by Mr. Vinod Kumar Gopinath, CTO of Edveon Technologies, who shared his extensive knowledge and experience in System Verilog and its applications in hardware verification.

Mr. Gopinath's insightful presentation demystified complex System Verilog concepts, making them accessible to all attendees. The session delved into real-world industry practices, providing valuable insights into the practical applications of System Verilog in the field of hardware verification.



B) Unveiling the Secrets of Chip Design: A Tech-Talk with Industry Expert

Report

TECH TALK: DESIGNING A CHIP, THE INDUSTRY WAY



A captivating tech-talk featuring Mr. Bharathwaj TA, a distinguished Principal Engineer at Microchip Technology Inc., Chennai. His insightful presentation on "Designing a Chip, the Industry Way" provided a comprehensive overview of the intricate process of chip design.

- **Industry Best Practices:** Mr. Bharathwaj shared valuable insights into the latest methodologies and tools used in the industry, providing a practical understanding of the chip design workflow.
- **Essential Skill Sets and Career Opportunities:** The session delved into the core skills required for a successful career in chip design, such as proficiency in software tools, hardware architecture, and analytical skills. Mr. Bharathwaj also highlighted the diverse career paths available in this dynamic field, inspiring our students to explore their potential.



	
3) Outreach Program	
A) Andhra Pradesh State Skill Development Corporation	Report
	<p>Mr. M. Lingeswaran, Assistant Professor, ECE served as a 5G Consultant to DADB-German Academy of Digital Education for the Andhra Pradesh State Skill Development Corporation (APSSDC) sponsored “5G Communication Technology” Frameworks for 5G Test Bed Deployment” at Andhra Loyola Institute of Engineering and Technology,Vijayawada</p>



Mr. M. Lingeswaran, Assistant Professor, ECE served as a 5G Consultant to DADB-German Academy of Digital Education for the Andhra Pradesh State Skill Development Corporation (APSSDC) sponsored “5G Communication Technology” Frameworks for 5G Test Bed Deployment” at Gayatri Vidya Parishad College of Engineering, Visakhapatnam.



Mr. M. Lingeswaran, Assistant Professor/ECE, served as a 5G consultant to DADB - German Academy of Digital Education for the Andhra Pradesh State Skill Development Corporation (APSSDC) sponsored "5G Communication Technology" course, and delivered hands-on training on “Harnessing the Power of Open Source Frameworks for 5G Test Bed Deployment” at VEMU Institute of Technology, P.Kothakota, Pakala, Andhra Pradesh 517112.



Mr. M. Lingeswaran, Assistant Professor, ECE served as a 5G Consultant to DADB-German Academy of Digital Education for the Andhra Pradesh State Skill Development Corporation (APSSDC) sponsored “5G Communication Technology” Frameworks for 5G Test Bed Deployment” at Andhra Engineering College, Atmakur

B) Seminar Attended



Two faculty members from ECE department (Mr. M. Lingeswaran & Dr. K. Ramachandra Reddy) attended MathWorks Seminar 2024 - Empowering Future Engineers for Space, Mobility and Sustainability at Le Royal Meridien Chennai co-sponsored by ARK Infosolutions Pvt. Ltd. and ICT ACADEMY. This will enhance the implementation strategies for Campus wide License of MATLAB and student empowerment in various domains that are in high demand with regard to industries.



Mr. M. Lingeshwaran (AP/ECE) had the privilege of attending the IEEE 5G/6G Innovation Testbed Workshop. This workshop, organized by IEEE in collaboration with EBSCO Information Services India Private Limited, took place on 20th November 2024 at Novotel Chennai Chamiers Road between 10:00 am and 01:00 pm. The workshop's primary focus was on transformative teaching, learning, and research using the IEEE 5G/6G Innovation Testbed.



Dr. P. Latha ASP/ECE, successfully completed a 5-day workshop from 19th to 23rd November 2024 on "RTL to GDSII using Synopsys Tools" organized by the Department of Electronics & Communication Engineering at [G Narayanamma Institute of Technology and Sciences](#) and [Atal Incubation Centre GNITS](#), Hyderabad in collaboration with [Synopsys Inc](#) under its SARA (Synopsys Academic and Research Alliances) and [VLSI EXPERT Private Limited](#).

c) FDP/Workshop:

The following staff member have participated in various FDP/Workshop conducted by other institutions during the

month of November 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.	Mr. M. Lingeswaran	5G Fundamentals with MATLAB course offered by MATHWORKS	International	STTP	31 October- 1 November	2	MATHWORKS Training Services.
2.	Mrs. S. Devipriya	Principles of Modern CDMA/MIMO/OFDM wireless communication course	National	STTP	Aug-Oct 2024	12 weeks	NPTEL
3.	Dr. J. Martin Leo Manickam	Principles of Modern CDMA/MIMO/OFDM wireless communication course	National	STTP	Aug-Oct 2024	12 weeks	NPTEL
4.	Dr. P. Ezhilarasi	Basics of Software Defined Radios and Practical Applications	National	STTP	Jul-Aug 2024	8 Weeks	NPTEL
5.	Dr. S. Rajeshkannan	Basics of Software Defined Radios and Practical Applications	National	STTP	Jul-Aug 2024	8 Weeks	NPTEL

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
6.	Mrs. E. Malarvizhi	Microelectronics: Devices to Circuits course	National	STTP	July-Oct 2024	12weeks	NPTEL
7.	Dr.P.Latha	Digital VLSI Testing	National	STTP	July-Oct 2024	12 Weeks	NPTEL

d) Patent Published

The following staff member have published patent during the month of November 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.	202441071518	R. Uma Maheswari, D.Lakshmi	D.Lakshmi,	IoT Based Eutrophication Monitoring System	07/10/2024	18/10/2024	-

11.Publications

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

1. Rajeshkannan, "Performance Evaluation of PET Foam and Areca Fruit Fibre Reinforced Modified Cellulose-Vinyl Ester Composite on Thermal and Water Ageing Conditions", Waste And Biomass Valorization (Nov 2024)
2. Stalin Aghalya, "A low-cost localization method in autonomous vehicle by applying light detection and ranging technology", Indonesian Journal of Electrical Engineering and Computer Science, 2024
3. S.Aghalya, "Cloud based prediction of epileptic seizures using real-time electroencephalograms analysis" International Journal of Electrical and Computer Engineering, vol 14, no.5, pp. 6047–6056
4. Rajeshkannan, S "Load bearing investigations on silane coupling grafted PET core and pineapple leaf fibre-vinyl ester sandwich composite building material", Polymer Bulletin, (2024)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)
1.	<p>International Conference</p>  <p>The brouchure is divided into several sections. The top left section, 'ABOUT THE COLLEGE', describes St. Joseph's College of Engineering's 31-year history, its ranking among top 10 institutions for Anna University, and its recognition by the National Institutional Ranking Framework (NIRF). The top right section, 'ABOUT THE DEPARTMENT', highlights the department's establishment in 1993, its focus on research and innovation, and its recognition by the Department of Higher Education, Tamil Nadu. The middle section, 'INTERNATIONAL CONFERENCE ON TECHNOLOGY & INNOVATION - 2024', specifies the dates as 28-29 November and lists the organizing department. The bottom left section, 'FOR MORE DETAILS', provides a website link and an email address. The bottom right section, 'CONFERENCE CHAIR', identifies Dr. Jayarama Pradeep as the Professor & Head of the Department of EEE. The right side of the brouchure features a photograph of the college's modern campus with green lawns and buildings.</p> <p style="text-align: center;">PIC: EVENT BROUCHURE</p>	<p>Department of EEE of St. Joseph's College of Engineering organized an International Conference on Technology and Innovation on 28th & 29th November 2024. The various track are Quantum physics in Robotics and Automation ,Smart and Energy Efficient System , Green Computing and Sustainable Development</p>

2.

IEEE activities



PIC: EVENT PHOTO

The IEEE SJCE Student Branch actively participated in the Eureka 2024 competition, conducted by the IEEE Pune Section from October 9 to November 9, 2024. This initiative witnessed the involvement of 2nd-year, 3rd-year, and final-year EEE students, who made significant contributions to the event's objective of educating and inspiring young minds. Participants visited multiple schools, with some teams exceeding the requirement of two urban and two rural schools by covering up to seven schools. They engaged with students from the 8th and 9th grades, addressing topics such as women welfare, artificial intelligence, agriculture, and food among others. The session included interactive activities, demo project demonstrations, and the distribution of participation certificates, encouraging enthusiasm and learning among the students. The IEEE SJCE SB team collectively addressed a total of 3,086 students across 65 schools, spanning 11 districts, including Kanniyakumari, Virudhachalam, Cuddalore, Thiruvannamalai, Chengalpattu, Chennai, Neyveli, Thirunelveli, Kanchipuram, Theni, and Vellore. This impactful participation highlighted the students' dedication to societal betterment through education and innovation, leaving a lasting impression on the schools and students they interacted with.

3.

IEEE activities



PIC: EVENT PHOTO

On October 26, 2024, the IEEE St. Joseph's College of Engineering Student Branch Chapter (SBC60101) hosted IEEE Xtreme 18.0, a 24-hour global coding competition designed to challenge and inspire student programmers. The event aimed to foster innovation, teamwork, and problem-solving skills among IEEE student members. The hackathon saw enthusiastic participation from over 80+ students, forming 20+ competitive teams. Esteemed guests Mr.Gaurav Parthak, Dr.Oded Margalit, Mr.Saptarishi Pani, and Ms. Shathakshi Singh, provided valuable insights and motivated participants with strategies to excel in programming, coding, and competitive problem-solving. The event offered participants the opportunity to tackle real-world coding challenges, enhance their technical expertise, and gain hands-on experience. Top- performing teams were recognized with certificates and accolades for their exceptional achievements.

4.

IEEE activities



PIC: EVENT POSTER

On 23rd November 2024, the IEEE St. Joseph's College of Engineering Student Branch Chapter (SBC60101) hosted the Spectrum session. The speaker, Ms. SINDHUJA. B (II-Yr/EEE) spoke on "Future of transistor". The speaker enlightened us with the idea that "The future of transistors is exciting, with emerging technologies and advancements in traditional transistors promising improved performance, efficiency, and functionality. However, challenges and limitations must be addressed to ensure continued progress and innovation." The session was held between 6:00 P.M. and 7:00 P.M. Around 40+ participants participated and had an amazing experience during the meet, thoroughly enjoying the entire session. The speaker was honoured with an E-memento. Outcome: This event allows several students to enhance on various and domain and encourage their public speaking by removing their stage fear.

5.

IEEE activities



PIC: EVENT PHOTO

IEEE SJCE SB organized an alumni interaction Meeting on 8/11/2024, where Mr. Kumaran, the Past Chair of IEEE SJCE SB (Batch 2021), was invited as the speaker. Currently, Mr. Kumaran is working as an Electronic Engineer at Advanced Energy Industries, United States. During the session, he shared valuable insights on the history of IEEE, its benefits, and the numerous opportunities it offers to its members. Mr. Kumaran also motivated the 2nd-year students, who are the new IEEE members, encouraging them to actively engage in IEEE activities and make the most of their membership. The event was well-received, with 80 students participating in the interactive session. The alumni interaction provided a platform for the students to learn from Mr. Kumaran's experiences and gain inspiration for their own IEEE journey. The session successfully highlighted the significance of IEEE membership and left the students inspired and eager to contribute to the IEEE community.

6.

ISTE activities



PIC: EVENT POSTER & PHOTO

St. Joseph's College of Engineering (Electrical & Electronics Engineering) in association ST. JOSEPH'S ISTE STUDENT CHAPTER organized a technical event called "TECHXPLORE" on 07/11/2024. Approximately 35 Students from second year attended the event on G-meet at 6.00 pm to 7.00 pm. Enhanced energy efficiency in technology refers to the development and implementation of systems, devices, and processes that use less energy to perform the same tasks or achieve the same outcomes. These advancements help lower operational costs, reduce environmental impact, and support sustainable practices across various sectors, including computing, manufacturing, transportation, and telecommunications.

OUTCOME : Enhanced Energy Efficiency - Projects focusing on power management, smart grids, and energy-saving devices can significantly reduce energy consumption, leading to lower costs and a smaller carbon footprint.

7.

Club activities



PIC: EVENT POSTER

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) Choppers CLUB organized a technical event "BATTLE BOTS" on 05/11/2024. Approximately 35 Students from the second year attended the event on G-meet from 6.00 pm to 7.00 pm. It hosts an electrifying robot combat event where fierce machines battle in a high-stakes arena using software.

OUTCOME

- Participants gained deeper insights and improved their problem-solving abilities through challenges.
- Categories could include mastering the art of wiring and circuiting.

8.

E-Cell activities



PIC: EVENT POSTER & PHOTO

The Illuminate Workshop on entrepreneurship, held on 28th November 2024, was a highly successful and engaging event that attracted 100 participants eager to explore the fundamentals of entrepreneurship. The workshop was led by the esteemed guest speaker, Mr. Vijay Bhaskar, a CX Evangelist specializing in Strategy & Research at Relevantz, who is renowned for his expertise in customer experience and strategic innovation. The session provided an engaging exploration of entrepreneurship, covering its definition, key characteristics, and importance in today's competitive landscape. To facilitate collaboration, participants were divided into teams. This structured environment fostered dynamic idea exchanges during the sessions. This interactive exercise sparked creativity and promoted innovative thinking among participants. Teams applied the knowledge gained from the BMC workshop to their chosen problems, collaboratively developing comprehensive business models. This activity emphasized real-world application and critical thinking. A session on startup development provided actionable strategies for creating Minimum Viable Products (MVPs) and validating business ideas. Participants learned about iterative testing, refining their ideas, and developing Proofs of Concept (POCs).

9.

Placement club activities



PIC: EVENT POSTER

The Department of EEE has conducted SEERA training program for III year students through Lingual Club and Bright Byte Coders Club on 27/11/24. The speakers of the event are from III year ,**Dharanidharan R** on the topic C Programming, **Anandh J** on the topic Scope of Embedded Engineering, **Dinesh C** about Group Discussion & **Dhiksha M.M** on the topic blood relation. The program is designed to improve students' skills in various aptitude topics and teaches them the placement drive procedures for various companies.

10.

Alumni activities



PIC: EVENT POSTER

Our department of Electrical and Electronics Engineering has organized an alumni talk on **“HOW TO SUCCEED IN ZOHO PLACEMENT DRIVE?”** for all Zoho eligible EEE students on 8th November 2024 at 6:30 PM. Our alumni **Ms. V. Vishal & Ms. D. Thinoj** (Batch : 2019- 2023) ZOHO provided guidance for the students to crack the different stages of recruitment process. The session was very interactive and students got motivated.

11.

Student achievements



Pic: EVENT PHOTO PRIZE

- IGEN ENSAVCLUB honoured the winners of IGEN ENSAVER Award 2024 on IGEN ENSAVCLUB Annual Day 2024 held at St Xavier Catholic College of Engineering, Kanyakumari. St.Joseph's College of Engineering has received IGEN ENSAVER Award 2024 from the Institution of Green Engineers for promoting SDG 7,12 &13. Our faculties Dr.Jayarama Pradeep and Mr.R.Elanthirayan received IGEN ENSAVCLUB ORGANIZER AWARD 2024 in recognition of the efforts made by them to organize various event emphasizing importance of SDG 7, SDG 12, SDG13. ENSAV club co-ordinator Dr.M.Venmathi received IGEN SDG ICON OF THE YEAR 2024 for organizing more number of events aligned with SDG 7, 12,13. Ensav club student Co-ordinators Lal Arjun R and Joshika (III EEE B) also received IGEN ENSAVCLUB ORGANIZER AWARD 2024.

- The following students won prizes in the Anna University Zonal Tournament.

1	Aparna C (IV EEE A Swarna N (II EEE C)	Ball Badminton-Winner
2	Padala Dhonika (II EEE B)	bronze in 50 breaststroke Silver in 50 free style and Silver in 50 backstroke
3	Sarasree S (II EEE C) Manjushree A (II EEE C)	Kabaddi-Winner

12.	<h2 style="text-align: center;">Faculty Publication</h2>	<ul style="list-style-type: none"> • Mr.S.Nishant published an article titled " Decoding Infectious Disease Dynamics: A Stochastic Approach to Population Heterogeneity and Epidemic Outcomes " in Nanotechnology Perceptions (Scopus Journal). • Ms.S.Gomathi published an article titled " Cat Swarm Optimized PI Controller Design for Wind Energy-Based Switched Reluctance Generator ” in SSRG International Journal of Electrical and Electronics Engineering • Dr.V.Krishnakumar published an article titled “Fault in Converter Interfaced Micro Grid Using Detection and Identification of Hybrid Technique” in International Journal of Adaptive Control and Signal Processing.
13.	<h2 style="text-align: center;">Faculty awards and recognitions</h2> <div data-bbox="338 708 907 1110" data-label="Image"> </div> <p style="text-align: center;">Pic: EVENT PHOTO</p>	<ul style="list-style-type: none"> ➤ Dr.Jayarama Pradeep and Mr.T.Sri Anandhaganesh has been awarded Certificate of Appreciation on 18/10/2024 in recognition of your invaluable contribution to the Energy Swaraj Foundation in promoting the Energy Literacy Training during the academic year 2024-25. ➤ Dr.M.RameshBabu has reviewed 2 papers for the Springer Nature. ➤ Dr.T.V.Narmadha acted as BOS member for revising the curriculum of ECE dept of Dr.Dharmambal Govt. Polytechnic, College for women (Autonomous) Tharamani ➤ Dr.T.V.Narmadha acted as a session chair in the IEEE International Conference on Smart Technologies for Sustainable Development Goals (ICSTSDG), on 08-11-2024 at S.A.Engineering College, Chennai. ➤ Dr.T.V.Narmadha delivered a lecture on the topic “Introduction to Semiconductor technologies for 5G and 6G Communication” on 18.11.2024 at New Prince Shree Bhavani College of Engineering

14.

Industry Institute Interaction



Pic: EVENT PHOTO

- **Dr.Jayarama Pradeep and Mr.A.Sadeeshkumar** met **Dr. K. Maran, Director of the Department of Management Studies, at Sairam Institutions on 25th November 2024** to discuss incubation initiatives for St. Joseph's College of Engineering.
- **Dr.Jayarama Pradeep and Mr.A.Sadeeshkumar** had an insightful meeting with **Dr. Renerobin, Professor & Dean - Innovation at Sai Ram Institutions on 25th November 2024** . He shared valuable perspectives on structuring an innovation and incubation center to support students throughout their four-year undergraduate journey.
- **Dr.Jayarama Pradeep ,Dr.P.Velmurugan and Mr.R.Sreekanth** visited Auto EV Tech Vision Summit one of **India's premiere EV and automotive technology project expo** held at **KTPO Convention Centre ,Whitefield Bangalore on 27/11/24 to 29/11/24**. The Auto EV India gathers all kinds of technologies for EVs, HVs and FCVs; Components, modules, semiconductor, Motors, Inverters, Rechargeable Batteries, Chargers, parts, lightweight material and testing etc. Our third year students Joshika ,Nilavarasi, Malini, Maheswaran, Lokesh Balaji ,Jayaram, Lal Arjun also visited the Auto EV Tech Vision Summit

15.

School Event



Pic: EVENT POSTER & PHOTO

Department of EEE conducted a student development program for **Home Appliances Servicing from 11/11/24 to 16/11/24**. This program is designed to educate the students about home appliance services. **Quizathon on various topic like basics of computer , Information & technology,Robotics ,General Knowledge,Scientific Advancement and logo identifications from 25/11/24 to 30/11/24**. Many students from different schools registered for this program.

16.	PLACEMENT DETAILS FOR THE MONTH OF NOVEMBER 2024	2021-2025 Batch Total No of students placed = 53 Students Total No of Offers = 66 Offers Total No of Students (UG) = 194 Total No of Eligible Students (UG) = 160 (All Clear) % of students Placed (UG) = $46/194 = 27.4\%$ No of students having single offers = 42 No of students having Double offers = 9 No of students having Triple offers = 2
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DEPARTMENT OF MBA

FDP / STTP/ WORKSHOP ATTENDED:



Dr. Vani attended 5 Days National FDP on “Data Analysis using SPSS in Quantitative Research organised by Institute for Scholarly Research and Training from 5 – 9 Nov,2024.

Mrs. Angel Priya has participated in 5 days FDP on Integrating AI in Academic Research; Tools and Techniques from 13-17th November, 2024.

Dr. Angelin S. Kirupa has participated in 2 days National workshop on Designing Effective Surveys organised by CEDAAR on 8 & 9 November, 2024.

INDUSRIAL VISITS:



The department of Management studies organized a one-day Industrial Visit to “Modern Bakers (Pvt.) Ltd” on 8.11.2024 for the II year MBA-B & D students. Upon arrival, we were greeted by the HR manager who graciously hosted us. He provided a comprehensive overview of the manufacturing processes and the stringent quality measures implemented by Modern bakers Pvt.Ltd.,

The total numbers of students were 107 accompanied by 4 professors.



The department of Management studies organized a one-day Industrial Visit to “Autotech Industries pvt ltd. ” on 4.11.2024 for the II year MBA-B & D students. During our visit, we observed the flow of operations in several key departments. Beginning in Raw Materials and Inventory Management, manufacturing & assembly, quality control & testing and finally packing & transportation. The visit sums upto about 98 students and lead by four faculty members (Dr.Ajith, Dr.Gangadharan, Dr.Menaga and Ms.Angel Priya).

RESOURCE PERSON:



Dr.Angelin S.Kirupa was a resource person for the popularization program on Daily Habits for Sustained Motivation and productivity at SRM University, Ramapuram on 07.11.2024

DEPARTMENT OF SCIENCE

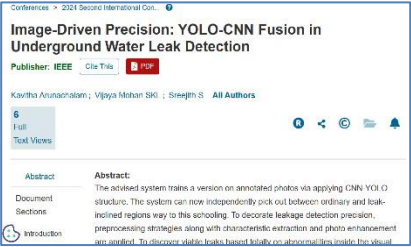
Sl. No.	Events	Remarks
1	Collabarative Quality initiatives with other institutions	<ol style="list-style-type: none"> 1. Dr. P. Saravanan and Dr. N. R. Rajagopalan have received approval for a grant of Rs. 100,000 to conduct AICTE Training and Learning (ATAL) Academy online faculty development program titled "Innovations in Manufacturing: Bridging Academia and Industry 4.0 in a Virtual Environment."for the academic year 2024-2025. 2. Dr. K. Satheshkumar and Dr. G. Sasikumar have received approval for a grant of Rs. 20,000 from the Tamil Nadu State Council for Science and Technology towards a two-day national-level conference in 2024-2025, titled "National Level Conference on Advances in Engineering Materials." 3. Dr. K. Jayamoorthy, Associate Professor, Department of Chemistry had evaluated a Doctoral thesis from University of Zimbabwe, Zimbabwe. 4. Dr. S.M. Prakash had completed the translation consultancy task from NPTEL & IITM, on the topic of "Interatomics: Basics & Applications" and "English literature of the Romantic Period 1798-1832" and obtained a consultancy amount of Rs. 8250. 5. Dr. N.R. Rajagopalan had completed the translation consultancy task from NPTEL & IITM, on the topic of "Programming in Modern C and obtained a consultancy amount of Rs. 6750.
2	Industrial Visits,Inplant Training,Internships	-
3	Guest Lecture	<p>Resource person:</p> <ol style="list-style-type: none"> 1. Dr. P. Krishnan had acted as a resource person and delivered his speech on "Semiconductor Devices and Applications" during the guest lecture organized by the Department of Physics at the Academy of Maritime Education and Training (AMET), Chennai, on 7.11.2024.-
4	FDP/Workshop/Conference	<p>NPTEL FDP</p> <ol style="list-style-type: none"> 1. Dr. P. Saravanan, Dr. S. Kiruba, Dr. A. Arulmozhi, Dr. A. Mahalakshmi, Dr. S. Manikandan, Dr. S. Rama, Dr. G. Murugan, Dr. V. Swarnalatha, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Dr. J. sharmila, Ms. S. Savitha had attended NPTEL FDP on "Basic Environmental Engineering and Pollution Abatement". 2. Dr. S. Suresh had attended NPTEL FDP on "Physics of Functional Materials &


		<p>Devices” and ““Concepts in Magnetism and superconductivity”.</p> <p>3. Mr. S. Kaleel Mohamed Ibrahim had attended NPTEL FDP on “Artificial Intelligence and Machine learning in Materials Engineering”.</p> <p>4. Dr. K. Sathesh Kumar had attended NPTEL FDP on “Performance Traditions of the Mahabharata in Tamil Nadu”.</p> <p>5. Dr. N.R. Rajagopalan had attended NPTEL FDP on “Introduction to Basic Spoken Sanskrit and Intermediate Level of Spoken Sanskrit” and “Developing Soft Skills and Personality”.</p> <p>6. Dr. S.M. Prakash had attended NPTEL FDP on “Advanced Transition Metal Chemistry”.</p> <p>7. Dr. K. Jayamoorthy had attended NPTEL FDP on ““Advance Course in Social Psychology,” and ““Patent Drafting for beginners”</p> <p>8. Dr. P. Krishnan had attended NPTEL FDP on “Advance Course in Social Psychology”.</p>												
5	Symposium	-												
6	STTP	<p>1. Dr. S. Suresh had attended six days online Short Term Training Programme on ““Innovative AI Tools for Research Excellence: A Hands-On STTP for Effective Writing and Data Visualization.”” conducted by “Mahendra College of Engineering, Salem” between 11.11.24 and 16.11.24.</p>												
7	Value added Courses/Courses other than VAC	-												
8	Competitions attended by students	-												
9	Awards/Prize won by students / Staff	<p>Staff: NPTEL 1% Topper: Dr. A. Uma Devi NPTEL 5% Topper: Dr. N.R. Rajagopalan NPTEL GOLD achievers: Dr. N.R. Rajagopalan & Dr. A. Uma Devi NPTEL SILVER achievers:</p> <table> <tr> <td>1. Dr. P. Saravanan</td> <td>2. Dr. N.R. Rajagopalan</td> <td>3. Dr. S. Manikandan</td> </tr> <tr> <td>4. Dr. J. Sharmila</td> <td>5. Ms. S. Savitha</td> <td>6. Dr. V. Swarnalatha</td> </tr> <tr> <td>7. Dr. S. Rama</td> <td>8. Dr. S. Kiruba</td> <td>9. Dr. A. Mahalakshmi</td> </tr> <tr> <td>10. Dr. S. Suresh</td> <td></td> <td></td> </tr> </table> <p>Students 1. Ms. S A Adlin Jose, Ms. S. Sindukavi and E Nethra Evangalen of I Chemical had won I prize in the “Brainy Bowl” event at “DRESTEIN 24 Technical fest” conducted by</p>	1. Dr. P. Saravanan	2. Dr. N.R. Rajagopalan	3. Dr. S. Manikandan	4. Dr. J. Sharmila	5. Ms. S. Savitha	6. Dr. V. Swarnalatha	7. Dr. S. Rama	8. Dr. S. Kiruba	9. Dr. A. Mahalakshmi	10. Dr. S. Suresh		
1. Dr. P. Saravanan	2. Dr. N.R. Rajagopalan	3. Dr. S. Manikandan												
4. Dr. J. Sharmila	5. Ms. S. Savitha	6. Dr. V. Swarnalatha												
7. Dr. S. Rama	8. Dr. S. Kiruba	9. Dr. A. Mahalakshmi												
10. Dr. S. Suresh														

		<p>“Saveetha Engineering College, Chennai” on 09-11-2024.</p> <p>2. Ms. A Mariya Pappa, Ms. V. Nandhini and Mr. M S Saikartheeswar of I ECE had won I prize in the “Crypt N Hunt” event at “DRESTEIN 24 Technical fest” conducted by “Saveetha Engineering College, Chennai” on 09-11-2024.</p>
10	Industrial Projects done by students	-
11	Publications(only published) details	<p>Journal Publications:</p> <ol style="list-style-type: none"> 1. Dr. P. Saravanan, has published an article titled "Renewable energy from waste plastic: Hydro processing of mixed waste plastic to diesel fuel utilizing Fe/Mo-Al₂O₃ catalyst" in “Journal of Process Safety and Environmental Protection”, 193, (2024) 683-696. 2. Dr. P. Saravanan, has published a research article titled "Catalytic Conversion of Plastic Waste into Diesel Fuel through Pyrolysis and Hydro processing" in “Journal of Process Safety and Environmental Protection” 193 (2024) pages 327- 339. 3. Dr. P. Saravanan, has published a research article titled "Impact of Shock Compression on the Photovoltaic Performance of NiCo₂O₄ Nanoparticles" in the journal “Luminescence” 2024, pages 1-10 (doi: 10.1002/bio.70043) 4. Dr. N. Punitha, has published a research article titled "Sustainability Improvement of Spark-Ignition Engine Performance Enhanced with Nanoparticles and Hydroxy Gas," in “International Journal of Hydrogen Energy”96 (2025) 1171-1185. 5. Dr. K. Jayamoorthy, has published a research article titled "Nano Silica Catalyzed Synthesis, NMR Spectral and Photophysical Studies of Imidazole Derivatives," in “Silicon” 16 (2024) 6555- 6565. 6. Dr. K. Jayamoorthy, has published a review article titled " Sustainable Desalination through Electrodeionization: Innovations and Focus on Efficient Carbonate Ion Removal – A Comprehensive Review," in “Journal of Environmental Technology Reviews” 13 (2024) 699-721. <p>Patents</p> <ol style="list-style-type: none"> 1. Mr. S. Kaleel Mohamed Ibrahim published a patent titled ““Eco-Friendly Solar-Powered Electric Vehicles: A Sustainable Transportation Solution” in the “ Official Journal of the Patent Office – Journal issue 48/2024 - ” – Application No. 202441091488 , dated 29-11-2024.

DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event/Screenshot	Corresponding remarks in regarding the status of activity execution
1.	<div><p>Appl. Math. Inf. Sci. 68 (No. 1, 61-73) 2025</p><p>Applied Mathematics & Information Sciences An International Journal</p><p>https://doi.org/10.18576/amis/190106</p><p>Enhanced Server-Client Framework for Optimizing QoS in Video Streaming Over Diverse Networks</p><p>Samiyye Duraimurugan^a, P. Jesu Jayarin^b, Suleiman Ibrahim Mohammad^{a,c}, N. Hariprasad^d, Asokan Vasudevan^{e,f}, Eddie Eu Hui Soon^g, Abdelrahman H. Hussein^h, and Muhammad Turki Alshuridehⁱ</p><p>^aDepartment of Information Technology, St. Joseph's College of Engineering, Coimbatore 119, Tamil Nadu, India ^bDepartment of Information Technology, Sreevidya School of Engineering, Sreevidya Institute of Medical and Technical Sciences, Sreevidya University, 602105 Chennai, India ^cElectronic Marketing and Social Media, Economic and Administrative Sciences, Zaqqa University, 13110 Zaqqa, Jordan ^dDepartment of Electronics and Instrumentation Engineering, St. Joseph's College of Engineering, Chennai-600 110, Tamil Nadu, India ^eFaculty of Business and Communications, INTI International University, Putrajaya Perdana BBN, Putra Nital, 71800 Nilai, Negeri Sembilan, Malaysia ^fWicksteed Business School, Budapest, Horea u. 10, 1083 Hungary ^gNetworks and Cybersecurity Department, Hasegah Center for Applied Scientific Research, Al-Ahliyya Amman University, 19111 Amman, Jordan ^hDepartment of Marketing, School of Business, The University of Jordan, 11942 Amman, Jordan</p><p>Received: 24 Aug. 2024, Revised: 14 Oct. 2024, Accepted: 17 Oct. 2024 Published online: 1 Jan. 2025</p></div> <p>Authors Dr.S.Duraimurugan, P. Jesu Jayarin, Suleiman Ibrahim Mohammad, N. Hariprasad, Asokan Vasudevan, Eddie Eu Hui Soon, Abdelrahman H. Hussein, and Muhammad Turki Alshurideh Published a paper in SCOPUS</p>	<p>Staff Publication</p> <p>Dr.S.Duraimurugan, P. Jesu Jayarin, Suleiman Ibrahim Mohammad, N. Hariprasad, Asokan Vasudevan, Eddie Eu Hui Soon, Abdelrahman H. Hussein, and Muhammad Turki Alshurideh "Enhanced Server-Client Framework for Optimizing QoS in Video Streaming Over Diverse Networks", Applied Mathematics & Information Sciences, No. 1, 61-73, http://dx.doi.org/10.18576/amis/190106, Scopus, Jan 2025. (Indexed in Scopus)</p> <p>Abstract: Traffic on the transmission channel has rapidly increased due to the exponential inflation in the number of users and their availability on the internet for a range of applications, such as video on demand (VoD), video streaming, and e-learning. Video service providers are taking much care in sending the video packets at a faster rate to ensure service quality for the customer; also, the presence of traffic in the transmission channel makes the provision of uninterrupted video streaming services with minimum delay and minimum packet loss a daunting proposition. When it comes to QoS characteristics like playout delay at start and end, delivery ratio, and throughput for various data rates, buffer sizes, bandwidth, and the number of failed servers, the performance of the suggested framework is compared with the present architecture. NS2 Simulator is used to simulate the proposed work. According to the experimental findings, the end-to-end latency and delivery ratio for changing data rates have decreased by 10% and increased by 10%, respectively. At the same time, for varying buffer sizes, the End-to-End delay has been lowered by 12%, and the delivery ratio has grown by 7%. Additionally, the throughput has grown by 17% in terms of changing buffer sizes.</p>

2.	 <p style="text-align: center;">Authors Kavitha A; Vijaya Mohan SKL; Sreejith S Published a paper in Scopus indexed Conference</p>	<p style="text-align: center;"><u>Student-Staff Publication</u></p> <p>Kavitha Arunachalam, Vijaya Mohan SKL, Sreejith S, "Image-Driven Precision: YOLO-CNN Fusion in Underground Water Leak Detection," 2024 Second International Conference on Advances in Information Technology (ICAIT), Chikkamagaluru, Karnataka, India, pp. 1-5, E ISBN:979-8-3503-8386-7, Print ISBN:979-8-3503-8387-4, doi: 10.1109/ICAIT61638.2024.10690440, 04 October 2024. (Indexed in Scopus)</p> <p>Abstract: The advised system trains a version on annotated photos via applying CNN-YOLO structure. The system can now independently pick out between ordinary and leak-inclined regions way to this schooling. To decorate leakage detection precision, preprocessing strategies along with characteristic extraction and photo enhancement are applied. To discover subtle leaks,https://doi.org/10.1109/ICAIT61638.2024.10690440</p>
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3.	 <p style="text-align: center;">Authors Vidhya N, Tharani Kumari G D; Dr. Heltin Genitha C, published a paper in Scopus indexed Conference</p>	<p style="text-align: center;"><u>Student-Staff Publication</u></p> <p>Vidhya N, Tharani Kumari G D; Heltin Genitha C, "Timely Detection of Stem Borer Pest Infestation through Convolutional Neural Network," 2024 10th International Conference on Advanced Computing and Communication Systems (ICACCS), Coimbatore, India, pp. 1497-1501, E ISBN:979-8-3503-8436-9, Print ISBN:979-8-3503-8435-2, doi: 10.1109/ICACCS60874.2024.10717191, 23 October 2024. (Indexed in Scopus).</p> <p>Abstract: The Yellow Stem Borer (YSB), Scirpophaga incertulas (Walker), is an important pest of rice throughout tropical South and Southeast Asia. The highest incidence of this pest is primarily observed in tropical lowland rice fields and deep-water rice</p>
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4.	<div data-bbox="359 164 753 428"> <p>AI-Driven Interviewer: Enhancing Interview Experience Through Conversational AI</p> <p>Conference paper First Online: 30 August 2024 pp 180–196 Click this conference paper</p> <p>S. Sumathi, D. Kevin Harris & A.K. Jeyanth </p> <p>Part of the book series: IFIP Advances in Information and Communication Technology ((IFIPACT, volume 718))</p> </div> <p>Authors Dr. Sumathi, S., Kevin Harris, D., Jeyanth, A.K, published a paper in Scopus indexed Conference</p>	<p>Sumathi, S., Kevin Harris, D., Jeyanth, A.K. AI-Driven Interviewer: Enhancing Interview Experience Through Conversational AI. In: Owoc, M.L., Varghese Sicily, F.E., Rajaram, K., Balasundaram, P. (eds) Computational Intelligence in Data Science. ICCIDS 2024. IFIP Advances in Information and Communication Technology, vol 718. Springer, Cham. https://doi.org/10.1007/978-3-031-69986-3_13, Publisher Name Springer, Cham, Print ISBN 978-3-031-69985-6, Online ISBN 978-3-031-69986-3, Published 30 August 2024. (Indexed in Scopus)</p> <p>Abstract: In the realm of job interviews, real-time challenges exist for both interviewers and job seekers. Interviewers often grapple with the time-consuming nature of sifting through numerous resumes, manually screening candidates, and conducting. Repetitive initial interview stages. Additionally, they encounter challenges related to ensuring standardisation and objectivity in evaluating candidates, thus potentially leading to bias and subjectivity in the process. The project mitigates bias by offering an objective evaluation process, ensuring every candidate is assessed against the same criteria. For job seekers, the project provides a more realistic and immersive interview experience, thereby addressing the lack of adequate preparation opportunities. It allows candidates to practise in a lifelike environment, receive immediate feedback, and consequently improve their interview skills and confidence.</p>
5.	<div data-bbox="352 792 743 1047">  </div> <p>Sample Paper Presentation Certificate</p>	<p>Paper Presentation in Abroad Date: 17-11-24 to 21-11-24 Conference Name: 45th Asian Conference for Remote Sensing, Srilanka</p> <ol style="list-style-type: none"> 1. Lathaselvi G, Lingeshwaran A and Melvin Fredrick J.S "Enhanced Cloud Removal in Sentinel-2 Imagery using Hybrid Spatiotemporal and Cycle Consistent Generative Adversarial Networks". 2. Athira A.R, Gokula Lakshmi K, Heltin Genitha C and Tamizhselvi A, "Deep Learning based Approach to Assess the Impact of Cyclone Ockhi on Coconut Tree Populations using Satellite Images". 3. Deepaksakthi V.K, Farhan Akthar K, Tamizhselvi A and Javid Ali L, "Smart Urban and Rural Development with Digital Twins and GIS".

6.




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


Application Number: 202431057174

Applicant Name: Ms.D.Jeya Priya

Inventor Name: 1. Dr. Raj Kumar Gupta
2. Sudhir kumar
3. Dr. Nitin Namdeo Bhole
4. Dr. Saroj Nitin Bhole
5. Dr. Blessy Babukutty
6. Dr. M Pandian
7. Dr. Jaidev Kumar
8. Mayank Anand
9. Ms.D. Jeya Priya
10. Dr. Prashant Mundeja
11. Dr. A. Uma Maheswari
12. Dr S Gopinath

Address: 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 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427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 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2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198,

		Publication Date: 18/10/2024
8.	 <p>Mr.P. Sirenjeevi Published an India Patent</p>	Title of the invention: ADAPTIVE INTRUSION DETECTION SYSTEM USING AI AND BLOCKCHAIN FOR ENHANCED NETWORK SECURITY Name of Inventor: 1. Mr. P. Sirenjeevi 2. Dr. V. Dhanakoti 3. Mr. J. Madhu Karthick 4. Dr. V. Sathya 5. Mr. A. Arunpandiyan 6. Dr. B. N. Karthik 7. Mr. R. Sankaranarayanan 8. Ms. M. Kavitha 9. Ms. V. Abarna Patent Application Number: 202441076782 Date of filing of Application: 09/10/2024 Publication Date: 18/10/2024

9.	 <p>Mrs. G. Sathyadevi Published an India Patent</p>	Title of the invention: A PREDICTIVE MACHINE LEARNING FRAMEWORK FOR ENHANCING SALES THROUGH CUSTOMER BEHAVIOR ANALYSIS IN E-COMMERCE Name of Inventor: 1. Dr.M.Sathyapriya 2. Dr. B. V. Ramana 3. Dr.M.Kathiravan 4. G. Sathyadevi 5. Tanuja Garg 6. Sudeshna Pahari 7. Subharun Pal 8. Shamshul Azam 9. Saminathan C 10. Deepak Sundrani 11. Dr. Abhishek Rajeshkumar Mehta 12. Prof. Karuna Patel Patent Application Number: 202441071607 Date of filing of Application: 23/09/2024 Publication Date: 04/10/2024
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Application Details

APPLICATION NUMBER	20241007386
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	06/09/2024
APPLICANT NAME	1. Dr. Praveen Kumar D 2. Dr. Rashmi Mohapatra 3. Saravanan Velusamy 4. A.M. Vidhyalakshmi 5. Dr. G. Kumar 6. Dr. M. Ramasamy 7. Mohanavalli M 8. D. Ilavarasi 9. Billa Vamsi Krishna 10. Dr. Satpalsing Devising Rajput 11. Dr. Sheerin A H 12. Dr. S. Jabeen Begum
TITLE OF INVENTION	ADVANCED IOT-ENABLED MACHINE LEARNING MODELS FOR PREDICTING AND DIAGNOSING CARDIOVASCULAR DISEASES
FIELD OF INVENTION	COMPUTER SCIENCES
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ADDITIONAL E-MAIL (As Per Records)	
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Mrs. A.M. Vidhyalakshmi
Published an India Patent

Title of the invention: ADVANCED IOT-ENABLED MACHINE LEARNING MODELS FOR PREDICTING AND DIAGNOSING CARDIOVASCULAR DISEASES

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Sample NPTEL Certificate

NPTEL CERTIFICATE

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2	Mrs.Tamizh Selvi A Mrs.Lathaselvi G	Data Science for Engineers	8 weeks	Elite
3	Mrs.Kavitha A	Introduction to Internet of Things	12 weeks	Elite Gold
4	Mrs.Hepsi AjibahA S Mrs.Sinthuja P M Mrs.Utthirakumari Mrs.D.Jeya Piya Mrs.Gnanasoundharam J	Introduction to Internet of Things	12 weeks	Elite Silver
5	Mrs.Elakkiya E	Introduction to Internet of Things	12 weeks	Elite





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**Sample FDP Certificate****Seminar/ FDP Attended by Faculty**

S.No	Title of the topic	Name of the Staff	Conducted By	Date
1	SALESFORCE PLATFORM DEVELOPER-I	Dr. J. THREESA JENIFFER	ICT Academy	11-11-2024 to 15-11-2024 (5 days)

DEPARTMENT OF MATHEMATICS AND ENGLISH

Events		Remarks				
FDP/Workshop/Conference						
		S.No	Name of the staff	FDP Title	Organized by	Date
		1	Dr.B. Amudha	Frontier in Pure and Applied Mathematics	Kongunadu Arts And Science College, Coimbatore	11-11-2024 to 15-11-2024
		-				
		-				
		S.No	Name of the staff	FDP Title	Organized by	Date
		1	Dr. P. Priyadarshinir	Arts in the Time of Hamlet's Android Phone and AI's Aristotle	Vivekananda College, Agasteeswaram	05-11-2024
		2	Dr. Jayakumar	Arts in the Time of Hamlet's Android Phone and AI's Aristotle	Vivekananda College, Agasteeswaram	05-11-2024
Symposium		-				

Awards/Prize won by staff									
Awards/Prize won by students		S.No.	Name of the Student	Branch & Sec	Event	Organized by	Date	Place	Cash
	1	Mukesh Kumar M Delfi A Allen Joseph G Kavya Sree A	I CSE C I CSE A I CSE A I CSE C	INNOVATION NEXUS	SRM Institute of Science and Technology	29 th OCT 2024	III	Rs.2,000	
	2	Nethra Srinivasan Sandhiya S R	I BIO TECH	PROJECT EXPO	IEEE Industrial Electronics Society & Sri Sairam Engineering College,	5 th & 6 th Nov 2024	III	Rs.2,000	
	3	Saravana Sudarshan s k Sushil David v Akash a Tharun Kumar	I CSE D I CSE E I MECH I CSE E	TECHNICAL MURDER MYSTERY	Saveetha Engineering College	8 th & 9 th Nov 2024	I	Rs.2,000	

	4	Sindhu Gowri g Anushaya Mary s Shreya shri vs Monika s	I BIO TECH	TECHNICAL MURDER MYSTERY			III	Rs.1,000
	5	Nivethaa M Varnika S Harini S R	I BIO TECH	BIO SOLVE BLITZ			III	Rs.1,000
Industrial Projects done by students								
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