




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




JANUARY 2024
DEPARTMENT OF BIOTECHNOLOGY


S.No.	Title of the Events and Photographs	Details of the Event
1.	<p>GUEST LECTURE</p>	<p>Mock interview by our Alumni Ms. Aishwaryaa Annapoorani and Ms.M. Priyadarshini was conducted for the III year students on 31.01.2024.</p>



<p>2.</p>	<p>BIOTECH CLUB ACTIVITY</p> 	<p>Biotech club activity BIO ZENITH was conducted for III year students on 11.01.2024.</p>
<p>3.</p>	<p>PUBLICATIONS(ONLY PUBLISHED) DETAILS</p>	<p>Dr. Chamundeeswari M*, An In-vitro Study on Post-surgical Breast Wound Healing Activity by Zinc Oxide Dots and its Optimization using Box Behnken Design , Journal of Drug Delivery Science and Technology (IF 5) Oct, 2023 , DOI:10.1016/j.jddst.2023.105094 Impact Factor :5.0</p>




An *in-vitro* study on post-surgical breast wound healing activity by zinc oxide dots and its optimization using Box Behnken design

R. Mary Nancy Flora^a, S. Palani^b, V. Renuka^c, M. Chamundeeswari^d  

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<https://doi.org/10.1016/j.jddst.2023.105094>

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Copy of paper published by Dr.M.Chamundeeswari


STAFF CONFERENCE PRESENTATION


4.



Dr. M. Chamundeeswari, has participated an oral and technical presentation entitled as "Research Progress Of Nanocellulose-Based Food Packaging" in 9th Asia Pacific International Modern Sciences Congress held on January 16-18, 2024 / Baku, Azerbaijan organised by Azerbaijan Cooperation University, Mata Sundri College for Women, University of Delhi & IKSAD Institute

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	 <p align="center">Dr. Lilly Raamesh received a design patent grant</p>	<p align="center">Patent Grant</p> <p>Title of the invention : Device To Predict Cardiovascular Attack</p> <p>Name Of the Inventors :</p> <ol style="list-style-type: none"> 1. Mr. V. Arun Antony 2. Dr. N.B. Mahesh Kumar 3. Dr. Lilly Raamesh 4. Mrs. Jayalakshmi Appasamy <p>Patent Application Number: 397144-001</p> <p>Date of filing of Application : 09/10/2023</p> <p>Date of Issue: 08/12/024</p>

1.	 <p>Certificates received by Faculty</p>	<u>FDP / Workshop Attended by the faculty</u>							
		S.No.	Name of the FDP /Workshop	Name of the staff	Conducted By	Duration	1	Latest Trend and Techniques in Software Engineering: An Industry Perspective	Mr. N. Raja Mohamed
S.No.	Name of the FDP /Workshop	Name of the staff	Conducted By	Duration					
1	Latest Trend and Techniques in Software Engineering: An Industry Perspective	Mr. N. Raja Mohamed	Christ (Deemed to be University)	20-01-24 to 27-01-24					



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Date: 01.03.2024


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DEPARTMENT OF CHEMICAL ENGINEERING


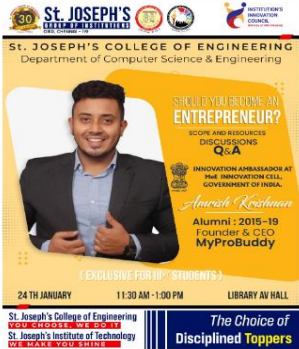
S.No.	Title of the Events and Photographs	Details of the Event
1.	FDP/WORKSHOP/CONFERENCE	<p>Dr.N.Venkatesh, Professor, Department of Chemical Engineering has attended a Five day ATAL - Faculty Development Program on <i>“Plastic Waste Management, key towards carbon neutrality”</i> Organised by Institute of Chemical Technology from 15.02.2024 – 20.01.2024.</p> <div data-bbox="1339 581 1829 915" data-label="Image"> <p>The image shows a certificate with a gold border and red and blue decorative corners. At the top, it features logos for Skill India, ATAL, and AICTE. The text reads: 'ALL INDIA COUNCIL FOR TECHNICAL EDUCATION, Nelson Mandela Marg, Vasant Kunj, New Delhi - 110 070, AICTE Training and Learning (ATAL) Academy. Certificate. It is certified that Dr. Venkatesh N, Professor of St. Joseph's College of Engineering, has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on Plastic waste management, key towards carbon neutrality at INSTITUTE OF CHEMICAL TECHNOLOGY from 15/01/2024 to 20/01/2024.' At the bottom, there are two signatures: Dipak V. Vaidyanathan, Coordinator, Associate Professor, INSTITUTE OF CHEMICAL TECHNOLOGY, and Dr. Ramesh Shankaranarayanan, Advisor, IT & Research Head, Training and Learning Division, AICTE.</p> </div> <p>Dr.N.Magesh & Dr.S.Sujatha, Assistant Professor, Department of Chemical Engineering has attended a Ten days Faculty Development Programme on <i>“Advancements in Biotechnology and Chemical Engineering (ABC – 2024)”</i> organised by Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Avadi from 02.01.2024 to 12.01.2024</p>

		 <p>Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College 140, Adambakkam Road, Chennai Approved by AICTE, New Delhi / UGC, New Delhi / All India Councils, Chennai</p> <p>Certificate of Participation</p> <p>This is to certify that Dr. Magrah N, Assistant Professor, from St.Josephs College of Engineering, has participated in the two weeks virtual Faculty Development Programme on "Advancements in Biotechnology and Chemical Engineering (ABC – 2024)" jointly organized by Department of Biotechnology and Department of Chemical Engineering (ABC – 2024)" jointly organized by Department of Biotechnology and Department of Chemical Engineering, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Avadi, Chennai, Tamil Nadu from 02nd January 2024 to 12th January 2024.</p> <p>Dr. D. Yuvraj Dr. J. B. Veeramani Dr. B. Bharathiraja Dr. F. Kamalanaban Head, Biotech Head, ChemE Head, Biotech Principal Coordinator Coordinator Coordinator</p> <p>Certificate No: FDM/ABC/2024/016</p>	 <p>Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College 140, Adambakkam Road, Chennai Approved by AICTE, New Delhi / UGC, New Delhi / All India Councils, Chennai</p> <p>Certificate of Participation</p> <p>This is to certify that Dr. Sujatha Sathya, Assistant Professor from St.Josephs College of Engineering, has participated in the two weeks virtual Faculty Development Programme on "Advancements in Biotechnology and Chemical Engineering (ABC – 2024)" jointly organized by Department of Biotechnology and Department of Chemical Engineering (ABC – 2024)" jointly organized by Department of Biotechnology and Department of Chemical Engineering, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Avadi, Chennai, Tamil Nadu from 02nd January 2024 to 12th January 2024.</p> <p>Dr. D. Yuvraj Dr. J. B. Veeramani Dr. B. Bharathiraja Dr. F. Kamalanaban Head, Biotech Head, ChemE Head, Biotech Principal Coordinator Coordinator Coordinator</p> <p>Certificate No: FDM/ABC/2024/015</p>
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	CODE CANVAS	
		<p>Date : 09.01.2024</p> <p>Venue : Library AV hall</p> <p>Nature of Event : Code canvas</p> <p>Participants : II & III year Students</p> <p>Organized by : Department of CSE</p> <p>Objective :</p> <ul style="list-style-type: none"> • To draw graphics, on the fly, via scripting (usually JavaScript). • The <canvas> element is only a container for graphics. • You must use a script to actually draw the graphics <p>Outcome :</p> <ul style="list-style-type: none"> • To track competency or mastery in a course or across a program

2	<p style="text-align: center;">Event – Backend Bridges</p>	
		
3	<p>AppX- Chain – Mobile app through Blockchain</p>	<p>Date : 13.01.2024 Venue : Bazil hall – Placement hall Nature of Event : AppX- Chain – Mobile app through Blockchain Participants : III year Students Organized by : Department of CSE & IEEE computer Society Objective :</p> <ul style="list-style-type: none"> To provide safe online transactions. Whether an Android app or an iOS app, blockchain technology allows users to avoid long wait times for secure

		<p>transactions.</p> <p>Outcome :</p> <ul style="list-style-type: none"> To reduce fraud and other trust-related issues in digital ad buying. <p>Blockchain has a wide range of applications in healthcare, including improving payment processing, electronic medical records, provider directories, and data security and exchange.</p>
<p>4</p>	<p>Alumni Talk – Should you become an Entrepreneur?</p> 	<p>Date : 24-1-24</p> <p>Venue : Library AV hall</p> <p>Nature of Event : Alumni Talk- Should you become an Entrepreneur?</p> <p>Participants : Engineering III year Students</p> <p>Organized by : Department of CSE</p> <p>Objective:</p> <ul style="list-style-type: none"> To assess their own strengths and weaknesses and help them use these skills to attain more success in their professional life <p>Outcome:</p> <ul style="list-style-type: none"> To serve as a platform for the institute to engage with their graduates and gain insights into their career progress and achievements.
<p>5</p>	<p>Alumni Talk – In pursuit of the Job Ready ME!</p>	<p>Date : 30-1-24</p> <p>Venue : Library AV hall</p>



Nature of Event : Alumni Talk- In pursuit of the Job Ready ME!

Participants : Engineering II year Students

Organized by : Department of CSE

Objective:

- To enhancing their employability scope, enhancing their performance, building confidence, and promoting professionalism.


Outcome:

- To serve as a platform for the institute to engage with their graduates and gain insights into their career progress and achievements.


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1. Event conducted

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

1. IEEE Event	Report										
 <p>St. JOSEPH'S GROUP OF INSTITUTIONS OMR, CHENNAI - 119</p> <p>IEEE Advancing Technology for Humanity IEEE ComSoc IEEE Communications Society</p> <p>St. JOSEPH'S COLLEGE OF ENGINEERING STUDENT BRANCH CHAPTER</p> <p>DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING In association with IEEE COMMUNICATIONS SOCIETY Presents</p> <p>TECHNICAL TALK</p> <p>ON THE TOPIC "INTRODUCTION TO UNITY ENGINE" BY DR. R M GOMATHI Associate Professor, Dept. of CSE, Sathyabama Institute of Science & Technology, Chennai.</p> <p>30-01-2024 6:30PM TO 7:30PM</p> <p>Join the meeting via QR</p> <p>St. Joseph's College of Engineering YOU CHOOSE, WE DO IT St. Joseph's Institute of Technology WE MAKE YOU SHINE</p> <p><i>The Choice of</i> Disciplined Toppers</p>	<p>INTRODUCTION TO UNITY ENGINE</p> <table border="1"> <tr> <td data-bbox="955 584 1249 657">Date</td> <td data-bbox="1249 584 1879 657">30th Jan, 2024.</td> </tr> <tr> <td data-bbox="955 657 1249 698">Venue</td> <td data-bbox="1249 657 1879 698">Online (Google Meet)</td> </tr> <tr> <td data-bbox="955 698 1249 738">Time</td> <td data-bbox="1249 698 1879 738">6.30 PM to 7.30 PM</td> </tr> <tr> <td data-bbox="955 738 1249 844">Speaker</td> <td data-bbox="1249 738 1879 844">Dr. R. M. Gomathi, Associate Professor, Department of CSE, Sathyabama Science & Technology, Chennai.</td> </tr> <tr> <td data-bbox="955 844 1249 917">Audience</td> <td data-bbox="1249 844 1879 917">Registered IEEE Members of the Electronics & Communication Engineering Department.</td> </tr> </table> <p>The guest lecture successfully provided attendees with a comprehensive introduction to Unity Engine and its application in AR and VR development. Participants gained valuable insights into the technical aspects of creating immersive digital experiences and expressed interest in further exploring Unity Engine for their own projects</p>	Date	30 th Jan, 2024.	Venue	Online (Google Meet)	Time	6.30 PM to 7.30 PM	Speaker	Dr. R. M. Gomathi, Associate Professor, Department of CSE, Sathyabama Science & Technology, Chennai.	Audience	Registered IEEE Members of the Electronics & Communication Engineering Department.
Date	30 th Jan, 2024.										
Venue	Online (Google Meet)										
Time	6.30 PM to 7.30 PM										
Speaker	Dr. R. M. Gomathi, Associate Professor, Department of CSE, Sathyabama Science & Technology, Chennai.										
Audience	Registered IEEE Members of the Electronics & Communication Engineering Department.										

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)	Criterion
1	<p style="text-align: center;">IEEE activities</p>  <p style="text-align: center;"><i>PIC: EVENT POSTER</i></p>	<p>The IEEE Power and Energy Society of St. Joseph's College of Engineering organized an awareness event titled "Let's Plant a Tree" - Growing a Greener Tomorrow 2024. The contest ran from January 1, 2024, to January 7, 2024, with the primary goal of encouraging individuals to take responsibility for creating a greener environment. This initiative was launched at the beginning of the new year, and we urged participants to plant saplings and submit their entries through the provided Google Form. Approximately 15 participants enthusiastically embraced the initiative, and we are optimistic about its success. We believe that by setting an example, we can inspire others to take similar actions. We are delighted with the response and will be awarding E-certificates as tokens of appreciation to the participants.</p>	4

IEEE activities



PIC: EVENT POSTER

IEEE Spectrum, is the world’s largest professional organisation devoted to engineering and the applied sciences. It contains peer-reviewed feature articles pertaining to technology and science trends affecting business and society. This spectrum was conducted to enlighten the young minds and some skillful knowledge out of it. The speaker Ms. J. Jasmine spoke on “AI-powered drone learns extreme acrobatics ”. The speaker enlightened us with the idea that “Researchers from the Robotics and Perception Group at the University of Zurich and ETH Zurich, in collaboration with Intel, have developed a neural network training method that enables an autonomous quadrotor to fly extreme acrobatic maneuvers with only onboard sensing and computation. The quadrotor can perform maneuvers that are challenging even for the best human pilot, without any kind of external camera or motion-tracking system to help it out. The AI training is done in simulation, without the need for an additional simulation-to-real-world transfer step. The simulation environment that the researchers used was Gazebo, slightly modified to better simulate quadrotor physics. The quadrotor was trained to perform three acrobatic maneuvers plus a combo of all of them: Power Loop, Barrel Roll, and Matty Flip.” The participants had an

		<p>amazing experience in the meet and enjoyed the entire session.</p>	
3	<p style="text-align: center;">IEEE activities</p>  <p style="text-align: center;"><i>PIC: EVENT PHOTO</i></p>	<p>The IEEE CSI event, "Backend Bridges," held on 10-01-2024 conducted by St. Joseph's College of Engineering, was a comprehensive initiative aimed at enhancing participants' backend development skills using Node.js and Express.js. This dynamic event seamlessly integrated theoretical knowledge with practical experience through a guided project, led by a seasoned technical expert. Participants gained insights into server-side scripting, routing, middleware, and database integration, solidifying their understanding of backend development. Prioritizing a survey-driven approach, the event tailored content to participants' existing frontend knowledge. Beyond code implementation, it covered deployment and server-side considerations, ensuring a holistic learning experience.</p>	4

IEEE activities



PIC: EVENT PHOTO

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) ENSAV CLUB in associated with IEEE SJCE SB organized a technical event “ PICOWATT PALOOZA ” on 10-JANUARY-2024 . This exclusive event started at 1:40PM to 3:00PM with all the members of our club. The event was started with “TAMIL THAI VAZHTHU” and the event started exploring the hidden talent of our Students. This event consists of two rounds ROUND 1: FINDER TIME,ROUND 2: CHOOSE ME The rules of the event were explained before each round. Participants with higher score were shortlisted for further rounds and finally we declare top three winners. They were honoured with e-certificates for their outstanding contributions during the event. The event continued with the enthusiasm of our students.

IEEE activities

The image displays an event poster for a webinar titled "FEARLESSFEMME" and a screenshot of a Gmeet session. The poster, on the left, is for a webinar on "STREET SURVIVAL FOR GIRLS-WALK WITHOUT FEAR" presented by IEEE St. Joseph's College of Engineering. The speaker is Lt.Col.Rohit Mishra, Founder of Mission Fight Back, Former Army Officer, and TEDx speaker. The event is scheduled for 6:00 PM - 7:00 PM on JAN 11, 2024, via G-MEET. A banner at the bottom of the poster reads "The Choice of Disciplined Toppers". To the right of the poster is a vertical memento for Lt.Col.Rohit Mishra, acknowledging his role as a speaker for the "FEARLESSFEMME" webinar. Below the poster is a screenshot of a Gmeet session with six participants: Rohit Mishra, Kanimozhi G, HARINI GOPAL, Shamrutha J A EE, Jaison Alexander, and Alshwarya T S.

PIC: EVENT POSTER


IEEE WIE SJCE SB -AG in association with IEEE St. Joseph's College of Engineering student chapter conducted a webinar session "FEARLESSFEMME" on 11-01-2024 on behalf of National Army Day. The topic for the session was "Street survival for girls-Walk without fear" presented by Lt.Col.Rohit Mishra, Founder of Mission fight back, TEDx speaker. Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering participated. Certainly, the session was not only informative but also inspiring, providing the participants with valuable insights and knowledge. His dedication to empowering individuals, particularly girls, shone through every word, leaving a lasting impression on all who attended. Approximately 30+ students took part in this event over Gmeet. The participants were rewarded with E-certificates as a token of appreciation -Memento was awarded to the speaker by the end of the session.

IEEE activities

The poster features the St. Joseph's Group of Institutions logo (30th anniversary) and IEEE SPECTRUM logos. The main text reads: "Department of Electrical and Electronics Engineering In association with IEEE STUDENT BRANCH CHAPTER COVER TO COVER IEEE Spectrum Reading On the topic AI-POWERED DRONE LEARNS EXTREME ACROBATICS". The event is scheduled for 6:30 - 7:30 PM on 12th January 2024, with a Google Meet link: <http://meet.google.com/qdm-brac-qra>. A portrait of the speaker, Jasmine J III-EEE, is shown. At the bottom, there are logos for St. Joseph's College of Engineering and St. Joseph's Institute of Technology, along with the slogan "The Choice of Disciplined Toppers". A section titled "MAIN COMPONENTS OF DRONE" includes images of a drone frame and propellers/motors, and a screenshot of a drone control interface.

PIC: EVENT POSTER

IEEE Spectrum, is the world's largest professional organisation devoted to engineering and the applied sciences. It contains peer-reviewed feature articles pertaining to technology and science trends affecting business and society. This spectrum was conducted to enlighten the young minds and some skillful knowledge out of it. The speaker Ms. J. Jasmine spoke on "AI-powered drone learns extreme acrobatics". The speaker enlightened us with the idea that " Researchers from the Robotics and Perception Group at the University of Zurich and ETH Zurich, in collaboration with Intel, have developed a neural network training method that enables an autonomous quadrotor to fly extreme acrobatic maneuvers with only onboard sensing and computation. The quadrotor can perform maneuvers that are challenging even for the best human pilot, without any kind of external camera or motion-tracking system to help it out. The AI training is done in simulation, without the need for an additional simulation-to-real-world transfer step. The simulation environment that the researchers used was Gazebo, slightly modified to better simulate quadrotor physics. The quadrotor was trained to perform three acrobatic maneuvers plus a combo of all of them: Power Loop, Barrel Roll, and Matty Flip." The participants had an

		<p>amazing experience in the meet and enjoyed the entire session.</p>	
7	<p style="text-align: center;">IEEE Activities</p>  <p style="text-align: center;"><i>PIC: EVENT PHOTO</i></p>	<p>On January 13, a comprehensive meeting was held, bringing together the office bearers of IEEE St. Joseph's College of Engineering Student Branch Chapter. The gathering included chairs, vice chairs, secretaries, and joint secretaries from all societies affiliated with the chapter. The meeting aimed to facilitate communication and collaboration among the leadership, fostering a cohesive environment for effective functioning of the various societies within the IEEE student branch</p>	4

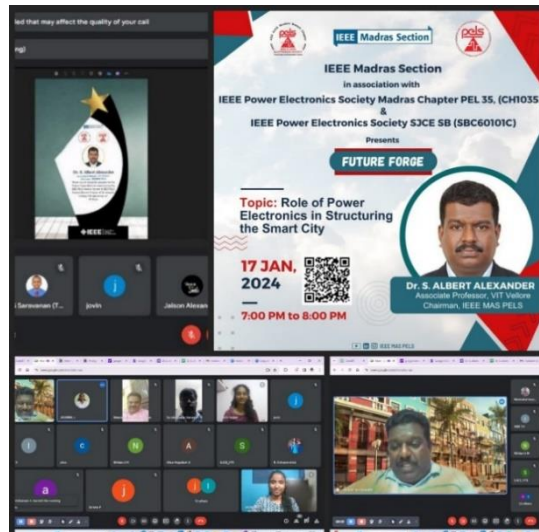


IEEE Activities

PIC: EVENT PHOTO

The IEEE Photonics Society Of St. Joseph's College Of Engineering Conducted 'TechTrove', a technical online mode webinar for 3rd and 4th year EEE students, on January 16, 2024. The event aimed to inspire and motivate students to explore in the field of Pitch My tech and foster collaboration among enthusiasts and featured a keynote address by Ms.Katharina Boguslawski, a Physicist, Pitch Trainer at happy business moves Trier, Germany,highlighting the significance of Pitch My Tech. The event saw the cumulative participation of 15 students over the Gmeet. The session was generally well received by the participants and was very informative. Participants were also allowed to interact with the speaker and get answers to their queries regarding Pitch My tech and IEEE as a whole. E-Certificates were provided to all who participated in the event.

IEEE activities



PIC: EVENT POSTER


IEEE Power Electronics Society Madras Chapter PEL 35 (CH10352), in collaboration with IEEE Power Electronics Society SJCE SB (SBC60101C), organized a webinar session “FUTURE FORGE” on January 17, 2024. The topic for the session was “Role of Power Electronics in Structuring the Smart City,” presented by Dr. S. Albert Alexander. Students and staff from the final year, pre-final year, and second year of the Department of Electrical and Electronics Engineering and other college students and staff participated. The session aimed to delve into emerging trends, innovations, and challenges in the field of power electronics, offering a platform for knowledge exchange and networking among professionals, researchers, and enthusiasts. Approximately 30+ participants took part in this event on Gmeet. The participants were rewarded with e-certificates as a token of appreciation. A memento was awarded to the speaker by the end of the session.

IEEE activities



PIC: EVENT POSTER

Brief descriptionThe IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a webinar event "Arinthu kollungal" related to Tamil literature on 17th January 2024 The event was conducted in online mode. Overall, 25 people submitted their response for the event .the webinar speaker is dhivya Prabha N. and the webinar topic about Pongal background and lead.The student coordinators for this event are Deepika U ,Jayavarshini M J , Abinaya Priya R A , Shiva D Sunil Kumar M.

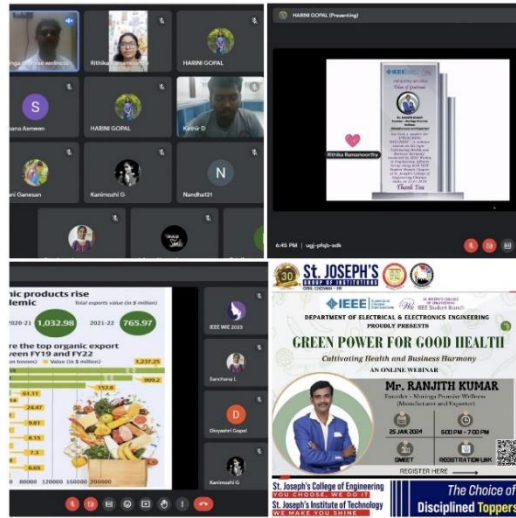
<p>1</p>	<p style="text-align: center;">IEEE activities</p> <div style="text-align: center;">  </div> <p style="text-align: center;"><i>PIC: EVENT PHOTO</i></p>	<p>The IEEE SJCE SB Maanavar Mandram of St. Joseph’s College of Engineering conducted a webinar event “Arinthu kollungal” related to Tamil literature on 19th January 2024 .The event was conducted in online mode. Overall, 25 people submitted their response for the event .The webinar speaker was V.Devi Priya and the webinar topic was about Tamil Society and Culture.The student coordinators for this event are Deepika U ,Jayavarshini M J , Abinaya Priya R A , Shiva D Sunil Kumar M.</p>	<p style="text-align: center;">4</p>
<p>1</p>	<p style="text-align: center;">IEEE activities</p>	<p>The IEEE Power and Energy Society of St. Joseph’s College of Engineering in association with IEEE R10 PES Student Chapter Committee organized an event titled "IEEE 2024 PES HPSBCP," providing a valuable opportunity for PES student chapters to secure funding, with a maximum grant of \$1000. The event, held on January 21, 2024, was led by Mr. Rishi Kant Thakur, Chair of IEEE R10, who shared insights on seizing funding opportunities within Region 10. During the event, Mr. Thakur comprehensively discussed the funding</p>	<p style="text-align: center;">4</p>



PIC: EVENT POSTER

application process, highlighting essential details to be filled out and outlining the eligibility criteria. His guidance aimed to address any uncertainties among student chapters under Region 10, fostering a better understanding of the application requirements. The session proved instrumental in equipping attendees with the necessary knowledge to pursue and successfully secure funding for their PES initiatives.

IEEE activities



PIC: EVENT POSTER

IEEE WIE SJCE SB -AG in association with IEEE St. Joseph's College of Engineering student chapter conducted a webinar session "UNLOCKING WELLNESS" on 25-01-2024. The topic for the session was "CULTIVATING HEALTH AND BUSINESS HARMONY" presented by Mr. Ranjith Kumar, an Entrepreneur, Founder of Murunga promise wellness. Students from the Final year, pre-final year, and Second year of the Department of Electrical and Electronics Engineering participated. Certainly, he discussed the rich nutritional content of Murunga leaves, emphasizing their potential positive impact on various aspects of health, such as immune system support, antioxidant properties, and overall well-being. The detailed view likely covered aspects like vitamins, minerals, and other bioactive compounds present in Murunga leaves contributing to their wellness-promoting effects. Approximately 20+ students took part in this event over Gmeet

IEEE activities

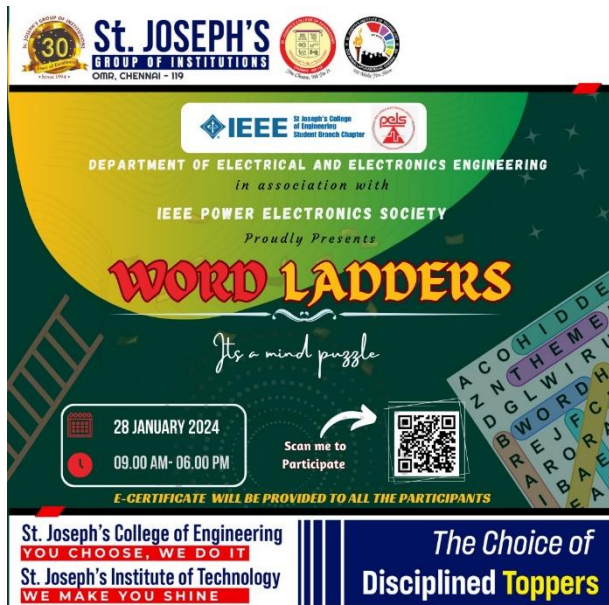


PIC: EVENT

POSTER

The IEEE PELS Society, in collaboration with the IEEE Student Branch Chapter of St. Joseph's College of Engineering, organized "TECHTRIVIA," an online technical quiz event held on 26th January 2024. Around 20 students participated, showcasing their knowledge in various technical domains such as power electronics, energy systems, and control systems. The event comprised multiple rounds, each focusing on specific technical areas, conducted through a user-friendly online platform. Winners were recognized for their outstanding performance, making TECHTRIVIA a successful and engaging initiative in promoting academic excellence and fostering a sense of community within the technical student body.

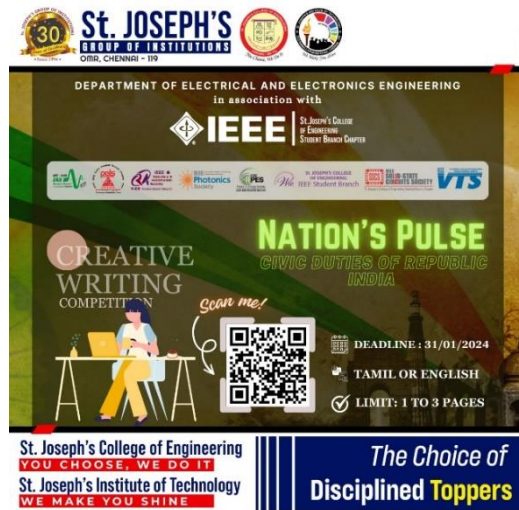
IEEE activities



PIC: EVENT POSTER

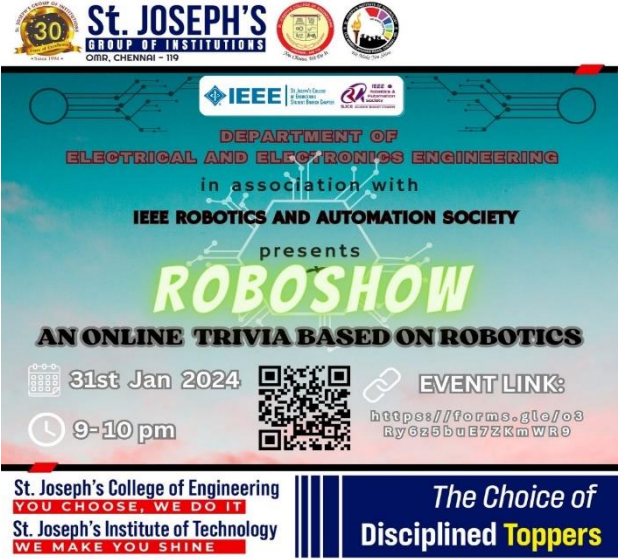
On January 28, 2024, the IEEE Power Electronics Society, in partnership with St. Joseph's College of Engineering, orchestrated a highly successful “**WORD LADDERS**” Mind Puzzle Event from 9:00 AM to 6:00 PM. The event, designed to cultivate intellectual excitement and challenge, attracted enthusiastic participants from diverse locations. Attendees engaged in a day-long exploration of linguistic prowess and problem-solving skills, navigating through intricate word puzzles that tested their vocabulary and analytical thinking. The collaboration between the organizing entities ensured a seamless virtual experience, culminating in the recognition of top performers with prizes and fostering a sense of community within the power electronics enthusiasts. The event's resounding success is attributed to the dedication of participants, organizers, and sponsors, making it a memorable and intellectually enriching experience.

IEEE activities



PIC: EVENT POSTER

The IEEE Student Branch Chapter of St. Joseph's College of Engineering wrapped up its Nation's Pulse: Civic Duties of Republic India essay competition with 20 enthusiastic participants. Submissions, in English or Tamil, showcased creative reflections on India's civic duties within a concise 1 to 3-page PDF format. Winners received merit certificates, and all participants were acknowledged with e-certificates.

<p style="text-align: center;">IEEE activities</p>  <p style="text-align: center;"><i>PIC: EVENT POSTER</i></p>	<p>IEEE Robotics and Automation Society in associated with IEEE St. Joseph's College of Engineering organized a Trivia event “ROBOSHOW” on the topic of “ONLINE TRIVIA BASED ON ROBOTICS ” .The motive of this Trivia was learn the new automation technology among the students and we hope the motive achieved at the end of the Trivia .This session was conducted on 31st January 2023 at 4pm. In this trivia and practice sessions also provided. Over 27 participants from II ,III,IV year of EEE were actively participated. E-Certificate were provided to all the active participants.</p>	4
<p style="text-align: center;">Club activities</p>	<p>St. Joseph's College of Engineering, (Electrical & Electronics Engineering) SOCIAL AWARENESS CLUB in association with IEEE SJCE SB organized a technical event “ZENITHZEST SPECTRA” on 30st JANUARY 2024. This exclusive event started at 1.40 with all the members of our club. The event was started with full enthusiasm by exploring the hidden talents of the students . This event consists of two round.The rules of the event were explained before each round.Participants with higher score were shortlisted for further</p>	4



PIC: EVENT PHOTO

rounds and finally we declare top two winners. They were honoured with certificates for their outstanding contributions during the event. The event continued with the enthusiasm of our students. The program ended with a photo session.

Club Activities



St. Joseph's College of Engineering, (Electrical & Electronics Engineering) CHOPPERS CLUB in associated with IEEE SJCE SB organized a technical event “**ELECTRICA EUPHORIA**” on 31th JANUARY 2024. This exclusive event started at 1:40PM with all the members of our club. The event was started with full enthusiasm by exploring the hidden talents of the students . This event consists of two round .The rules of the event were explained before each round. Participants with higher score were shortlisted for further rounds and finally we declare top two winners. They were honoured with

PIC: EVENT PHOTO

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

2




Club Activities

PIC: EVENT PHOTO

St. Joseph's College of Engineering, (Electrical & Electronics Engineering ELECTRICAL CLUB in association with IEEE SJCE SB organized a technical event "DYNAMICA 2.0 "on 05/01/2024. This exclusive event started at 12:20 PM with all the members of our club. The event was started with "TAMIL THAI VAZHTHU" and the event started exploring the hidden talent of our Students .Abiding the famous quote "Talent hits a target no one else can hit; Genius hits a target no one else can see" the event started exploring the hidden talent of our students through this event. The rules of the event were explained before the event

4

		<p>starts. Participants with higher score were shortlisted for further rounds and finally we declare top three winners. They were honoured with Merit certificates for their outstanding contributions during the event. The event continued with the enthusiasm of our students.</p>	
2	<p style="text-align: center;">Club Activities</p>  <p style="text-align: center;">PIC: EVENT PHOTO</p>	<p>The "ROBOTICS CLUB" at St. Joseph's College of Engineering, specializing in Electrical & Electronics Engineering in associated with IEEE SJCE SB hosted a technical event "ELECTROBOTS" on JAN 12, 2024. The event commenced at 1:40pm with all the members of the club and concluded at 3:00 pm with a photo session. ROUND 3: FUNJAM The event's, rules were outlined prior to its commencement. Participants with the highest scores progressed to subsequent rounds and ultimately, we announced the top three</p>	4

winners. These outstanding contributors were recognized with Merit certificates at the event's conclusion. The program concluded with a photo session.

2

VOCABULARY TEST SERIES



PIC: EVENT POSTER

Our department of Electrical and Electronics Engineering, Lingual Clique club has organized word power vocabulary test series for the students. The test series helped the students to improve their communication skills.

Test 18 - 5/1/24

Test 19 - 26/1/24

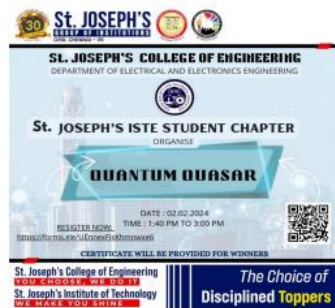
2	<p style="text-align: center;">Alumini Interaction</p>  <p style="text-align: center;"><i>PIC: EVENT POSTER</i></p>	<p>Our department of Electrical and Electronics Engineering, Lingual Clique club in association with Alumni Team has organized “Aptitude Crash Course” for third year students on 14/01/2024. Our alumni Mr. R. C. Naveen, (2018- 2022 Batch) Core Company Design Team Lead, HK Engineering Pvt., Ltd., gave a session on the topic “Aptitude Crash Course”. The session focused on Quantitative Aptitude required for cracking Placement Papers of various IT and Core Companies.</p>	4
2	<p style="text-align: center;">Alumini Interaction</p>	<p>On 6 th Jan 2024, a mock interview was organized for third year EEE students with the aim of improving their future presentation skills. Around 20 elite Alumni interviewed our third-year students. The event focused on key aspects such as effective communication, and gesture & posture, programming skills etc. Students were encouraged to practice clear articulation and maintain eye contact with the interviewer. Feedback was provided to help them refine their delivery and improve confidence. This initiative aimed to prepare the students for placement interview,</p>	



PIC: EVENT POSTER

equipping them with valuable skills for professional communication.

2 ISTE Student Chapter Activity



St. Joseph's College of Engineering (Electrical & Electronics Engineering) ISTE STUDENT CHAPTER” organized a technical event “QUANTUM QUASAR” on 02-02-2024. This exclusive event started at 12.20 PM with all the members of our club. The event was started with TAMIL THAI VAZHTHU. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event. Around 37 students participated in this event

	<i>PIC: EVENT POSTER</i>		
2	Faculty Development Program	<p>Participated in NPTEL-AICTE FDP titled</p> <p>1. Dr.V.Chamundeeswari- participated in 5 days International Virtual FDP on “Hybrid Education for Pedagogical Success” from 9th - 13th Jan 2024 Organised by Department of computer Science of Saveetha College of Liberal Arts and Sciences, SIMATS.</p> <p>2. Mr.T.Sriananda Ganesh participated in 8 days FDP on “ICT Integrated Evolution in Outcome Based Education” from 5th -12th Jan 2024 Organised by Department of Electrical and Electronics of AMET University.</p>	5
2	Faculty awards and recognitions	Dr.M.RameshBabu-Reviewed a paper in IEEE Access on 25.1.2024.	5
2	PLACEMENT DETAILS FOR THE MONTH OF JANUARY 2024	<p>2020-2024 Batch</p> <p>Total No of students placed = 49 Students</p> <p>Total No of Offers = 55 Offers</p>	4

		No of students having single offers = 44 No of students having Double offers = 4 No of students having Triple offers = 1 No of students having Quadruple offers = 0	
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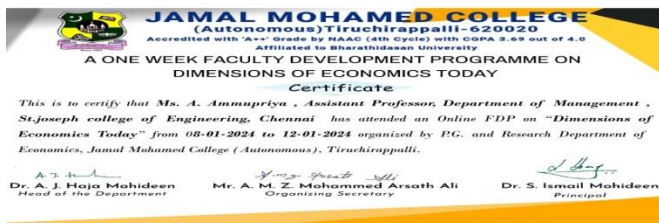
Day:

Date:

DEPARTMENT OF MBA

FACULTY PAPER PUBLICATION:	<p>Dr. J. Balamurugan has published a paper on “ An efficient wastewater collection model for groundwater resource protection in smart cities ” in Groundwater for Sustainable Development.</p> <p>Dr. G. NIRMALA has published a paper on A STUDY ON CAPITAL ASSET PRICING MODEL WITH REFERENCE TO BSE-500 Rabindra Bharati University Journal of Economics, Vol. : XXVII, No:11, 2023 ISSN : 0975-802X,</p> <p>Surenthran David. P has published a paper on INFLUENCE OF DIGITAL TRANSFORMATION ON INVESTMENTS FOR SENIOR CITIZENS: A COMPREHENSIVE STUDY Humanities and Social Science Studies, Vol. 13, Issue 1, No. 6, January – June: 2024; ISSN 2319-829X</p> <p>Dr. J. Balamurugan Has Published A Paper On An Analysis Of Hrm Based On Government And Private Sector Banks , Mukta Shabd Journal , Volume XII, Issue XI, NOVEMBER/2023, ISSN NO : 2347-3150</p>
FACULTY PATENT PUBLICATION:	<p>Dr.A.Arun has published a patent on The impact of e-Commerce on business performance in a business to business performance.</p> <p>Dr.S.Subalya has published a patent on HR Analytics: A systematic Examination for HR Procedure.</p> <p>Dr. J. Balamurugan Has Published a patent on The impact of e-Commerce on business performance in a business to business performance.</p>

**FACULTY FDP / STTP/WORKSHOP
ATTENDED:**



Dr Subalya S, Dr.J.Balamurugan and Dr.A.Ammupriya have attended an Online FDP on “Dimensions of Economics Today” from 08-01-2024 to 12-01-2024 organized by P.G. and Research Department of Economics, Jamal Mohamed College (Autonomous), Tiruchirappalli.

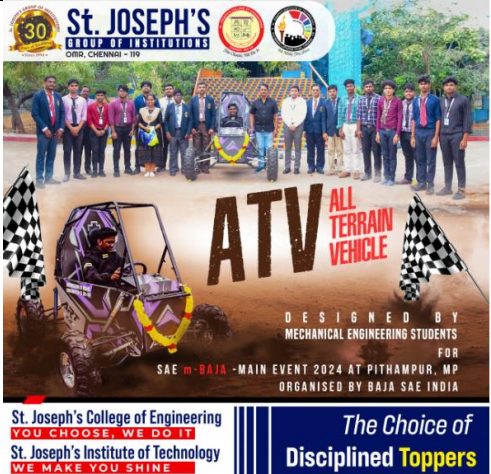

STUDENTS ACHIEVEMENTS:

STUDENTS	EVENTS	PRIZE
Reshma devi	Adzap + Block and Talk	Rs. 1000
Vishwa S Vicky James V Priyadharshini S	HR -Auction,Silver Screen,Think tank	Winners
Lavanya K Manoj Kumaran K Vishwa S Reshma devi	Best Salesmen	Runner

DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
4	FDP/Workshop/Conference	<p>Invited Talk: 1. Dr. P. Krishnan has delivered an invited talk in “Workshop on Communication skill enhancement” conducted by “ Dearaka Doss Goverdhan Doss Vaishnav College-Chennai On 02.01.2024.</p> <p>Attended: 1. Dr. A. Uma Devi, Dr. N.R. Rajagopalan attended IPR awareness/training program of “National Intellectual Property Awareness Mission (NIPAM)” at St. Joseph's College of Engineering on 08/01/2024.</p>
9	Awards/Prize won by students / Staff	<p>Reviewer: Dr. K. Jayamoorthy has acted as reviewer for the following journals:</p> <ol style="list-style-type: none">1. Sensors and Actuators B: Chemical2. Journal of Clinical and Diagnostic Pathology3. Current Organic Chemistry4. Chemical Physics Impact
11	Publications(only published) details	<p>1. Dr. S.M. Prakash published a patent titled “Synthesis And Characterization Of Diphenylmethane-Indole Derivatives With Antioxidant Activity Assisted By Microwave” Publication number 02/2024 dt. 12.01.2024</p>

DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	 <p>The poster for the SAE m-BAJA Main Event 2024 at Pithampur, MP, organized by BAJA SAE India. It features a group of students and a purple and yellow ATV. Text on the poster includes: '30 St. JOSEPH'S GROUP OF INSTITUTIONS CHIRP, CHENNAI - 119', 'ATV ALL TERRAIN VEHICLE', 'DESIGNED BY MECHANICAL ENGINEERING STUDENTS FOR SAE m-BAJA - MAIN EVENT 2024 AT PITHAMPUR, MP ORGANISED BY BAJA SAE INDIA', and 'St. Joseph's College of Engineering YOU CHOOSE, WE DO IT St. Joseph's Institute of Technology WE MAKE YOU SHINE The Choice of Disciplined Toppers'.</p>	<ul style="list-style-type: none"> ➤ A Team of Mechanical Students (25 Nos.) from second, third, final year participated in the SAE m-BAJA-Main Event at Pithampur organized by BAJA SAE India.
2	 <p>The poster for an expert talk by Mr. Sritharanandh G, Regional Sales Manager at Kemppt India. It features a portrait of Mr. Sritharanandh G. Text on the poster includes: '30 St. JOSEPH'S GROUP OF INSTITUTIONS CHIRP, CHENNAI - 119', 'IIW-India Students' Chapter St. Joseph's College of Engineering', 'Proudly presents Technical talk by Expert', 'THE INDIAN INSTITUTE OF WELDING (A Member Society of the International Institute of Welding)', 'ADVANCEMENTS IN THE ARC WELDING POWER SOURCES', 'Mr. Sritharanandh G, Regional Sales Manager Kemppt India', 'KEMPTI', '31st January, 2024 10 am Venue: Audio Visual Hall', 'Event by: Department of Mechanical Engineering', and 'St. Joseph's College of Engineering YOU CHOOSE, WE DO IT St. Joseph's Institute of Technology WE MAKE YOU SHINE The Choice of Disciplined Toppers'.</p>	<ul style="list-style-type: none"> ➤ An Expert Talk on 'Advancements in Arc Welding Power Sources' was organized by the IIW-India Student Chapter. Mr. Sritharanandh G, Regional Sales Manager at Kemppt India, was invited to deliver the talk."
3	<p>Paper Published</p>	<ul style="list-style-type: none"> ➤ G.M. Lionus Leo, Ravikumar Jayabal, D. Srinivasan, M. Chrispin

		<p>Das, M. Ganesh, Thodda Gavaskar, “Predicting the performance and emissions of an HCCI-DI engine powered by waste cooking oil biodiesel with Al₂O₃ and FeCl₃ nano additives and gasoline injection – A random forest machine learning approach”, <i>Fuel</i></p>
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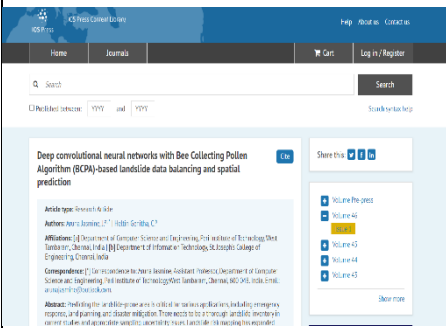
DEPARTMENT OF INFORMATION TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

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

Corresponding remarks in regarding the status of activity execution

1.



Co-author

C Heltin Genitha

Published a paper in Scopus Indexed Journal

Staff Paper Publication

Aruna Jasmine, J. and Heltin Genitha, C. “Deep Convolutional Neural Networks with Bee Collecting Pollen Algorithm (BCPA)-based Landslide Data Balancing and Spatial Prediction”. Journal of Intelligent & Fuzzy Systems, Print ISSN: 1064-1246, Online ISSN: 1875-8967, doi: 10.3233/JIFS-234924, Vol. 46, No. 1, pp. 597-617, 10 January 2024 **(Impact factor: 1.737, Indexed in Scopus).**

Abstract: Predicting the landslide-prone area is critical for various applications, including emergency response, land planning, and disaster mitigation. There needs to be a thorough landslide inventory in current studies and appropriate sampling uncertainty issues. Landslide risk mapping has expanded significantly as machine learning techniques have developed. However, one of the primary issues in Landslide Prediction is data imbalance (DI). This is problematic since it is challenging or expensive to generate an accurate inventory map of landslides based on previous data. This study proposes a novel landslide prediction method using Generative Adversarial Networks (GAN) for generating the synthetic data, Synthetic Minority Oversampling Technique (SMOTE) for overcoming the data imbalance problem, and Bee Collecting Pollen Algorithm (BCPA) for feature extraction. Combining 184 landslides and ten criteria, including topographic wetness index (TWI), aspect, distance from the road, total curvature, sediment transport index (STI), height, slope, stream, lithology, and slope length, a geographical database was produced. The data was generated using GAN, a Deep Convolutional Neural Network (DCNN) technique to populate the dataset.

2.

Divya J, Chandrasekar A, “SloV-FTFSA-CAOA: a fuzzy trust-based approach for enhancing security and energy efficiency in social internet of vehicles”. Wireless Network, Print ISSN:1022-0038, Online ISSN: 1572-8196, doi.org/10.1007/s11276-023-03626-9, 2024. **(Impact factor: 3.73, Indexed in Scopus).**

The Social Internet of Vehicles (SloV) is an emerging network that interconnects vehicles and generates vast amounts of data concerning social relationships, chauffeurs, commuters, as well as surrounding conditions. However, security is a major concern in SloV networks, especially during data transmission. In order to solve this problem, we propose a novel approach called SloV-FTFSA-CAOA, which stands for

[Divya Jegatheesan](#)  & [Chandrasekar Arumugam](#)
25 Accesses [Explore all metrics](#) →

Abstract

The Social Internet of Vehicles (SIoV) is an emerging network that interconnects vehicles and generates vast amounts of data concerning social relationships, chauffeurs, commuters, as well as surrounding conditions. However, security is a major concern in SIoV networks, especially during data transmission. In order to solve this problem, we propose a novel approach called SIoV-FTFSA-CAOA, which stands for Social Internet of Vehicles—Fuzzy-based Trustworthy Friendship Selection Algorithm—Crossover-

<https://doi.org/10.1007/s12700-024-10627-1> in: to enhance security in SIoV networks. The

Author

Divya Jegatheesan

Published a paper in Scopus
Indexed Journal

Social Internet of Vehicles—Fuzzy-based Trustworthy Friendship Selection Algorithm—Crossover-boosted Arithmetic Optimization Algorithm, to enhance security in SIoV networks. The proposed method uses fuzzy logic to map input factors to an output trust score, indicating the level of trust between vehicles. The Crossover-boosted Arithmetic Optimization Algorithm is used to identify communities based on modularity measure values that indicate the quality of community structures. The highest trust value selection algorithm is then used to select trustworthy friends in each community based on high trust scores, ensuring secure communication. The Road Aware Geographical Routing protocol is utilized to establish the routing path between vehicles, and the Battery Model-based Energy Computation method is used to estimate the consumption of energy to the established path.

3.

Conferences > 2023 International Conference...

Automated Framework for the Tuberculosis Detection and Classification in X-Ray Images Using Deep Learning Algorithm

Publisher: IEEE [Cite This](#) [PDF](#)

C. Heltin Genitha ; I. Kalaivani ; A.S. Hepsi Ajibah ; S. Jalagandeswaran ; K. Balamurugan [All Authors](#)

26 Full Text Views

Abstract **Abstract:**
This study focuses on utilizing deep learning algorithms to detect Tuberculosis (TB) through the examination of chest radiograph (X-ray) images. The primary goal of this research study is to develop and demonstrate a Convolutional Neural Network (CNN)

Authors

C Heltin Genitha,

AS Hepsi Ajibah,



S Jalagandeswaran,

K Balamurugan

Staff and Student Paper Publication

C Heltin Genitha, I Kalaivani, AS Hepsi Ajibah, S Jalagandeswaran, K Balamurugan. “Automated Framework for the Tuberculosis Detection and Classification in X-Ray Images Using Deep Learning Algorithm” International Conference on Self Sustainable Artificial Intelligence Systems, ICSSAS 2023, pp. 215-220, doi: 10.1109/ICSSAS57918.2023.10331715, Electronic ISBN:979-8-3503-0085-7, Print ISBN:979-8-3503-0086-4, December 2023(**Indexed in Scopus**)

Abstract: This study focuses on utilizing deep learning algorithms to detect Tuberculosis (TB) through the examination of chest radiograph (X-ray) images. The primary goal of this research study is to develop and demonstrate a Convolutional Neural Network (CNN) based method specifically designed for the TB detection in chest images. The algorithm developed comprises of three key stages: pre-processing, feature extraction, and classification. During the initial pre-processing stage, the input chest X-ray image undergoes normalization and resizing operations to establish a standardized and consistent fixed size. This step aims to enhance the uniformity and comparability of the images. The CNN technique is utilized to automatically identify desirable characteristics from the X-ray of chest image during the feature extraction step. The chest X-ray image is classified as tuberculosis positive or negative during the classification step using the retrieved features. The findings of this study could enhance the precision and speed of tuberculosis detection utilising chest X-ray imaging. The proposed algorithm has the potential to assist healthcare professionals in the early and accurate detection of TB.

<p>4.</p>  <p>Artificially Intelligent Operating System with Sapi5 Voice Recognition Engine</p> <p>Publisher: IEEE</p> <p>S. Sumathi ; N. Nivetha ; J. Princy Jovita All Authors</p> <p>12 Full Text Views</p> <p>Abstract A machine's or computer's intelligence is used by an artificial intelligence operating system to manage computer hardware and software and offer common services for the computer, allowing it to tackle difficult issues with ease. AIOS is a humanoid system that performs various activities to satisfy the needs of the user. They can gather the inputs from the user using voice to text conversion and provide the desired output. The system is developed in such a way that it can show you the date & time, conversion of voice into text, can play music according to the user's request, can tell a joke and can answer to the user's questions, can search, and show the results in google, YouTube, Wikipedia and it can also perform the power operations. Artificial Intelligence encompasses a range of fields, including Intelligent Systems, Fuzzy Logic Systems, Natural Language Processing, Expert Systems, and Artificial Neural Networks. Together, these technologies can be harnessed to create an Artificially Intelligent Operating System that simplifies the adoption of new techniques and proves invaluable in our daily lives. This also helps physically challenged people to utilize and gain easier access to resources.</p> <p>Authors</p> <p>S. Sumathi</p> <p>N. Nivetha</p> <p>J. Princy Jovita</p>	<p>S. Sumathi, N. Nivetha and J. Princy Jovita, "Artificially Intelligent Operating System with Sapi5 Voice Recognition Engine," 2023 9th International Conference on Smart Computing and Communications (ICSCC), Kochi, Kerala, India, 2023, pp. 477-481, doi: 10.1109/ICSCC59169.2023.10334967, Electronic ISBN:979-8-3503-1409-0, Print ISBN:979-8-3503-1410-6, 06 December 2023. (Indexed in Scopus)</p> <p>Abstract: A machines or computer's intelligence is used by an artificial intelligence operating system to manage computer hardware and software and offer common services for the computer, allowing it to tackle difficult issues with ease. AIOS is a humanoid system that performs various activities to satisfy the needs of the user. They can gather the inputs from the user using voice to text conversion and provide the desired output. The system is developed in such a way that it can show you the date & time, conversion of voice into text, can play music according to the user's request, can tell a joke and can answer to the user's questions, can search, and show the results in google, YouTube, Wikipedia and it can also perform the power operations. Artificial Intelligence encompasses a range of fields, including Intelligent Systems, Fuzzy Logic Systems, Natural Language Processing, Expert Systems, and Artificial Neural Networks. Together, these technologies can be harnessed to create an Artificially Intelligent Operating System that simplifies the adoption of new techniques and proves invaluable in our daily lives. This also helps physically challenged people to utilize and gain easier access to resources.</p>
<p>5</p>  <p>Improved Email Spam Detection Using Integrated Approach of BiGRU-A-LSTM Approach</p> <p>Publisher: IEEE</p> <p>Ragesh T. S. ; A. Tamizhselvi ; Harshal Patil ; Varsha Mittal ; S. Kaliappan ; Ramiya Maranan All Authors</p> <p>12 Full Text Views</p> <p>Abstract In today's world, email is used by nearly everyone. It has been called the most efficient, widely used, and low-cost method of communication currently available. However, the widespread use of email has been hampered by the proliferation of unwanted and potentially fraudulent messages that must be quickly identified and isolated using a spam detection system. Spam identification is crucial for the safety of email users and for avoiding the many harmful applications to which email has been put recently. There is a pressing need for improved spam detection techniques due to the adaptive nature of unsolicited emails that are sent through mailing programmes, which has severely reduced and</p> <p>Co-author</p> <p>A. Tamizhselvi,</p> <p>Published a paper in Scopus</p>	<p style="text-align: center;"><u>Staff Paper Publication</u></p> <p>R. T S, A. Tamizhselvi, H. Patil, V. Mittal, S. Kaliappan and R. Maranan, "Improved Email Spam Detection Using Integrated Approach of BiGRU-A-LSTM Approach," 2023 International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS), Erode, India, 2023, pp. 1-6, doi: 10.1109/ICSSAS57918.2023.10331890, Electronic ISBN:979-8-3503-0085-7, Print ISBN:979-8-3503-0086-4, 06 December 2023. (Indexed in Scopus)</p> <p>Abstract: In today's world, email is used by nearly everyone. It has been called the most efficient, widely used, and low-cost method of communication currently available. However, the widespread use of email has been hampered by the proliferation of unwanted and potentially fraudulent messages that must be quickly identified and isolated using a spam detection system. Spam identification is crucial for the safety of email users and for avoiding the many harmful applications to which email has been put recently. There is a pressing need for improved spam detection techniques due to the adaptive nature of unsolicited emails that are sent through mailing programmes, which has severely reduced and</p>

sometimes rendered the efficiency of existing spam detection methods. Despite the fact that several algorithms for detecting spam have been presented and tested, the reported accuracy indicates that further research is needed in this area. Preprocessing, feature selection, and model training are all used in the suggested method. Preprocessing makes use of tools like HTML tag removal, stop word removal, Tokenization, and word frequency. Feature selection is performed using TF-IDF. CNN-A-BiLSTM is utilized for model training. The proposed method has superior results to those of LSTM and BiLSTM, two well-established alternatives.

6

FDP/Workshop attended by Faculty



Sample FDP Certificate


S.No	Title of the topic	Name of the Staff	Conducted By	Date
1.	Hybrid Education for Pedagogical Success	G. Sathyadevi D.Jeya Priya G.Supraja E. Elakkiya M.Nandhini	Saveetha College of Liberal Arts and Sciences, SIMATS	09-01-24 to 13-01-25 (5 days)
2.	Research Methodology	G. Sathyadevi	Yashwantrao Chavan College Ambajogai, Maharashtra	16-01-24 (1 day)

			3.	Emerging Trends in Artificial intelligence and deep learning	E. Elakkiya G. Sathyadevi	Sri Sairam institute of technology	26-12-2023 to 30-12-2023 (5 days)
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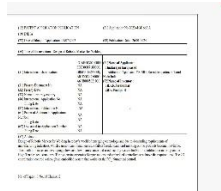
DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	Publications (only published) details	<ul style="list-style-type: none">• Thenmozhi, S, Published a paper titled Sujatha, A., “Predicting and forecasting building energy performance using RSM and ANN” Asian Journal of Civil Engineering, 2024, 25(1), pp. 159–165, January 2024.

DEPARTMENT OF MATHEMATICS AND ENGLISH

Events	Remarks						
FDP/Workshop/Conference							
	S.No	Name of the staff	Title of FDP / Workshop	Organized by	Mode	From	To
	1	Dr.P.Chellamani	FDP on Building Advanced Data Analytics Applications with Cloud	Next Gen Employability Program	Online	08-01-2024	12-01-2024
	2	Dr. J. Nancy	Drafting project proposals, Exploring funding opportunities and Mastering the Art of journal paper presentation (Workshop)	Saveetha School of Engineering	Physical	20-01-2024	20-01-2024
Publications(only published) details	<ol style="list-style-type: none"> 1. S. Govardhan, S. Roy, S. Prabhu, M. Arulperumjothi, Topological characterization of cove-edged graphene nanoribbons with applications to NMR spectroscopies, Journal of Molecular Structure, Volume 1303, 2024, 137492,ISSN 0022-2860, https://doi.org/10.1016/j.molstruc.2024.137492. (SCIE) 2. Prakash A & S. Sarayu Priyadharshini & Abirami T & Giriraj Kiradoo & Bairavi B & Mariappan B & Priyadarshini M.C. & P. Jayakumar & Saravana Selvakumar. R & S. Janneker Lawrence Daniel, 2024. "An Examination of the Diverse Interpretations of the Epic through the Paradigm of Queer Theory and the Contradiction of the Self and Society," World Journal of English Language, Sciedu Press, vol. 14(1), pages 484-484, January. (SCOPUS) 3. Rajiniganth P, Aparna T, Ilyas Khan, Suresh K; More generalized k^ϵ-Fibonacci sequence, series, and its applications. <i>AIP Advances</i> 1 January 2024; 14 (1): 015233. https://doi.org/10.1063/5.0180627 (SCOPUS) 						

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail					
I	Patent	S.No	Faculty Name	Published date	Title	Type (patent Or copyrights)	Proof
		1.	Dr.R.Sivakumar	26/01/2024	Design of Robotic Marker for Welding	Patent	
		2.	R.Kotteeswaran	26/01/2024	Firm Ware Vulnerability Spoofing Attacks Persistent Control Detection Using Machine Learning Supervi	Patent	