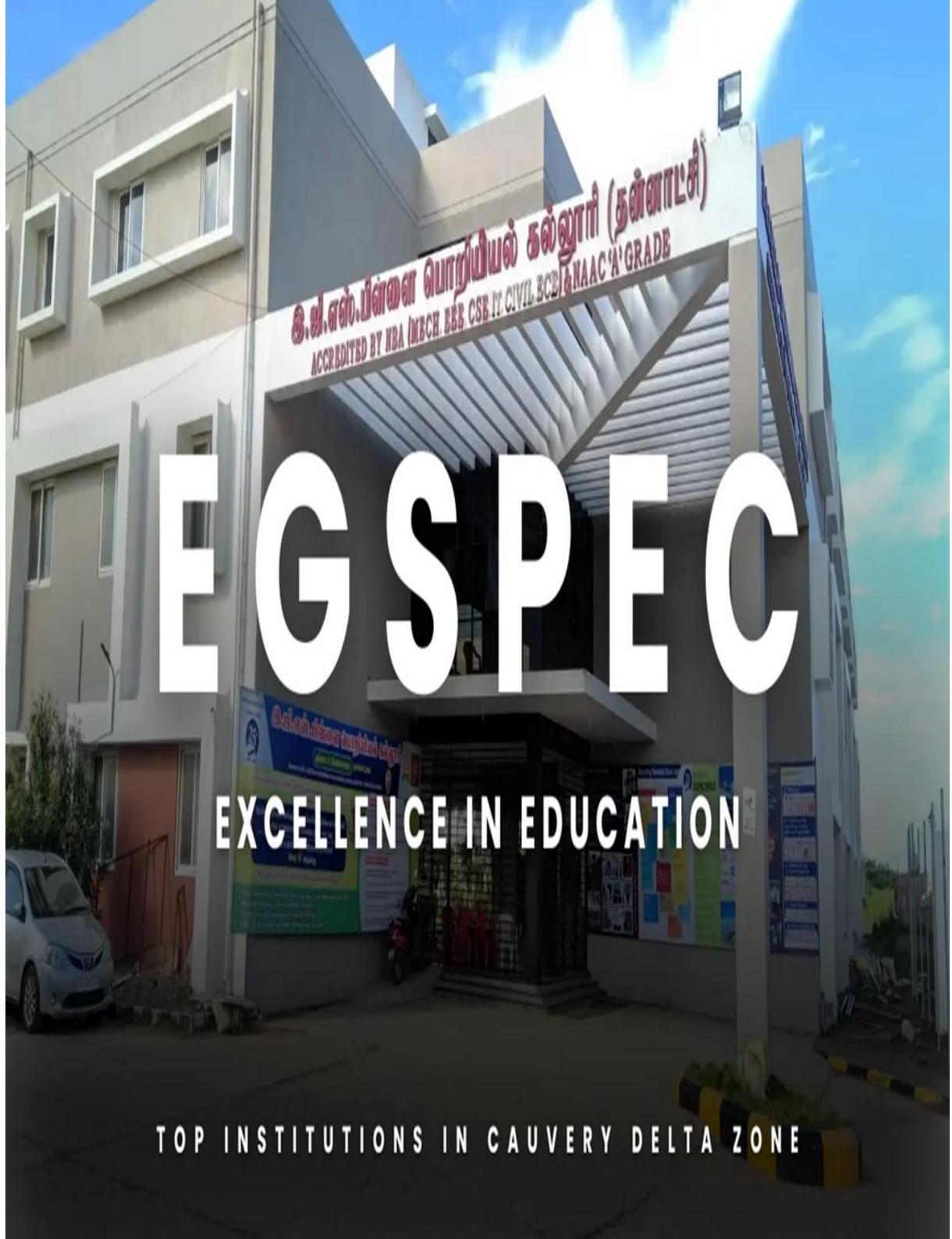


EGSPEC EXPRESS

Bi Monthly Newsletter

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

STAFF ACHIEVEMENT:

Dr. J. Amutha, an Assistant Professor in AI and Data Science, published a paper titled "An Approximate Algorithm to Improve Coverage and Increase Lifetime of WSNs" on October 8, 2024, with Springer ¹. This research focuses on enhancing the performance of Wireless Sensor Networks (WSNs) by developing an algorithm that optimizes coverage and prolongs network lifetime.

STUDENT ONLINE INTERNSHIPS & SPORTS:

Pavalam biga S successfully completed a Data Analytics Internship at Codetech IT Solutions, Hyderabad, from October 5, 2024, to November 5, 2024, and received a certificate for her accomplishments.



Ahamed Rilwan M K was part of the winning Football Men's Team at the Anna University Zone 15 tournament, held on October 4, 2024

PAPER PRESENTATION AND WORKSHOP:

Siranjeevi M emerged victorious in a Social Media Contest held at E.G.S. Pillay Engineering College, Nagapattinam, on October 10, 2024, and took home a cash prize of ₹5,000.

Kaviya S and Subitcha S secured the First Prize in a Paper Presentation competition held at Bon Secours College for Women, Mannarkudi, on October 7, 2024.

Devadharsini V participated in a One-Day Workshop on "Exploring the Power of Java - An Interview Perspective" held at A.V.C. College of Engineering, Mannampandal, on October 18, 2024, and received a participation certificate.

Nithyasri B, Pavalam biga S, and Shalini S secured the Second Prize in a Paper Presentation competition held at Kings College of Engineering, Pudukkottai, on October 18, 2024.

Darshana P, Dharani S, and Keerthi S participated in a Paper Presentation event held at Kings College of Engineering, Pudukkottai, on October 23, 2024, and received participation certificates. Additionally, they were awarded a 2-month internship letter at RubeElix Company.

K. Shahana, R. Rajeshwari, and B. Fahumitha Afrose secured the Third Prize in an Idea Presentation competition held at Kings College of Engineering, Pudukkottai, on October 25, 2024.

Darshana P, Dharani S, and Keerthi S won the First Prize in the Paper Expo event held at M.A.M College of Engineering, Thiruchy, on October 26, 2024.

Gopinath M and Pragathish U secured the First Prize in a Non-Technical Event held at Kings College of Engineering, Pudukkottai, on October 26, 2024.



EGS HACKTHON 2024-2025:

Akash R, Agatheeswaran A, Praveen Kumar S, and Naresh Kumar A secured the First Place in the EGS Hackathon 2024-2025 Prelims Round, held at E.G.S. Pillay Engineering College, Nagapattinam, on November 7, 2024.

Mohamed Safwan S, Mohammed Khalifa A, Pragathish U, and Rajavarmen E achieved the Second Place in the EGS Hackathon 2024-2025 Prelims Round, held at E.G.S. Pillay Engineering College, Nagapattinam, on November 7, 2024.

Durgadevi S, Fahumitha Afrose B, Fathima Fazlina M, Rajeshwari R, and Shahana K were recognized as Emerging Talents, securing the 5th Place in the EGS Hackathon 2024-2025 Prelims Round, held at E.G.S. Pillay Engineering College, Nagapattinam, on November 7, 2024.

Devadharsini V, Dharshini S, Madhumitha B, and Rubika M were also recognized as Emerging Talents, securing the 6th Place in the EGS Hackathon 2024-2025 Prelims Round, held at E.G.S. Pillay Engineering College, Nagapattinam, on November 7, 2024.

PRE-SYMPOSIUM EVENT - Webinar on "GENERATIVE AI" (GenEra)

A seminar was held on October 4, 2024, in an online format, with Dr. S. Palani Murugan, Academic Director Incharge, Associate Professor, and Head of AI&DS, serving as the resource person. The event was coordinated by K. Rahapriya, Assistant Professor of AI&DS, and supported by student coordinators Kaviya S (III Year, AI&DS) and Darshana P (II Year, AI&DS).



INTERNATIONAL SYMPOSIUM - ARTIWHIZ:

The program conveners for the symposium, held on October 5, 2024, were Dr. S. Palani Murugan, Academic Director Incharge, Associate Professor, and Head of AI&DS. The symposium was coordinated by Dr. J. Amutha, Assistant Professor of AI&DS, and Mrs. S. Akilandeswari, Assistant Professor of AI&DS.



SEMINAR ON NEXT - GEN CHATBOT

The program was organized on October 5, 2024, under the convenership of Dr. S. Pal Padalamurugan, Academic Director Incharge, Associate Professor, and Head of AI&DS. The event featured Dr. J. Suganya, Assistant Professor from the Department of Computer Applications at SRM Institute of Science and Technology, Trichy, as the esteemed Resource Person.

Students Zentics Club Events

The Students Zentics Club organized three events. The first event, "INFOEXPO – The Project Showcase," was held on October 12, 2024, from 11:00 am to 12:00 pm on Google Meet. The event had 61 participants and was judged by Mrs. S. Akilandeswari, Assistant Professor of AI&DS. It was organized by Noora S and club members.

The second event, "Impact Line: A Mentorship Banquet," took place on October 19, 2024, from 6:00 pm to 7:00 pm on Google Meet. The event had 65 participants and featured Mr. N. Uma Mahesh, a software developer at KGiSL and an alumnus of EGSPEC, as the resource person. It was organized by Abhisheak B, Shinas Begum M, Sivaranjani A S, and Bharathikrishnan.

The third event, "Python Data Lab Workshop," was held on November 5, 2024, from 11:10 am to 12:40 pm in SJB-203. The event had 65 participants and was organized by Dharshana P, Akash M, Jose Priyadarshini M, and Keerthi S.

Students Intellexia Club Events

The Students Intellexia Club organized three events. The first event, "Technical Contest on Visual Vibes: Cover Art Challenge," took place on October 13, 2024, from 6:00 pm to 7:00 pm on Google Meet. The event had 50 participants and was judged by Ms. K. Rahapriya, Assistant Professor of AI&DS. It was organized by Akshaya V and Subhiksha S.

The second event, "Cipher hunt: Decode the Word," was held on October 15, 2024, from 11:10 am to 12:40 pm in SJB-203. The event had 63 participants and was organized by Fahumitha Afrose B and Shahana K.

The third event, "Webinar on AI in Health Care," took place on October 27, 2024, from 11:00 am to 12:00 pm on Google Meet. The event had 70 participants and featured Mr. Imran Sait M, Director of Data & AI at Concord Technologies, as the resource person. It was organized by Jaya Dharshani R J and Agalya B.

Student Activities

Two student activities were conducted. The first activity, a seminar on "Reinforcement Learning using Computer Vision," was held on October 23, 2024, for II-year AI&DS students. The second activity, a session on "Pre-modeling data transformation methods in ML projects," took place on October 4, 2024, for III-year AI&DS students.

Industry Value Addition Course

An Industry Value Addition Course, "Mastering Power BI for Data Analytics," was conducted from October 21 to 25, 2024, for III-year AI&DS students. The course was coordinated by Mrs. S. Akilandeswari, Assistant Professor of AI&DS, and featured Vinoth Kumar from PWC, Bangalore, and Jeevanantham Sankaran from Techshiksha, Bangalore, as resource



DEPARTMENT OF BIOMEDICAL ENGINEERING

STUDENT ACHIEVEMENTS

Yalini Govindarajan received a patent for her innovative work on a medical instrument tool, specifically a Nano handheld nebulizer, on November 14.



Five students presented papers at an event held on October 25, 2024. The participants and their paper titles were:

S. Jayalakshmi and P. Sakthibala, who presented on "Removal of power line interference from ECG signal by using adaptive Filters."

U. Inisha presented on "Stem cell therapy for tissue repair" at the same event.

R. Keerthana presented on "Obstetric ultrasound imaging" on October 25, 2024.

A. Venmathi and S. Vishali presented on "Development of novel biomaterials for Wound healing application."

P. Saranya and N.G.S. Vijayalakshmi presented on "Intra aortic balloon pump" at the event held on October 25, 2024.

CLUB ACTIVITY

The Bio Med Brigade Club, mentored by Dr. A. Sundar Raj, HOD-BME, conducted five activities for BME students. The first activity, "Comprehensive Exploration of Endoscopy Techniques Application and Innovations," was held on October 2, 2024, with 50 participants attending online.

The second activity, a seminar on "A Journey to Python Basics with Coding," took place on October 23, 2024, in SJB302, with 50 students participating.

The club organized a webinar on "Hypothermic Intraperitoneal Chemotherapy (HIPEC)" on November 9, 2024, which was attended by 50 students online.

The fourth activity, "Advanced Operation Theatre Equipments in Recent Enhanced Technologies," was held on November 17, 2024, with 50 participants attending online.

The fifth activity, a webinar on "Biomedical Applications," took place on November 24, 2024, with 50 students participating online. All activities were coordinated by Mr. K. Sathiyamurthi, Assistant Professor.



The Med Tech Marvel Club, mentored by Dr. A. Sundar Raj, HOD-BME, organized its first activity, a webinar on "Biomedical Innovations & Global Opportunities: From Education to Employment," on September 7, 2024. The online event was attended by 50 BME students and was coordinated by Mr. K. Sathiyamurthi, Assistant Professor.

The club's second activity was a webinar on "Reality of Biomedical Engineering: From Education to Employment," held on September 22, 2024. This online event also had 50 participants and was coordinated by Mr. K. Sathiyamurthi.

On November 17, 2024, the club organized a webinar on "Cardiac Output and Its Measuring Techniques," which was attended by 50 BME students online. Mr. K. Sathiyamurthi coordinated the event.

The club's fourth activity was another webinar held on November 17, 2024, on "Higher Studies and Competitive Exams after B.E." This online event was also attended by 50 students and was coordinated by Mr. K. Sathiyamurthi.

Sports

S. Sandhiya had a remarkable performance in women's athletics, winning gold in the 110H and 4*100R events, as well as a silver medal in the 1500m event, all on November 24, 2024.



Program organized

The Department of Biomedical Engineering organized several programs. One such program was a Two-Day Online Faculty Development Program (FDP) on "Revolutionizing Healthcare: The Intersection of Advanced Medical Technology and Engineering." The program was convened by Dr. A. Sundar Raj, Professor and Head, and coordinated by Dr. S. Chitra, Assistant Professor. The program was held on October 24-25, 2024, and was attended by participants from various colleges.

The resource persons for the FDP included Dr. R. Venkatesan, Assistant Professor, EGSPEC/BME; Mr. Jim Hawkinson, Assistant Professor, EGSPEC/BME; Mr. Vinothkumar Kannan, M.Tech., (Ph.D), KAV Biomedical Equipment, Training & Education, Madurai; and T. Jeyasri, B.Tech., Chief Training Officer & Program Coordinator, KAV Bio medical Equipment, Training and Education, Madurai.

The second value-added course was on "Applied Testing and Calibration of Biomedical Instrumentation," held from October 14 to 18, 2024, for III-year BME students. The course was convened by Dr. A. Sundar Raj, Professor and Head, and coordinated by Mrs. S. Suganya and Ms. S. Shapnapriya, Assistant Professors. The resource person for the course was Ms. T. Jeyasri, B.Tech., Chief Training Officer & Program Coordinator, KAV Bio medical Equipment, Training and Education, Madurai.

The faculty members of the department also participated in several faculty development programs. Dr. A. Sundar Raj, Professor and Head, Dr. S. Chitra, Assistant Professor, Mr. K. Sathiyamurthi, Assistant Professor, and Mrs. S. Suganya, Assistant Professor, participated in the online FDP on "Collaborative Learning Tools for Digital Classroom" organized by NITTTR from November 18 to 22, 2024.

Mr. K. Sathiyamurthi, Assistant Professor, and Mr. S. Jim Hawkinson, Assistant Professor, participated in the offline hands-on training program on "Bioscience and Instruments" organized by Armats Biotek Training and Research Institute, Chennai, from November 18 to 22, 2024.

Dr. S. Chitra, Assistant Professor, participated in the offline AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Advancements in Semiconductor Design: From IC Flow to High-Speed Architectures and Hardware Security" organized by SASTRA Deemed University from November 11 to 16, 2024.

STAFF ACHIEVEMENTS

The Department of Biomedical Engineering is proud to announce the achievements of its faculty members in various faculty development programs. Dr. A. Sundarraj, Professor and Head, Dr. S. Chitra, Assistant Professor, Mr. K. Sathiyamurthi, Assistant Professor, and Mrs. S. Suganya, Assistant Professor, successfully completed the online Faculty Development Program on "Collaborative Learning Tools for Digital Classroom" organized by NITTTR from November 18 to 22, 2024.

Mr. K. Sathiyamurthi and Mr. S. Jimhawkinson, Assistant Professors, attended the offline hands-on training program on "Bioscience and Instruments" organized by Armats Biotek Training and Research Institute, Chennai, from November 18 to 22, 2024.

Dr. S. Chitra, Assistant Professor, participated in the offline AICTE Training and Learning (ATAL) Academy Faculty Development Program on "Advancements in Semiconductor Design: From IC Flow to High-Speed Architectures and Hardware Security" organized by SASTRA Deemed University from November 11 to 16, 2024.

Project 1: Detection of Deep Learning Models for Acute Lymphocytic Leukemia

The Tamilnadu State Council For Science And Technology (TNSCST) funded a project titled "Detection of Deep Learning Models for Acute Lymphocytic Leukemia using Segmented Blood Smear Images." Dr. A. Sundar Raj and S. Jim Hawkinson served as the Principal Investigator and Co-Investigator, respectively. The project received a proposal amount of ₹1,52,000 and primarily contributed to the field of Medical Image Processing.

Project 2: Design Optimization and Fabrication of CNT/C60 Based Thin Film Transistor

The Prime Minister Early Career Research Grant funded a project titled "Design Optimization and Fabrication of CNT/C60 Based Thin Film Transistor for Integrated Detection of Maternal Serum CRP and HIV Status using Serum Biomarkers for Enhanced Prenatal Care." Dr. R. Venkatesan served as the Principal Investigator, and the project received a proposal amount of ₹45,50,400. This project primarily contributed to the field of Electronics Engineering.

Project 3: Fabrication and Characterization of Carbon-Based Thin Film Transistor

The Science and Technology department funded a project titled "Fabrication and Characterization of Carbon-Based Thin Film Transistor for Detection of Maternal Serum CRP using Serum Biomarkers for Enhanced Prenatal Care." Dr. R. Venkatesan served as the Co-Investigator, and the project received a proposal amount of ₹4,60,000. This project primarily contributed to the field of Engineering and Technology.

Project 4: Wavelet Transform Analysis for Structural Health Monitoring

The National Board for Higher Mathematics funded a project titled "Wavelet Transform Analysis for Structural Health Monitoring of Micro Cantilever Beams Designed using COMSOL Multiphysics over Optimized Analytical Modeled Devices." Dr. R. Venkatesan served as the Co-Investigator, and the project received a proposal amount of ₹43,76,700. This project primarily contributed to the field of Engineering and Technology.

Project 5: Pioneering Innovations in Advanced Assistive Devices and Adaptive Technologies

The ICSSR funded a project titled "Pioneering Innovations in the Development of Advanced Assistive Devices and Adaptive Technologies - Collaborative Seminar." Dr. A. Sundar Raj and Dr. S. Chitra served as the Principal Investigator and Co-Investigator, respectively. The project received a proposal amount of ₹9,90,000 and primarily contributed to the field of Biomedical Engineering and Rehabilitation.

Project 6: Design and Development of Bluetooth-Enabled ECG Chest Leads

The TNSCST funded a project titled "Design and Development of Bluetooth-Enabled ECG Chest Leads for Wireless and Optimized Patient Monitoring System." Dr. S. Ramabalan and Dr. A. Sundar Raj served as the Principal Investigator and Co-Investigator, respectively. The project received a proposal amount of ₹4,64,000 and primarily contributed to the field of Engineering and Technology.

Project 7: Developing a Tree-Based Machine Learning Framework for Diagnosis of Polycystic Ovarian Syndrome

The ICSSR funded a project titled "Developing a Tree-Based Machine Learning Framework for Diagnosis of Polycystic Ovarian Syndrome." Dr. M. Chinnadurai and Dr. A. Sundar Raj served as the Principal Investigator and Co-Investigator, respectively. The project received a proposal amount of ₹29,90,000 and primarily contributed to the field of Engineering and Technology.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Student Achievements - October 2024

The department is proud to announce the achievements of its students in various inter-college competitions. D. Shivarajadharsini (Reg. No. 8208E21CSR106) won the first prize in the paper presentation competition held at E.G.S. Pillay Engineering College on October 3, 2024.

Jensha B (Reg. No. 8208E23CSR069) won the first prize in the long jump event and was part of the winning team in the 400m relay event at the Anna University Zonal Match held at Anna Sathya Stadium, Tiruchirappalli.

Outside World Interaction

Several students participated in the paper presentation, code debugging, and technical quiz competition held at Kings Engineering College, Tanjavur, on October 25, 2024. The participating students were Abishek A (Reg. No. 8208E23CSR010), Adel Rizwan S (Reg. No. 8208E23CSR013), Akash Raj B (Reg. No. 8208E23CSR016), Durgesh T (Reg. No. 8208E23CSR041), Elayarajan R (Reg. No. 8208E23CSR043), and Gowsik J (Reg. No. 8208E23CSR052).

Outside World Interaction - Sports

Dharmavasan S (Reg. No. 8208E21CSR025) won the first prize in the cricket tournament held at CM-Trophy Collector Office, Nagapattinam, on October 20, 2024.

NPTEL Online Certification

Nivethithai C (Reg. No. 8208E22CSR072) completed the NPTEL online certification course "Joy of Computing Using PYTHON" from July to October 2024.

Outside World Interaction - Internship

Sivamalini MJ (Reg. No. 8208E23CSR169) completed an internship program.

Several students participated in a workshop on Python programming held at IIT Madras Research Park on November 24, 2024. The participating students were Jensha B (Reg. No. 8208E23CSR069), Pradeepa S (Reg. No. 8208E23CSR118), Sadhana R (Reg. No. 8208E23SR147), Senthuriya C (Reg. No. 8208E23CSR147), Sindhuja S (Reg. No. 8208E23CSR150), and Sridevi (Reg. No. 8208E23CSL309).

Staff Achievements - Journal Publications

The department is proud to announce the publication of research papers by its faculty members in various international journals.

1. Dr. M. Chinnadurai and Mrs. B. Ranjani published a paper titled "Sparse attention with residual pyramidal depthwise separable convolutional based malware detection with optimization mechanism" in Scientific Reports, Vol. 14(1), October 2024.
2. Dr. S. Praveen Kumar published a paper titled "Adaptive Error Correction and Machine Learning for Robust Optical Fibre Communication" in the 2nd International Conference on Self Sustainable Artificial Intelligence Systems 2024.
3. Dr. S. Praveen Kumar published a paper titled "Super-Resolution Image using Enhanced Deep Residual Networks and the DIV2K Dataset" in the 2nd International Conference on Self Sustainable Artificial Intelligence Systems 2024.
4. Dr. S. Subashree published a paper titled "A Study on Efficiency of Bio Medical Data Extraction from PubMed Dataset using Elastic Search Engine" in the 2nd International Conference on Self Sustainable Artificial Intelligence Systems 2024.
5. Mrs. E. Saranya, Dr. S. Subashree, and Dr. G. Pushpa published a paper titled "Design and Study of Foil Based Robust Wheezing Monitoring System for Asthma Prevention" in International Journal of Engineering

DEPARTMENT OF CIVIL ENGINEERING

STUDENT ACHIEVEMENTS

Adhiyan H S interned at Vishvadikka Construction, while Srinivasan V, Vimal K, and Santhosh D S interned at Modern Construction, Modern Construction, and Sumathi Engineering Contractor, respectively.

Mathesh R, Marunthees Waran R, Niroshan S, and Hari Srinivasan V all interned at Highrise Developers & Infrastructures.



Lastly, Aswin Raja S and Logeswaran S interned at Kayathri Consultants Pvt. Ltd.

STAFF ACHIEVEMENTS

The faculty members of the Civil Engineering department participated in various faculty development programs to enhance their skills and knowledge. Dr. Ashwini.B attended the online course on "Sustainable Construction Practices" organized by Koneru Lakshmalah Education Foundation from August 5 to 10, 2024.

Mr. R. Rajmohan attended the online course on "Building Information Modelling" organized by ICT Academy, Chennai, from November 11 to 15, 2024. Dr. Ashwini.B and Mr. Sreethalababu.P.S attended the online course on "Innovations in Energy, Environmental Sustainability & Material Science" organized by Sri Ranganathar Institute of Engineering & Technology from November 18 to 23, 2024.

Editor for Book Chapter

Dr. Ashwini.B served as an editor for a book chapter on "Construction Site Management" published by SAN International Publications.

Programme Events

The department organized several programme events, including workshops and webinars. A national one-day workshop on "Innovative Design for Structures using BIM" was organized on October 7, 2024, with Er. Udhayashankar, M.E (Structural), MD, BTR Construction, Erode, as the resource person.

A webinar on "3D Printing in Construction Industry" was organized on October 14, 2024, with Mr. Lakshmi Narayanan.S, DGM & Head-Robotics (B&FIC), as the resource person. A national webinar on "Role of GIS and Practical Applications in Transportation Industries" was organized on October 21, 2024, with Er. Nerru Prasad V.K, GIS Analyst, Trimble, Chennai, as the resource person.

An international webinar on "Roles & Responsibilities of Quantity Surveyor in Precast Industry" was organized on November 2, 2024, with Er. Aimen Nabeel, M.E, Quantity Surveyor, Gulf Precast Concrete Company LLC, UAE, as the resource person.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Student Achievements

7 Days Challenge NBA Celebration: Vidhya K (E21ECR119) won the competition held at E.G.S Pillay Engineering College on October 3, 2024.

Other participants in the competition include Selvasekaran S (E21ECR096), Thennavan J (E22ECR114), and Vibinesan (E23ECL309).

Balapasanna G (E22ECR018) participated in an internship at ISRO Propulsion Complex, Mahendragiri on October 4, 2024.

Vishal R (E22ECR120) also participated in the ISRO internship.

Thirisha I (E23ECR113) participated in a workshop on IoT automation using Raspberry Pi and Node-RED at IIT Madras Research Park on September 28, 2024.

Other participants in the workshop include Shanmuga Priya S (E23ECR093), Vinodhini V (E23ECR122), Devadharshini K (E23ECR019), Subasri U (E23ECR106), Pavithra K (E23ECR068), Priyadharshini P (E23ECR071), Sritharan M (E23ECR105), Thirumurugan N (E23ECR114), Nithish Kumar S (E23ECR064), and Ziegen Balg R (E23ECR126).

sports achievements

Table Tennis Winner: Amudhan (E21ECR301) from Anna University Sports won the table tennis tournament on October 22, 2024¹.

Volleyball Winner: Mohana (E23ECR059) emerged victorious in the volleyball tournament.

K.R. Bhawana, 1st-year ECE, won a Gold Medal in Shotgun at Anna University Zone 15.

Kirithika B, 1st-year ECE, secured Silver Medals in both Shotgun and Disc events.

Gunalan, 2nd-year ECE, achieved impressive results with a Silver Medal in Long Jump and a

NPTEL ONLINE CERTIFICATION

Three students from the ECE department successfully completed a 12-week online course on "Programming in Java" from July to October 2024. The students are:

Ajay (E21ECR004), Vidhya K (E21ECR119), Mohamed Juneal (E21ECR061)

Patent Details

Mrs. M. Kavitha, AP/ECE, has filed a patent for an "Intelligent Brain-Computer Interface System to operate Prosthetic Limbs of Paralyzed People" with the Intellectual Property India organization. The patent application number is 202441068447A, and it was published on September 20, 2024.

SCI Journal Publications

V. Parthasaradi, A. Karunamurthy, C. H. Hussaian Basha, and S. Senthilkumar have published a paper titled "Efficient Task Scheduling in Cloud Computing: A Multi-objective Strategy Using Horse Herd-Squirrel Search Algorithm" in the Wiley journal. The paper was published on October 15, 2024.

SCOPUS Journal Publications

M. Kavitha, C. H. Basha, V. Prashanth, S. Senthilkumar, V. Mohan, and P. Arunkumar have published a paper titled "An Advanced Rice Plant Disease Classification through a Modified Efficient Net-Deep Learning Model" in the 2nd IEEE International Conference on Networks, Multimedia, and Information Technology (NMITCON-2024). The paper was published on October 5, 2024.

L. Anbazhagan, C. H. Basha, V. Prashanth, S. Senthilkumar, M. Kavitha, and T. Senthil Kumar have published a paper titled "Data Security in Cloud Computing using

Maritime Search and Rescue Algorithm". The paper was published on October 4, 2024.

V. Lakshmi Praba, C. H. Basha, V. Prashanth, S. Senthilkumar, M. Kavitha, and L. Anbazhagan have published a paper titled "A Hybrid Optimization-based Secured Communication in Wireless Sensor Networks through Blockchain Technology". The paper was published in October 2024.

UGC Journal Publications

R. Nirmala, L. Megala, and M. Malathi have published a paper titled "A Low Power and Area Reduction Multiplier Implementation Using Vedic Mathematics in 16nm FINFET Technology" in the ICTACT Journal on Microelectronics. The paper was published in October 2024.

IEEE Conference Participation

Faculty members have participated in various IEEE conferences, presenting research papers on cutting-edge topics. D. Devarajan, R. Rajalakshmi, P. Sivakumar, S. Senthilkumar, M. Malathi, L. Ramachandran presented a paper titled "Design and Implementation of Framework for Building Extraction using Fast Accurate Bilateral Filter, Fast Corner Method and Improved Gaussian Blur" at the Second International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS-2024).

SCI Journal Publications

Faculty members have published research papers in SCI-indexed journals. S. Kumarganesh, Malathi Murugesan, C. Ganesh, N. Santhiyakumari, M. Thangavel, K. Jayaram, K. Martin Sagayam, Binay Kumar Pandey, Digvijay Pandey published a paper titled "Hybrid Plasmonic Biosensors with Deep Learning for Colorectal Cancer Detection" in the Springer-Plasmonics journal.

TNSCST Major Proposal Submission

Faculty members have submitted research proposals to TNSCST for funding. Dr. M. Priya, Professor/CSE, and Dr. M. Malathi, Professor/ECE, have submitted a proposal

titled "Empowering Maternal Healthcare in Rural India: Bridging Information Gaps through Enhanced Electronic Health Records for Safer Childbirth" with a budget of Rs. 30,00,000.

NPTEL Course Certification

Faculty members have completed NPTEL courses and received certification. Mrs. M. Kavitha, Assistant Professor/ECE, completed the "Digital Image Processing" course with an elite certification and a score of 60%. Mr. L. Anbazhagan, Assistant Professor/ECE, completed the "Introduction to Internet of Things" course with an elite-silver certification and a score of 86%.

NPTEL-FDP

Faculty members have completed NPTEL courses and received certification. Mrs. M. Kavitha, Assistant Professor/ECE, completed the "Digital Image Processing" course on NPTEL Online from July to October 2024 (12 weeks). Mr. L. Anbazhagan, Assistant Professor/ECE, completed the "Introduction to Internet of Things" course on NPTEL Online from July to October 2024 (12 weeks).

Faculty Development Programme

Faculty members have participated in various faculty development programs. Ms. S. G. Praveena, Assistant Professor/ECE, attended a two-day online FDP on "Advanced AI Tools for Preparing Research Papers" at the SASI Institute of Technology and Engineering from November 8-9, 2024. Mrs. S. Vetrivelvi, Assistant Professor/ECE, attended a six-day ATAL FDP on "Advancements in Semiconductor Design; From IC flow to High-Speed Architectures and Hardware Security" at SASTRA Deemed University, Thanjavur, from November 11-16, 2024.

Programme Events

The ECE department has organized various events, including the International Symposium-FREQFEST2K24, which was held on October 5, 2024. The symposium was convened by Dr. M. Malathi, Professor

HOD/ECE, and coordinated by Dr. R. S. Koteeswari, Assistant Professor/ECE, and Mrs. M. Kavitha, Assistant Professor/ECE.

Students' Technocrat Club-Webinar

The Students' Technocrat Club organized two webinars. The first webinar was on "Technical Quiz Competition" and was held on October 11, 2024, from 10:00 am to 11:00 am on Google Meet. The resource person was K. Devadharshini, II-ECE-A, E.G.S. Pillay Engineering College (Autonomous), Nagapattinam.

The second webinar was on "Workshop on Android Application Penetration Test" and was held on October 29, 2024, from 9:15 am to 10:05 am in the DSP lab. The resource persons were K. Moneswaran, K. Hareesh, and K. Hariharan, III ECE A, E.G.S. Pillay Engineering College (Autonomous), Nagapattinam.

Students' Embex Club-Webinar

The Students' Embex Club organized two webinars. The first webinar was on "Technical Quiz Competition" and was held on October 6, 2024, from 6:00 pm to 7:00 pm on Google Meet. The resource person was S. Aathil Ahamed, II ECE B, EGSPEC.

The second webinar was on "Career Path in Digital World" and was held on October 18, 2024, from 2:15 pm to 3:00 pm offline. The resource person was Mr. Hemanth, Managing Director, Hitakey Group of Companies.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Fire and Safety Awareness Program

The department conducted a fire and safety awareness program for all faculty members of the E.G.S. Pillay Group of Institutions on October 5, 2024.

National Level Symposium

The Department of Electrical and Electronics Engineering, in association with the ZEPRA Association, conducted a national-level symposium on October 3, 2024. The event featured paper presentations, circuit debugging, project expos, and paper rocket competitions. Students from various colleges and external participants presented their research papers.

Hands-on Training of Electrical Appliances

The department conducted a hands-on training session on electrical appliances for third-year EEE students on October 3, 2024. Students gained practical knowledge of ceiling fan connections, testing, and fixing, as well as circuit breakers.

ISRO Internship

Two third-year students, Kavi Raja and Nihal Ahmed, successfully completed their ISRO internship on November 4, 2024.

Blood Donation Award

The department received a blood donation award from the Government Medical College, Orathur, Nagapattinam, on October 7, 2024.

Value-Added Course

The Department of EEE inaugurated a value-added course on the design and development of sine wave inverters for third-year EEE students from October 14 to 22, 2024. The course was conducted by Emcog Solutions Pvt Ltd., Chennai.

Seminar on MEP Design

The department conducted a seminar on the role of engineers in MEP design for second-year EEE students on October 25, 2024. Students gained knowledge about MEP design, and the session was handled by final-year EEE students.

Industrial Training

The department's faculty members attended a one-week industrial training program at Garuda Aerospace from October 21 to 25, 2024.



Workshop on 3D Printing and Design

Eight third-year students completed a workshop on 3D printing and design at C.K. College of Engineering and Technology, Cuddalore, on November 6 and 7, 2024.



DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Organizing Committee

The International Symposium INSIGHTX'24 was held on October 5, 2024. The event was organized by various committees, each with distinct roles and responsibilities. These committees worked tirelessly to ensure the success of the symposium.

Committee Roles and Responsibilities

The committees included Chair, Co-Chair, Discipline, Communication, Programme Schedule, Registration, and others. Each committee was led by department-level coordinators, including Dr. R. Karthi, Dr. B. Asha Daisy, Mrs. P. Tamilazhaghi, and Mr. S.N. Kanagarathinam. The Chair committee, led by Dr. R. Karthi, was responsible for drafting the vision, leading the programme, and overseeing programme development, registration, logistics, budget, promotion, networking, and engagement.

Events and Activities

The symposium featured various events, including paper presentations, guest lectures, and cultural programs. The paper presentation team, led by Mrs. P. Tamilazhaghi, consisted of students who presented their research papers on various topics. The guest lectures were delivered by experts in their respective fields, providing valuable insights to the participants.

Internships

Additionally, students participated in internships with companies such as Akshayakalpa Farms and Foods Pvt Ltd, MGM Healthcare Pvt Ltd, and SIMS Hospital Pvt Ltd. These internships provided students with hands-on experience and exposure to the industry.

Student Participation

The symposium also witnessed participation from students in various events, including sports and cultural programs. The students showcased their talents and skills, making the event a grand success.

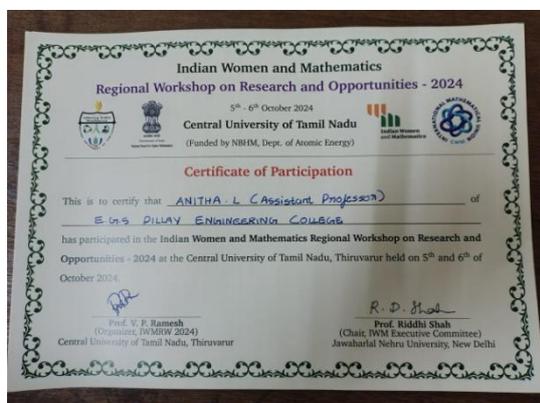
Faculty Involvement

The faculty members played a crucial role in the organization and execution of the symposium. They served as coordinators, mentors, and guides, ensuring the smooth functioning of the event. Mr. S. Sathish Kumar, a faculty member, participated in a national-level online workshop on qualitative research methods.

DEPARTMENT OF SCIENCE AND HUMANITIES

STAFF ACHIEVEMENTS

The faculty members of the department have been actively engaged in various professional development activities. Dr. S. Tharani completed a one-week online course on "Analytical Techniques" through NPTEL from October 21 to October 26, 2024. Additionally, R. Seetha completed a 12-week online course on "Statistics for Biomedical Engineers" through NPTEL from July to October 2024.



Furthermore, the faculty members have participated in various faculty development programs. Mrs. Lanitha, Assistant Professor, attended a two-day regional workshop on "Research and Opportunities-2024" organized by the Central University of Tamil Nadu on October 5-6, 2024.

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