SRMMCET ANNALS

Annual Newsletter

Volume 2 Issue 1

May 2024 - April 2025

SRMMCET ANNALS

May 2024 - APRIL 2025 Volume 2 Issue 1

Preface

It is with great pleasure that we present the volume 3 Issue 1 of our institution newsletter, SRM MCET ANNALS. This issue is a reflection of the vibrant academic and extracurricular endeavors at SRM MCET, showcasing the hard work, achievements, and innovations of our students, faculty, and staff. As we continue to thrive in an ever-evolving educational landscape, this edition highlights the collaborative efforts and the spirit of excellence. We hope this issue serves as an inspiration, bringing forward new insights, knowledge, and accomplishments that strengthen our collective journey towards success. We extend our sincere gratitude to all contributors and readers for their continued support, and look forward to the exciting milestones yet to come.

Vision

To become a centre of excellence in preparing engineering professionals with excellent technical, scientific research, and entrepreneurial abilities to contribute to the society.

Mission

- Providing a comprehensive learning environment.
- Imparting state-of-the art technology to fulfill the needs of the students and Industry.
- Establishing Industry – Institute alliance for bilateral benefits.
- Promoting Research and Development activities.
- Offering student lead activities to inculcate ethics, social responsibilities, entrepreneurial, and leadership skills.

Quality Policy

World-class education is aimed at through state-of-the-art infrastructure and effective teaching methodologies to produce competent technocrats of global standards.

Contents

Preface 01
02 Events
Civil 04
06 CSE
EEE 9
11 ECE
Mechanical 13
15 IT
MBA 17
18 S&H
Other Activitties 20
21 Co curricular Activities
MoU 22

- Events Organized
- Publications
- Patents
- Books/Book Chapters Published
- Student Achievements
- Faculty Achievements
- proposal Submitted
- Industry Institute Interaction

EVENTS

May 2024 - APRIL 2025

Volume 2 Issue 1

College Day 2024

The First College day and Annual Day celebration at SRM Madurai College for Engineering and Technology was held with great enthusiasm and excitement on 31.05.2024. The Chief guest was Mr.S Ananthapadmanaban, Head HR, TVS Supply Chain Solutions (SCS) Limited, Madurai The event aimed to celebrate the achievements of the students and faculty and to reflect on the academic year's milestones.



Sports Day 2024

The Annual Sports Day 2024 was successfully held on the 31st of May at SRMMCET, with an enthusiastic turnout from students, staff, and families. The day culminated with an Awards Ceremony, where winners of various events were recognized by chief guest Ms.Revathi, Olympian Athletics, Southern Railway. Participants received medals, certificates, and trophies for their outstanding achievements in both individual and team categories.



ZURA '24- Cultural Fest

The Zura 2024 Cultural Event, held on 1st June 2024, was a resounding success with vibrant performances and a lively atmosphere. Mr. Bala, the renowned actor, graced the event as Chief Guest, inspiring the audience with his presence.
Ms. Sowmiya, the talented DJ, energized the crowd with an electrifying music set.









EVENTS

May 2024 - APRIL 2025

Volume 2 Issue 1

Pongal Celebration 2025

The Management, Staff, Faculty and Students of SRMMCET came together to celebrate the traditional Tamil festival of Pongal on January 10, 2025. The event organized to commemorate the traditional harvest festival, featured an exciting array of cultural and fun-filled competitions. The celebrations were marked by a vibrant environment of joy, togetherness, and healthy competition.







National Science Fair 2025

The National Science Fair 2025 was inaugurated on National Science Day (28.02.2025) at SRM MCET, focusing on the theme "A Greener Tomorrow: Zero-Waste Science Innovations." Over 450 school students from Madurai and nearby areas participated, showcasing their innovative science projects aimed at environmental sustainability.The Chief Guest, Ms. M. Maheswari, Joint Commissioner of GST, Madurai, delivered a special address encouraging students to adopt zero-waste practices and innovative solutions.







DEPARTMENT OF CIVIL ENGINEERING

Events organized

- Group Discussion on "Impact of Construction of Dams", 04 May 2024
- Paper presentation – AI Enabled Environmental Conservation Ideas, 31 August 2024
- Webinar – Seawater-mixed Concrete, 5 September 2024
- Sustainable construction practices-inspirational case studies – Industry Connect Techtalk Series, 21 September 2024
- In association with NITTTR, a Online Short Term course "Defect Free Construction, Repair and Maintenance" was conducted from 16 December 2024 to 20 December 2024.
- Extension activity-Sustainable Water Management Conservation and Rainwater Harvesting , 28 January 2025

Publications

- Dr. C. Prithiviraj et. al.,, "Analysis of GFRP-reinforced beams in enhanced SCC", Croatian Association of Civil Engineers (HSGI), Vo.76, No.6, 2024.
- Dr. P. Krishna Kumar et. al.,

1. "From Brown Earth to Green Bricks—A Critical Analysis of Stabilized Mud Blocks for Sustainable Construction. Technologies for Sustainable Buildings and Infrastructure", Lecture Notes in Civil Engineering, Springer, Singapore,2024.
2. Dr. P. Krishna Kumar, "Utilization of Natural Zeolite and Nano-Cuttlefish Bone Powder as Sustainable Admixtures in Foamed Concrete", European Journal of Environmental and Civil Engineering, 2024.
3. "Study on Influence of Bacillus Subtilis Bacteria on Strength and Durability of Concrete with Silica Fume" Civil Engineering Journal (Iran) / Salehan Institute of Higher Education, 2025.
4. "A Simplified Approach for the Mix Design of internally Selfcompacting Concrete with Fly Ash", Romanian Journal of Materials, 2025.

- Dr. V. Gowri, "A comparative Study of sustainable mix incorporating Recycled Aggregates", Revista Materia, Vol.29, No.3, 2024.Dr. V. Gowri, "Integrated Strategies for Addressing The Water Scarcity", Journal of Environmental Protection and Ecology, Vol.24, No.6, 2024.

Patent

- Dr. C. Prithiviraj, "AI-Based Environment and Soil Analyzing Device for Agriculture Design", Filed on 08.11.2024
- Dr.P.Krishnakumar, "Textile Based Solar Panels and building integrated photovoltaic", IPR,Published

Books Published

- Dr.P.Krishnakumar, "Disaster Risk Reduction and Management , Self Published"

Faculty Achievements

- Dr. V.Gowri – Wastewater Treatment and Recycling – Elite
- Mrs. S.Nagalakshmi – Technical Communication for Engineers – Elite+Silver
- Dr. Pandieswari M – Electronic Waste Management – Issues and Challenges – Elite
- Dr. Karthik A – Electronic Waste Management – Issues and Challenges – Elite + Silver

DEPARTMENT OF CIVIL ENGINEERING

Proposals Submitted

- Dr. P. Krishna Kumar: Workshop on "E-commerce for Self-help Group" (TNSCST DIT, 3 days, ₹45,000, Applied)
- Dr. P. Krishna Kumar: Research on "Reducing Traffic Congestion in Madurai City through Software Modelling" (TNSCST, 2 years, ₹4,60,000, Applied)
- Dr. P. Krishna Kumar: Research on "AI-Based Assistive Toilets for Autism Spectrum Disorder Needs" (ICSSR, 3 years, ₹29,00,000, Applied)
- Dr. C. Prithiviraj: Research on "Low-Water Self-Curing Concrete for Tamil Nadu's Water-Scarce Regions" (TNSCST, 2 years, ₹5,00,000, Applied)
- Mrs. S. Nagalakshmi: Research on "Investigating SFDMs for the Treatment of Wastewater Containing Heavy Metals" (TNSCST, 2 years, ₹5,00,000, Applied)
- Dr. V. Gowri and Dr. P. Krishna Kumar: FDP on "AI and IoT for Resilient Infrastructure and Advanced Disaster Management " (ATAL FDP, Applied)

Industry Institute Interaction

- Dr. C. Prithiviraj, attended the course "Industry-Academia Basic Course on Bridge Engineering and its Code Practice" at Thiagarajar College of Engineering, Madurai from 06 December 2024 to 08 December 2024.

Industry visit by faculty members

Name of the Faculty	Name of the Industry / Research Institute / Research Lab
Dr.V.Gowri	Larsen & Toubro Limited, Chennai
Dr.P.Krishnakumar	Kartya Constructions Pvt Ltd, Madurai
Ms.S.Nagalakshmi	125 MLD Sewage Treatment Plant, Madurai
Dr.C.Prithviraj	Keezhadi Structural Engineering Consultancy, Keezhadi, Madurai
Dr.A.Karthik	Madurai Corporation, Madurai
Dr.P.Ramshankar	Chilal Reality & Infra projects, Coimbatore
Dr.Ma Atmanandi	National Highway Authority of India (Madurai), Madurai
Dr.N.Pandieswari	Public Works Department, Water resource, Madurai
Dr.V.Ganga	P & C Projects Pvt Ltd, Madurai
Mr.M.Balaji	India Meteorological Department, Chennai.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

May 2024 - APRIL 2025 Volume 2 Issue 1

Events organized

- Webinar on "Identification of Frameworks (Programming Languages) for Real time Application", 04 May 2024
- Technical debate, "The Influence of Social Media on Our Lives, for Better or Worse", 04 May 2024
- An online workshop on Visual Machine Learning, 20 July 2024
- Webinar on "Bio Inspired Algorithms for Solving Real World Problems", 23 July 2024
- Webinar on "Empowering Embedded Systems: Harnessing the Power of FreeRTOS for Seamless Real-Time Operating System Integration", 24 July 2024
- IIC Activity – Incubation Opportunities for Young Professionals, 29 August 2024
- Code Debugging -Debugging in C program, 31 August 2024
- Innovator's Nexus 24 (Idea Queue), 31 August 2024
- Techtalk, 31 September 2024
- One-Day Icebreaker Session on "Internet of Things (IoT) and Embedded Systems, 19 October 2024
- Seminar – UI/UX Design Session, 16 November 2024
- Webinar-Applications of Block Chain Technology 2025
- Webinar – From Pixels to Text: The Power of Vision LLMs in Understanding Visual Data, 2025

Publications

- G. Aninthitha et. al.,

1. "XG-boost-based optimization of corrugated arm MEMS switch for improved radio frequency performance", Microsystem Technologies , 2024.
2. Ms. Aninthitha.G et. al., "Improved Image Caption Generation for Low Resource Languages", International Journal of Creative Research Thoughts,2024

- Dr.C.Callins Christiyana et. al., "Human-Centered AI in Healthcare On Skin Cancer Disease using BPNN Feature Extraction and BCO Classification", Human-Centered AI: Frameworks and Applications , Publisher-Wiley, 2024
- M.Kanimozhi et. al.,, "Air Quality Prediction using a U-net Inspired 1d Cnn with attention Mechanisms", Global Nest Journal, 2025

Patent

- Dr.R.Deepalakshmi, "A Convolutional Neural Network Accelerator for Depthwise-Separable Architecture", Published
- Dr.Selvam L, "A Behaviour Based Biometric Verification Using Machine Learning Techniques and Methods, Published
- Dr.Sethupathi V, "IOT Based Wearable Medical Health Monitoring Device", Published

Books/Book Chapters Published

- Ms G.Aninthitha, "Optimization of Circular Loop Antenna With Step Change in Loop Width Using Machine Learning Techniques" , IGI GLOBAL
- Dr.V.Sethupathi , "Informatics and Cyber Security"

- Mrs.M.Kanimozhi, “Beyond Human Intelligence contrasting artificial general intelligence with artificial Super Intelligence”-ASI Book Chapter-24
- Mrs.A.Deepika , "Comprehensive Insights into Artificial Intelligence Techniques for Transformer Condition Assessment”
- Dr.R.Deepalakshmi, “Computer Graphics and Multimedia”, Publisher:Scientific International Publishing House
- Dr.L.Selvam "Data-Driven Insights and Analytics for Measurable Sustainable Development Goals”, Elsevier
- Dr.L.Selvam "Exploring Cancer Therapeutics: A Collection of Case Studies ", Wiley

Students Achievements

- Prasanth Narayanan V S – Problem Solving Through Programming in C – Successfully Completed
- Yuvan Shankar C – Problem Solving Through Programming in C – Elite
- Hoorul Firthous – Problem Solving Through Programming in C – Successfully Completed
- Hari Vishalini T – Cyber Security and Privacy – Elite
- Mahesh M.S.K and Harini M – WebSprint'25 Hackathon, St. Joseph's College, Trichy – 2nd Place (Rs. 3000/-)
- Mahesh M.S.K – Appathon, Thiran 25, Sri Eashwar College of Engineering, Coimbatore – 2nd Place (Rs. 1500/-)
- Mahesh M.S.K – Bot Battle, Thiran 25, Sri Eashwar College of Engineering, Coimbatore – 2nd Place (Rs. 1500/-)

Faculty Achievements

- Ms. G.Aninthitha – Python for Data Science (– Successfully Completed
- Dr. C. Callins Christiyana – Python for Data Science – Elite+Silver (Top 1%)
- Dr. S J Subhashini – Distributed Systems – Elite
- Mrs. A. Deepika – Python for Data Science (CSE) – Elite
- Dr. Callins Christiyana C – Data Mining – Elite + Silver
- Ms. Kanimozhi M – Introduction to Design and Analysis of Algorithms – Elite
- Mrs. Sivapriya M R – Introduction to Machine Learning – Successfully Completed
- Dr. Selvam L – Edge Computing – Elite + Silver

Proposals Submitted

- Dr. R. Deepa Lakshmi and Dr.V. Sethupathi: Research “Drone manufacturing and assembly technician” (NSDC-AICTE, ₹20,000,00/-, Applied)

Students Participation

- IIT Madras Research Park hosted a workshop on "IoT Automation using Raspberry Pi and Node-Red" on 28th September 2024. A total of 11 students participated in this event: Brindha B, Mohammed Safir M, Sanjay M M, Santhosh K, Sudharson S, Harivishalini T, Jacinth R, Ruban Chakravarthy A, Kaviya M, Sree Kanth, and Thanuja V.
- Thiagarajar College of Engineering organized an Ideathon under the Techfusion event on 14th September 2024. This event saw participation from 13 students: Jayasakthi K R, Arun Kumar M, Devadharshini K, Dheeksha J R, Ebsiba J

- Karthick Babu A V, Nishalini M, Rubeina A, Sandhiya R, Shanmugapriya VJ, Sugapratha Mani V, Viji M, and Yogashri KO.
- SRM Institute of Science and Technology, Chennai conducted a Coding Contest as part of Engineer's Day celebrations on 12th September 2024. A total of 7 students took part in this contest: Cindrella R, Dhanuja KSE, Evangelin J, Joshua Tony Bastin S, Madhumitha A, Pradeep KD, Sheayaja Y.
- ICOAAI, Krishnagiri and GIET, Maharashtra were the venues for Paper Presentations held on 31st August 2024 and 14th September 2024, respectively. 2 students presented papers at these events: Raksha C S S and Shree Vakthi S.

Industry visit by faculty members

Name of the Faculty	Name of the Industry / Research Institute / Research Lab
Dr. C.Callins Christiyana, Dr S.J.Subhashini	Aparajitha Corporate Services, Madurai
Dr.R.Deepalakshmi , Ms.A.Deepika	Dr.R.Deepalakshmi, Ms.A.Deepika
Dr.L.Selvam, Dr.V.Sethupathi, Dr.M.Pandi	Happiest Minds Technologies Ltd, Madurai
Dr. R.Lakshmi, Ms.V.Pavithra	Pruvity HR Solution Pvt Ltd, Madurai
Ms.M.Kanimozhi	Dotcom Inforway Ltd,
Ms.G.Aninthitha	OsiZ Technologies, Madurai

TECHXPLOSION'24

The Department of Computer Science and Engineering at SRM MCET, in collaboration with the Computer Society of India, hosted the State-Level Technical Event, TECHXPLOSION'24, on October 15, 2024. Held in memory of Dr. A.P.J. Abdul Kalam, the event provided a platform for students to showcase their innovation, leadership, and technical skills.





DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

May 2024 - APRIL 2025

Volume 2 Issue 1

Events organized

- Debate, “A National water grid for India a boon or a bane”, 04 may 2024
- Seminar on “Energy Conservation-Way to Conserve Energy at Home”04 may 2024
- Seminar on “ Renewable Energy”, 04 may 2024
- Poster Presentation – Demonstration on Water Cycle (Environmental, Social, Institutional, and Financing Issues) 31 August 2024
- Training – Training on basics of MATLAB, 21 September 2024
- Poster Design event – Energy Conservation with slogans, 21 September 2024
- ATAL FDP (Online) – Emerging Trends in Optimal Design of Electric Vehicles and Hydrogen Fuel Cell Vehicles for Sustainable Futures – 27 January 2025 to 01 February 2025
- TNSCST Workshop – Renewable Energy Resources in INDIA: Career Prospects and Challenges – 20 & 21 February 2025
- Extension Activity, “Training Program on Electrical Safety Awareness”, 2025
- Project Expo- “Ignite Your Innovations”, 28 March 2025

Publications

- Dr.J.Rajalakshmi, et. al.,

1. “Biorefinery-based evaluation of Karanja oil and Mahua oil as sustainable alternatives for transformer insulation”, Journal Biomass Conversion And Biorefinery, 2024.
2. “Analysis of Solar Photovoltaic Integration and Plug-in Electric Vehicle Charging Systems with a Bidirectional Buck-Boost DC to DC Converter’, Journal of The Institution of Engineers (India): Series B, 2024.

- Dr. M. Karthik et. al.,,

1. “Appropriate analysis on properties of various compositions on fluids with and without additives for liquid insulation in power system transformer applications”, Scientific Reports, Vol.14,No.17814, 2024.
2. “A Novel Method for Illegal Driver Detection and Legal Driver Identification Using Multitask Learning Based LSTM Models for Real Time Applications”, Wireless Personal Communication, Vol.136, 2024.

- Dr.P.Deepamangai, "An efficient power management control strategy for grid-independent hybrid renewable energy systems with hybrid energy storage: Hybrid approach",Journal of Energy Storage, Vol96, 2024.

Patent

- Dr.C.Vimalarani, “Brake Monitoring System for Vehicle”, Published
- Dr.J.Rajalakshmi, “Eco-Friendly Device for Carbon Dioxide Adsorption", published

Books Published

- Dr.P.Deepamangai, “Embedded Systems and IoT”, Charulatha Publications

Students Achievements

- Niranjankumar S G – Sensor Technologies: Physics, Fabrication, and Circuits – Successfully Completed
- Sabashini S – Dc Microgrid and Control System – Elite
- Lavanya JD – Dc Microgrid and Control System – Elite
- Sushma Rajam S – Power System Protection and Switchgear – Successfully Completed

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

May 2024 - APRIL 2025 Volume 2 Issue 1

Faculty Achievements

- Dr. P. Deepamangai – Fundamentals of Artificial Intelligence – Elite
- Dr. C. Vimalarani – Stress Management – Elite+Silver
- Dr. C. Vimalarani – Cloud Computing – Elite+Silver
- Dr. J. Rajalakshmi – Accreditation and Outcome Based Learning – Elite
- Dr. J. Rajalakshmi – Soft Skill Development – Elite
- Dr. A. Narendran – Effective Engineering Teaching in Practice – Elite
- Dr. A. Narendran – Recent Advances in Transmission Insulators – Successfully Completed
- Dr. M. Karthik – Effective Engineering Teaching in Practice – Elite + Silver
- Dr. M. Karthik– Teaching and Learning in Engineering – Elite + Silver

Projects Sanctioned

- ATAL FDP titled , "Emerging trends in optimal design of Electric Vehicles and Hydrogen Fuel cell Vehicles for Sustainable Futures" by Dr. S. Durairaj, Principal and Dr. R.J.Venkatesh/EEE (Received a Grant of Rs.1,00,000/-)

- TNSCST titled, "National level Workshop on "Renewable Energy Resources in India: Carrier Prospects and Challenges" by Dr.J.Rajalakshmi, AP/EEE and Dr.M.Karthik/ AP(Sr.G)EEE (Received a Grant of Rs.20,000/-)

Students Participation

- Niranjan Kumar, Vignesh, Hariharasubramanian, Nagasubramanitan, Karthick, Arunkumar, Devaganash: Dot Net Workshop (Top Engineers-India in association with Mechanica 2024-IIT Madras, 24.08.2024)

Industry Institute Interaction

- Dr.P.Deepamangai attended 5 days Industry Training Program in Garuda Aerospace Pvt Ltd., Chennai from 18 June 2024 to 22 June 2024.

Industry visit by faculty members

Name of the Faculty	Name of the Industry / Research Institute / Research Lab
Dr.C.Vimalarani, Dr.A.Narendran	Vi Microsystem Pvt Ltd,Chennai
Dr.P.Deepamangai	MI Measuring Instruments, Madurai
Dr.R.Rajalakshmi	33KV/11KV Substation, Melavalavu,Madurai
Dr.N.Geetha	Malar Industries,
Dr.A.Jeyalakshmi	230KV Substation, Pasumalai, Madurai

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

May 2024 - APRIL 2025 Volume 2 Issue 1

Events organized

- Poster Making in Ecosystem Restoration, 20 April 2024
- IPR Awareness Programme, 09 may 2024
- Puzzle – Tech Tangle puzzle !, 31 August 2024
- Poster design on Goal Setting and Achievements, 05 October 2024
- Seminar – Career Opportunities in the IT Sector, 19 October 2024

Publications

- Dr. Tharcis P, "PCOScare: Conventional Machine Learning Classifiers for Diagnosing and Prevention" Intelligent Systems and Applications in Engineering, Vol.12, No.3, 2024.
- Dr.R.J.Venkatesh, "Optimizing Hybrid Active–Passive Thermal Management of Prismatic Li-Ion Batteries Using Phase Change Materials and Porous-Filled Mini-Channels", Energy Storage, Wiley,2024.
- Dr.S.Senthilrani, "IoT based Medical Assistive device for treating deep vein Thrombosis", Fifth International Conference on IoT based Control Networks and intelligent Systems (ICICNIS-2024).
- Ms.R.Sangeetha, "Symmetrically Stepped Reflective Surfaces for Enhanced Multiband Stealth and Phase Cancellation", The Electromagnetic Academy, 2025

Patent

- Dr.P.Tharcis , "Textile Based Solar Panels and building integrated photovoltaic", IPR,Published
- Dr. S. Senthilrani, "Flexible patient relocation kart"
- Dr R J Venkatesh , "IoT & ML Enabled Electromagnetic Shielding Structure for High-Frequency Power Device"

Books Published

- Dr. P.Tharcis, "Machine Learning in Biomedical and Health Informatics" , Scientific International Publishing House

Students Achievements

- Achudhan M B – Sensor Technologies: Physics, Fabrication, and Circuits – Successfully Completed
- Rohit M – Sensor Technologies: Physics, Fabrication, and Circuits – Successfully Completed
- Karthick Ragavan S – Sensor Technologies: Physics, Fabrication, and Circuits – Successfully Completed

Faculty Achievements

- Dr. P.Tharcis – Introduction to Internet of Things – Elite+Silver
- Dr. M.Dhamodaran – Introduction to Internet of Things and Accreditation and Outcome Based Learning – Elite
- Dr. S.Senthilrani – Roadmap for Patent Creation – Elite
- Ms. R.Sangeetha – Data Science for Engineers – Elite

Proposals Submitted

- **Dr. M. Dhamodaran and Dr. P. Tharcis : Innovation in Antenna Technology for next Generation 6G wireless communication (ATAL FDP, Applied)**
- **Dr. S. Senthilrani : Artificial Intelligence assisted Solar Heat Pump for Efficient Quality Cardamom Drying (MoE, Research – PI)**
- **Dr. S. Senthilrani : Machine Learning Driven Drone Technology for Monitoring and Reporting Damages in Temple Sculptures (MoE, Research – Co-PI)**
- **Dr. B. Buvaneswari : Artificial Intelligence assisted Solar Heat Pump for Efficient Quality Cardamom Drying (MoE, Research – Co-PI)**
- **Ms. R. Sangeetha : Artificial Intelligence assisted Solar Heat Pump for Efficient Quality Cardamom Drying (MoE, Research – Co-PI)**
- **Dr. B. Buvaneswari : Machine Learning Driven Drone Technology for Monitoring and Reporting Damages in Temple Sculptures (MoE, Research – PI)**

Students Participation

- **Alice Catherine X, M. Madhumitha A, R. Rajeshwari M, S. Silakini, Tharik Ahamed M, Thayakar Raj G, Varshini P, Vignesh R, Yohannaa M: Workshop on "ROS Uncovered" (National Level Technical Symposium Srishti 2K24, PSG College of Tech., Coimbatore, 5 and 6 October 2024)**

Industry visit by faculty members

Name of the Faculty	Name of the Industry / Research Institute / Research Lab
Dr. M. Dhamodaran, Dr.R.J.Venkatesh	Titan Company Ltd, Coimbatore
Dr. B.Buvaneswari	Industrial Electronics Corporation, Madurai
Dr. S. SenthilRani	Quatek Technologies India Pvt.Ltd, Madurai.
Mr. S.Karthik	Auro Lab, Madurai
Ms. R.Sangeetha	Forge Innovations - Fab Lab Visit, Madurai
Mr. B.Anburaj	Quantanics Techserv Pvt Ltd, Madurai
Ms. S. Jeeva	Hi-Tech Arai Pvt.Ltd, Madurai
Ms. N.K.Sharmila	TATA technologies Industry 4.0 tech Centre, Madurai
Ms. S. Anupriyadharsini	Katomaran Technologies,
Ms. V. Sarumathi	400/110KV Substation,Thappukundu Theni

DEPARTMENT OF MECHANICAL ENGINEERING

Events organized

- Personality Development Program, 04 May 2024
- Speaking Competition – E-Vehicle: Benefits and Challenges, 31 August 2024
- Safety Awareness Program , 31 August 2024
- International Webinar Series on "The Role of Technology in Achieving Global Sustainability Goals" from 29 July 2024 to 31 July 2024.
- FDP on "Research Scopes in Mechanical Engineering" on 02 & 03 January 2025, with sessions by Dr. S. Karthikeyan, Dept. of Mechanical Engineering, Syed Ammal Engineering College; Dr. S. Denis Ashok, School of Mechanical Engineering, VIT, Vellore; Dr. G. R. Raghav, Dept. of Mechanical Engineering, SCMS School of Engineering & Technology, Kerala; and Dr. K. Arunprasath, Dept. of Mechanical Engineering, PSN College of Engineering and Technology.
- FDP on "Recent Trends in Alternate Fuels" on 30 January 2025, with sessions by Dr. Kannan G. R., Professor, Dept. of Mechanical Engineering, PSNA College of Engineering and Technology, and Dr. Manikanda Prabhu, Dept. of Mechanical Engineering, Mahaguru Institute of Technology, Kerala.

Publications

1. Dr.S. Sambath et. al.,

- "Effect of friction stir spot welding parameters on the shear fracture load of AA8011/structural steel for automotive applications", Materials Testing, 2024.
- "An intrinsic investigation of surface treated Kevlar intraply patch-repaired glass fiber polymer composites", Iranian polymer journal, 2024.
- "An intrinsic investigation of surface treated Kevlar intraply patch-repaired glass fiber polymer composites", Iranian polymer journal, 2024.

2. Dr.T. Premkumar , "Optimization of Hybrid Renewable Energy Systems using AI Algorithms A Case Study Approach", Nanotechnology Perceptions, Vol.20 No. S13, 2024.

3. Dr. R. Ashok Kumar et. al.,

- "Corrosion studies, parameter effects, and surface morphology of AA5052-AA6101T6 friction stir welded joints", Bulletin of the Chemical Society of Ethiopia, 2024.
- The influence of tool shoulder size and plate placement on the characteristics of friction stir welded different aluminium alloys", Journal of the Chinese Institute of Engineers, Vol.47, No.5, 2024.
- "Corrosion and Inhibition Studies on AISI 316 With AISI 410 Fiber Laser Welded Joint", Bulletin of the Chemical Society of Ethiopia, Vol.38, No.4, 2024.
- "Optimization of Multiresponse Process Parameters in Friction Stir Processing of AA6063/n-Graphene Composites by Taguchi's Grey Relational Analysis", Metallophysics and Advanced Technologies, 2024.

3. Dr. K. Balamurugan , "Compliant Wcag 2.0 Assistive Platform To Improve Web Functionality" , Journal of Technology, 2024

4. Dr. A.N. Balaji , “Mechanical Characteristics of Naturally Woven Coconut Sheath / Short Sisal Fiber Reinforced Polymer Hybrid Composites”, Journal of Polymer and Composites, 2024.

5. Vignesh N J, “ Optimization and microstructural study of friction riveted carbon-Kevlar and aluminum joints for aerospace applications”, Nature Portfolio, 2025

Patent

- Dr. A.N. Balaji, “Development of industrial roof sheet using banana fibre rope mat reinforced polymer composite”, IPR, Granted
- Dr. A.N. Balaji, “Accident Detector Helmet”, UK Patent, Granted
- Dr. R.Ashok Kumar, “Protective Footwear Shield for Metatarsal Bone Fractures Applicant & Inventor”,IPR, Granted
- Dr.R.Ashok Kumar, “Innovative Tool Design for Friction Stir Spot Welding with Enhanced Joint Integrity in Aluminum Alloys”, Published

Books Published

- Dr. K. Balamurugan , “Compliant Wcag 2.0 Assistive Platform To Improve Web Functionality” , Journal of Technology
- Dr. A.N. Balaji , “Mechanical Characteristics of Naturally Woven Coconut Sheath / Short Sisal Fiber Reinforced Polymer Hybrid Composites”, Journal of Polymer and Composites
- Dr. K. Balamurugan, "Entrepreneurship Development for the Beginners," Brown Page Publications, 2024.
- Dr.K.Balamurugan, "Manufacturing Processes," Brown Page Publications, 2024.

Dr. T. Premkumar, "Mechanical System and Artificial Intelligence," Brown Page Publications, 2024.

- Dr. R. Ashok Kumar, Dr. M. K. V. Karthikeyan, Dr. K. J. Nagarajan, "Engineering Graphics," Charulatha Publications, 2024.
- Dr. R. Ashok Kumar, "Mechatronics & IOT," Charulatha Publications, 2024.

Faculty Achievements

- Dr. A.N.Balaji – Laser Based Manufacturing (Mech) – Elite+Gold (Top 1%)
- Dr. T.Premkumar – Fundamentals of Manufacturing Process (Mech) – Successfully Completed
- Dr. R. Ashok Kumar – Product Design and Development (Mech) – Elite+Gold (Top 1%)
- Dr. Ashok Kumar R – Fundamental of Welding Science and Technology – Elite
- Dr. Sabarish S – Fundamental of Welding Science and Technology – Successfully Completed
- Dr. Eanest Jebasingh B – Roadmap for Patent Creation – Elite
- Dr. Sabarinath P – Fundamental of Welding Science and Technology – Elite + Silver

Industry visit by faculty members

Name of the Faculty	Name of the Industry / Research Institute / Research Lab
Dr.R.Ashok Kumar	Mohan Rubber Industries, Madurai
Dr.A.N.Balaji	Kwality coils product pvt ltd, Madurai
Dr.K.Balamurugan	Lakshmi Industry, Madurai
Dr.T.Premkumar	TAFE Tractors, Madurai
Dr.P.Sabarinath	Aruna Alloy steels pvt Ltd,Madurai
Dr.S.Sabarish	JK Fenner, Madurai
Dr.B.Eanest Jebasingh	Jayam Engineering and Tools,Coimbatore
Dr.V.Jeyabalaji	CRI Pumps, Coimbatore
Dr.N.Vimalkumar	TVS Sensing Solutions, Madurai
Dr.N.J.Vignesh	Southern Petrochemical Industries Corporation (SPIC), Tuticorin

DEPARTMENT OF INFORMATION TECHNOLOGY

May 2024 - APRIL 2025 Volume 2 Issue 1

Events organized

- IIC LOGO COMPETITION, 04 May 2024 Association activity – Project Expo using C/Python 31 August 2024
- Intra Codeathon Event 21 September 2024
- TECH SWORD-DEBATE 21 September 2024
- Python You-Know – Quiz Conducted by the Techtelligence Association, 05 October 2024
- Extension activity Program in "Essential Tech Skills for Non-Teaching Roles" on 20 December 2024

Publications

- Dr.J.Jeyaranjani, "Connected power domination number of product graphs", Discrete Mathematics, Algorithms and Applications, World Scientific Connect, 2024
- Dr.Sangeetha M, "Hybrid Mode of Crop Yield Prediction Using Various Machine Learning Algorithms", International Journal of Human Computations and Intelligence, Vol.3, No.2, 2024.
- M. Pandi, " Efficient Workload Allocation in IoT for Cloud Architectures for Energy Efficiency and Low Latency Using DEABC Algorithm", KSII Transactions on Internet and Information Systems, 2025

Books Published

- Dr. M. Sangeetha, Dr. Shaik Jaffar Hussain, " Computer System Architecture" by REST publishers

Students Achievements

- Elamathy E – The Joy of Computing using Python – Elite
- Kirthick Kumar N J – Python for Data Science – Elite
- Yoga Balaji V – Python for Data Science – Elite
- Chandra Kishore of III year IT attended internship interview at TVS Supply chain solutions, Madurai and grabbed the internship opportunity for 2 months from 16 Sep, 2024 to 15 Nov, 2024
- Chandra Kishore S of III Year IT – Research Paper Presentation in HEXAIVITA' 2025, organized by SIT, Madurai on 07 February 2025 – 1st Place (Rs. 1000/-)

Faculty Achievements

- Mrs. M.Nithyakalyani – Python for Data Science – Elite+Silver
- Dr. J Jeyaranjani – Python for Data Science – Elite
- Dr. M. Sangeetha – Python for Data Science – Elite

Industry visit by faculty members

Name of the Faculty	Name of the Industry / Research Institute / Research Lab
Ms.P.DivyaBharathi, Ms.R.Poornima @Priyanka	Hi-Tech Arai Pvt.Ltd, Madurai
Dr. J. Jeyaranjani, Dr. M. Sangeetha	TVS Srichakra Limited Vellaripati, Madurai

Students Participation

- Kalasalingam Academy of Research and Education / Kalasalingam University saw widespread student engagement across multiple events. Students participated in EUOHORIA – Techfusion Ideathon (26.03.2024), Prajanotsavah'2k24 (08.11.2024), Technical Conclave (07.11.2024), and the AI Sustainable Energy Workshop (07.11.2024). Participants include Aarthi G D, Akalya G, Annie Darling Kanmani A (Runner), Arun Sethupathy S, Dharani S, Elamathy E, Gayathri S R, Jeyasuriya RS, Karishma Sri K, Kirthick Kumar N J, Lithisna S, Nafha Hizana M, Ram Vishal G A, Sherni Infantia G, Srinithi M, Vishva M, V. Sujitha (Runner), Shanmathi S K B, and Siddharthan T. Their involvement demonstrates strong representation in ideathons, technical conclaves, and interdisciplinary workshops.
- Thiagarajar College of Engineering and Technology / Thiagarajar College of Engineering hosted and collaborated on events like Techutsav 2024 (13.03.2024), Techutsav-Innohacks'24, Te Huts Av 2024 (28.03.2024), and co-hosted the Techfusion Ideathon (14.07.2024). Participants from this institution include Hayagirivan S, Jagadha R, Karishma Sri K, Monika S, Poornimadevi R S, Ram Vishal G A, Saranya K S, Shanmathi S K B, Sherni Infantia G, Shrinithi T R, Siddharthan T, Vishva M, Srinithi M, and Yogeshkumar S. This reflects active student involvement in ideathons, hackathons, and intercollegiate tech events.
- PSG Institute of Technology and Applied Research organized Yukta 2k24 (16.03.2024), where students Agarshal Isai George J T, Mithun Balagi S, and Mohamed Irfan M participated,
- showcasing their interest in innovation and applied technologies.KPR Institute of Engineering and Technology held FIESTAA'24 (28.03.2024), with participation from Dhivya Sri S, highlighting interest in domain-focused events.
- Anna University, Guindy, Chennai hosted INDCON '24 (26.03.2024). Students Nivethitha P and Seetha Devi M represented their institution in this technical conference.
- Technoxian, Delhi held the All India Fastest Line Follower contest (25.08.2024), where Prasanna Kumar M participated, reflecting interest in national-level robotics and automation challenges.
- Kamaraj University conducted the International Technical Colloquium (Sep 9), where Shrinithi T R took part, indicating engagement in high-level academic presentations.
- Udemy (Online) facilitated a Master Course in Data Visualization and Data Warehousing (01.08.2024), which was completed by Mugeshwaran S, showing a proactive approach toward online certification and upskilling.

HackHive 1.0

The HackHive 1.0, Hackathon, held on 16th November 2024, was an outstanding event that brought together a dynamic group of students eager to showcase their skills in coding, problem-solving, and innovation. Organized for our internal students, the hackathon provided a platform to collaborate, learn, and compete in real-time challenges.

DEPARTMENT OF MBA

Events organized

- Workshop – Data analytics Using MS Excel For Empowering Business Skills, 30 November 2024
- Student Presentation – Business Quiz and Logo Presentation, 05 October 2024
- Industrial Visit to Aavin Manufacturing Unit, 08 October 2024
- Guest Lecture – Startup Roadblocks, 08 November 2024
- Seminar – Dealing With Set Backs and Failures, 26 November 2024
- HR Conclave – Transforming the Future of Work: Leadership, Innovation, and People-Centric Strategies – 26 March 2025



Publications

- Dr. B. Nandhini & G. Sindhu – Organisational Culture and Its Social Impact on Employee Commitment and Performance in Hyderabad Information Technology Companies, published in South Eastern European Journal of Public Health, 2025
- Dr. M. Pradeeba & Dr. K. Vasutha – E-Commerce and Public Health: Bridging Accessibility Gaps for Healthcare Products in India, published in South Eastern European Journal of Public Health, 2025

Books Published

- Dr. P. Murugan, Dr. B. Nandhini, Dr. L. Prakash Kannan, "Principles of Management" by Rchub Publisher
- Dr. B. Nandhini, "Nurturing Nari Shakti: Women as Leaders in Viksit Bharat@2047" sponsored by Sri Ramakrishna College of Arts and Science and ICSSR

Students Achievements

The MBA students of Viyugam 2025 participated in an event organized by Solamalai College of Engineering, conducted on 1st and 2nd of March, 2025. AKSHAYA. M secured the 1st Prize in Pixel Craft, while KRISHNAKANTH. A won 1st Prize in Alpha Leader, 2nd Prize in Pixel Craft, and 2nd Prize in Trash to Treasure. MUKILAN. JR earned the 2nd Prize in Trash to Treasure, SRIDHARAN. V secured the 2nd Prize in Pixel Craft, and MADHUMITHA. B took the 1st Prize in Pixel Craft.

Industry visit by faculty members

Name of the Faculty	Name of the Industry / Research Institute / Research Lab
Dr. M. Pradeeba, Dr. B. Nandhini	CIPET, Madurai
Mr.Vinothkumar	Quantanics Techserv Pvt Ltd, Madurai

Proposals Submitted

- Dr. B. Nandhini & Dr. M. Pradeeba – Indian Knowledge System (IKS) Research – A Study on the Relevance and Applicability of Chanakya's Arthashastra for Solving Current Management Problems in Indian Organisations

DEPARTMENT OF SCIENCE AND HUMANITIES

May 2024 - APRIL 2025 Volume 2 Issue 1

Events organized

- Three day Physics Conclave, 15 May 2024
- Online FDP on “Application of Differential Equations”, 15 July 2024
- Seminar - Opportunities and Strategies for securing National and International Fellowships, 20 November 2024
- Faculty Development Program – Unveiling Emerging Research Trends in Mathematics, 20-21 August 2024
- Webinar – The Art of Research Writing,
- 13 November 2024
- Seminar – Opportunities and Strategies for Securing National and International Fellowships, 20 November 2024
- Organized by Tamil Mandram
- A talk on “Meditation” by Tamil Mandram, 21 December 2024
- FDP – One Week National Level FDP on “Innovations in Mathematical Sciences: Theory, Tool and Applications” – From 20th January 2025 to 25th January 2025

Publications

- Dr. Gandhimathi .P, “VLC channel characteristics and data transmission model in indoor environment for future communication: an overview”, Journal of optics
- Dr.Anitha. S,”Mathematical analysis on novel coronavirus model using HPM”, E3S Web of Conferences
- Dr.Senthamizhselvi. M, “Effect of Solute Concentration on the structural,optical, and Surface properties of ZnO thin films”, Journal of optics, 2024.
- Dr.Prema Sumathi. R, “Switching number of the graph”, Journal of southwest jiaotong university,2024.
- Mr.Bimal Roy J, “Discovering Woman Self in Anita Nair's Ladies Coupe: An Analysis”, Education and Society, 2024.Dr.Rajkumar. S, “Synthesis, characterization, and evaluation of fluoride removal capacity of calcium-impregnated Euphorbia neriifolia carbon (Ca-Enc)”,Environmental Science and Pollution Research, 2024.
- Dr.Nagaraj K, “Advancing nutraceuticals in a promising frontier in modern healthcare” Food and Humanity, Elsevier, Vol. 3, 2024

Books Published

- Dr. R. Prema Sumathi, "Transform and Partial Differential Equation," Brown Page Publications.
- J. Bimal Roy, "Fundamentals of Professional and Technical English," Scientific International Publishing House.
- Dr.A. L Subramaniyan, “Nanotechnology for water treatment”

Students Achievements

Hackhive 1.0 - Winners

- I Prize: Thoufika K and Yoga Srinithi S (I AIDS) – Awarded for their outstanding innovation and problem-solving skills.
- II Prize : Varshida Kannivadi Balaji and Varsha Devi K H (I IT) – Recognized for their creative and effective teamwork.
- III Prize : Priyadharshan M C and Niranjan Kumar (I CSE) – Impressed the judges with their technical expertise and creative solutions.

DEPARTMENT OF SCIENCE AND HUMANITIES

May 2024 - APRIL 2025 Volume 2 Issue 1

Faculty Achievements

- Dr. Vinoth R – Technical English for Engineers (English) – Elite+Gold (Top 1%)
- Dr. R. Naganathan – Technical English for Engineers (English) – Elite+Silver
- Mr. Bimal Roy – Technical English for Engineers (English) – Elite
- Dr. ANUSUYA A – Advanced Calculus for Engineers (Maths) – Elite
- Dr. Anitha S – Advanced Engineering Mathematics (Maths) – Elite
- Dr. Senthamizh Selvi M – Solar Photovoltaics Fundamentals, Technology, and Applications (Physics) – Elite
- Dr. Vignesh N J – Fundamental of Welding Science and Technology – Elite
- Dr. Ananda Kumar – Electronic Waste Management – Issues and Challenges – Successfully Completed
- Dr. Senthamizh Selvi M – Design, Technology and Innovation – Elite + Silver
- Dr. Prema Sumathi R – Advanced Course in Graph Theory – Successfully Completed
- Dr. Rajkumar S – Electronic Waste Management – Issues and Challenges – Elite + Silver
- Dr. Malathy D – Nanotechnology in Agriculture – Successfully Completed
- Dr. Naganathan R – Employment Communication – A Lab Based Course – Elite

Proposals Submitted

- Dr. D. Malathy, "Promoting Wellness Through Accessible Health Centers Related to Tamil Nadu Health System Reform Program for Samudra Shakthi," SERB POWER, 15.02.2024, File No: mSPG/2024/002526.
- Dr. R. Prema Sumathi, "Empowering Madurai's Youth Skill Development for Future Ready Careers," ICSSR, 9/11/2024.
- Dr. R. Prema Sumathi, "Workshop on Vedic Mathematics for Engineering Mathematics Students," TNSCST, 15.07.2024 (Popularization of Science Activities).
- Dr. R. Prema Sumathi, "Maths Made Fun," TNSCST, 8.11.2024 (Popularization of Science Activities).

Industry visit by faculty members

Name of the Faculty	Name of the Industry / Research Institute / Research Lab
Dr.E.Mothi Paul, Dr.A.Kumaresan	Nova Carbons India Pvt Ltd, Tirunelveli
Dr.M.AnandaKumar, Dr.S.Sivaprakash, Dr.K.Poovendran	Thiagarajar Advance Research Center, Madurai
Dr.R.Manjula, Dr.G.Pandimeena	Abhilash Chemicals and Pharmaceuticals, Madurai
Dr. P.Gandhimathi, Dr. M.Senthamizhselvi	Madurai Kamaraj University, Madurai
Dr.S.Anitha, Dr.R.Prema Sumathi	The Gandhigram Rural Institute,Dindigul
Dr.K.Indira, Dr.A.Anusuya	N-Cardmath International Research Centre, Kalasalingam Academy
Dr.J.Philomenal Karoline, Dr.M.Angala Eswari	Ramanujan Research centre of Higher Mathematics, Alagappa University,
Dr.R.Naganathan, Mr.J.Bimal Roy	The Library, Ananda Rangapillai Library, Pondicherry University
Dr.K.R.Sujatha, Dr.R.Vinoth,	The American College Library (SCILET), Madurai
Mr.M.Vignesh	Ulaga Tamil Sangam, Madurai

OTHER ACTIVITIES

Women's Cell & NSS

Dr.PoornimaJeyasekaran, Assistant Professor, Food Science and Nutrition Department, The American College, Madurai has Elaborated about the need of balanced diet intake to perform daily tasks and maintain metabolic activities. She listed that a diet rich in vitamins (e.g., A, C, D) and minerals (e.g., zinc, iron) which enhances the immune system and protects against infections. The importance of calcium and vitamin D which are essential for preventing osteoporosis, especially post-menopause.





Institution Innovation Council

Dr. LoguThirumalaisamy Assistant Professor - Physics DST-FIST, coordinator Department of physics has presented the topic "Motivational session on "Opportunities and Strategies for Securing National and International Fellowships" Students involved in gaining insights about the Entrepreneurship, National and International fellowships. The resource person motivated the students by describing the story of Dr. Ramesh Raliya, the Entrepreneur and the nano urea scientist and his relationship with him. Participants engaged in interactive discussions and the key takeaways of the session are the national and international fellowships available for the engineering graduates, the importance of competitive and entrance examinations like GATE, research projects and internships available in and around the India.



CO-CURRICULAR ACTIVITIES

Chairman Trophy 2024 – State Level Inter-School Volleyball Tournament

Date: 30 August 2024 to 31 August 2024

Categories:

Boys' Teams: 15 Teams

Girls' Teams: 4 Teams

Anna University Zone-16 Inter-Collegiate Women's Volleyball Tournament

Date: 19 October 2024

Total Number of Teams: 7 Teams



Achievers

- **G.B.Karthik of II B.E ECE for achieving the SILVER MEDAL & Cash Prize Rs.2000/- in District Level Table Tennis Competition for"The Chief Minister's Trophy" held at Dr.M.G.R Stadium, Madurai on 15.09.2024.**
- **Ms.C.S.S.Raksha of B.E CSE(CS) and Ms.Rajeshwari of B.E ECE in District Level Table Tennis Competition for "The Chief Minister's Trophy" held at Dr.M.G.R Stadium, Madurai on 22.09.2024.**
- **Ms.C.S.S.Raksha of B.E CSE(CS) – Single winner and Double Runner-up (won cash prize of Rs.5000/-)**
- **Ms.Rajeshwari of B.E ECE – Single Runner-up and Double Runner-up (won cash prize of Rs.4000/-)**





ANNA UNIVERSITY ZONE -16 INTER-COLLEGIATE ATHLETICS MEET
B.AMIRTHA NIKASH



ANNA UNIVERSITY INTER-ZONE TAEKWONDO TOURNAMENT



THE CHIEF MINSTER'S TROPHY – 2024 – CARROM C.S.S. RAKSHA
Prize Amt. of Rs.75,000/-



A World Record attempt for Madurai District para Sitting Volleyball team



MOU

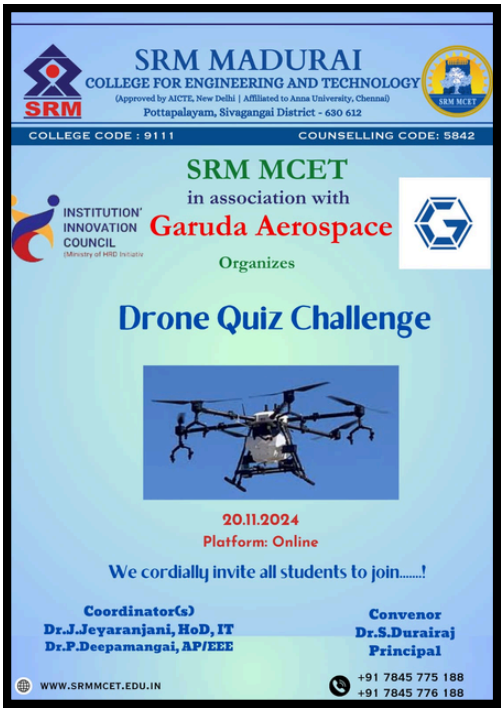
MoU

- ATAL Incubation Centre, Anna University Incubation Foundation
- Vodafone Intelligent Solutions
- VI micro System Pvt. Ltd.
- L&T Edutech
- IBM Skill build-EDUNET
- Garuda Aerospace

IBM Skillbuild Program on 8.11.2024



Garuda Quiz -Drone Challenge



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