

ANNUAL COLLEGE DAY REPORT 2025

Good Evening!

I am very glad to greet and welcome you all for the College and Sports day of our college.

I am extremely happy to welcome our honorable **Chief guest Shri. Rajeev Ranjan, DIGP, GC CRPF (Avadi)** who have kindly accepted our invitation to be with us on this occasion amidst their busy schedule.

With immense pleasure I cordially invite our **Chair Person and Managing trustee Tmt. Gomathi Radhakrishnan**, who has been the inspiration behind our success to preside over the function and bless all the students, it gives me great pleasure in inviting our respected **Chairman, Dr. Gautham Srinivas and Managing Director, Dr. Arvind Srinivas** who constantly supports and guides us in all our endeavors for the welfare of the institution.

I extend a very warm welcome to all the heads of various departments and other dignitaries on and off the Dias for having come to grace this occasion.

I also welcome all our faculty members who have always been the backbone of our students on this memorable day.

It is with great pride and gratitude that I present the Annual Report of Sri Muthukumaran Institute of Technology for the academic year [2024–2025]. This year has been marked by remarkable growth, academic achievements, and continued dedication to excellence in engineering education, research, and innovation.

REPORT FOR THE ACADEMIC YEAR 2024-2025

Sri Muthukumaran Institute of Technology is a Self-financing Engineering college located in the Kundrathur main road at around 15 km from the Chennai city and started in the year 1996. The Institution is approved by AICTE, New Delhi, affiliated to Anna University, Chennai. The Institute has got recognition from UGC under 2(f) and 12(B) scheme and participated in the National Institute of Ranking Framework (NIRF) process. Our college has also participated in the All-India Survey on Higher Education (AISHE). The college is in the 30th year of illustrious functioning and contributing to the cause of Engineering & Management Education. The Institution is accredited by National Assessment and Accreditation Council (NAAC) with “A” grade in the year Dec 2024. We offer 11 UG programs viz. B.E.-Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering and Information

Technology since 1996 and 5 UG programs viz. Biomedical Engineering, Robotics & Automation Engineering, Mechatronics Engineering, Artificial Intelligence & Data Science and Pharmaceutical Engineering since 2020. The **Eight** PG programs offered by us are: M.E. – Applied Electronics, Power Systems Engineering, Embedded System Technologies, Computer Science and Engineering, Computer Aided Design, Engineering Design, M.C.A-Master of Computer Applications and M.B.A-Master of Business Administration.

We have an excellent placement cell which helps our students to get placements in reputed companies through arranging internship programs and training programs. This academic year nearly **90%** of eligible final year students have been well placed with the annual salary package ranging from 3 lakhs to 7 lakhs. Our major recruiters include RANE, Stanadynr India pvt Ltd, TVS group, Motherson, Wheels India, Apollo tyres, Nippon Express, LG Electronics, Kerry Indev, Nibav, Samsung, ITW, Dhoot Transmissions pvt LTD, Samsung, Sakura Autoparts India pvt Ltd, Hyundai, Foxconn, Fuso, Corizo, LT Mindtree, Pyroferrous technologies, Yamaha Music Pvt Ltd, Workochol, SBI life, Schneider Electric, Ashok Leyland, Ranstad India pvt Ltd, LIJIN, Wonjin Autoparts India Pvt Ltd.

Our Institute have membership in various professional societies such as CSI, IETE, ASME, MMA, IEEE, ISTE etc, which help them to improve their knowledge and skill. Apart from these, each department has their own student association and active clubs which organize paper presentations, mini project competitions, workshops, symposiums and other co curricular activities.

Our institute has Centre of Excellence in Electric Vehicle (EV) Design, Testing and Validation Hub. Through this CoE various training programs has been given to students for comprehensive understanding of EV Technology.

Our Institution also has centre of excellence in AR-VR Technology where various training programs have been arranged for students to familiar with the AR-VR technology and its applications in various fields.

At this juncture I am very proud to share the various programmes organized by various departments during the last academic year

The Department of Artificial Intelligence and Data Science was established in the academic year of 2020-2021 with an intake of 60 Students. The department has well infrastructure Class rooms, Library and fruitful experienced Faculties. The Department of Artificial Intelligence and Data Science has highly configured i7 & i9 systems with 200 Mbps Broadband Internet connected laboratory. The department has Artificial Intelligence Laboratory, Machine Learning Laboratory, Data Science Laboratory, Digital Forensics Laboratory and 3D printing Laboratory. AI-DS students regularly visit top-

tier companies and research facilities to gain practical exposure and understand real-world applications of AI & DS. **Recent Industrial Visits Include:** Sans bound Networking School, Chennai – Exposure to enterprise Networking systems, HCL, TCS, Virtusa. Final year students project papers have been selected to present their new findings at the IEEE Conference, a prestigious international platform for innovations in Engineering and technology. IEEE paper highlights "AI-Powered Crop Monitoring System Using IoT & ML" published in IEEE Xplore 2024. "Deep Learning-Based Emotion Detection from Video Streams" published in IEEE International Conference, "Predictive Analysis of Urban Traffic Patterns using Big Data" published in IEEE Smart Cities Symposium. Every student is well-prepared for the corporate world through mock interviews, resume preparation workshops, and internship support. **Top Recruiters:** Workcohol – 9 final year students got placed with 5LPA. Corizo - 5 final year students got placed with 6LPA. Infosys, Accenture, Cognizant and Zoho.

The Department of Bio Medical Engineering was established in the year 2020. It has well established laboratories, Students will become familiar with all labs, outfitted with all facilities over the course of their studies. Faculty have attended FDPs on "Sensor and Measurements", "Medical data analysis using machine learning and deep learning techniques", "Emerging computational Intelligence and Optimization Techniques in Healthcare", "Neuro-rehabilitation and stroke Management", "Concepts & Goals of Synthetic Biology" in various reputed colleges. Faculty have published Research papers in IEEE and Scopus indexed Journals. Students have undergone Internships, Industrial visits to companies like Deepam Hospital, Atheneapandian Pvt.Ltd, Matrix Laboratory, International Institute of Biotechnology And Toxicology, Retech Solution Pvt Ltd and Restech Formulations Pvt Ltd Pondicherry. The department also organised a National Level Technical Symposium "MICA '24". Students of BME presented their mini project work at undergraduate research meet conducted at SRM University. BME Students participated in TechYugam project expo at Vel Tech Multi Tech, Avadi. Faculty have successfully completed the NPTEL course and received certification with ELITE / SILVER. The Department has organized one day workshop on "Syringe and Infusion Pumps: Handling Procedures." A Guest Lecture has been organized by the department on "The Intersection of AI and Health care: Transformative Advancement. Five-day FDP has been organized by the department on Challenging and opportunities in Biomedical Engineering and Research.

The Department of Civil Engineering was started in the year 2011 with an intake of 60 Students. The department has well equipped laboratories and highly qualified faculty. The department organizes Guest Lectures, Workshops & Seminars on various topics such as 'Career Opportunities for

Civil Engineers', 'An Innovative Project-Future Thinking and Start up Policy" & "Intellectual Property Rights". Students have arranged Industrial visits, Survey Camp and undergone internships. Faculty have attended various Faculty development programs organized by AICTE, Anna University etc. Staff and students have completed Swayam NPTEL online courses with Gold and Silver. Dr. S. Manikandan and Mr. R. Sivaji have published papers in reputed Journals and indexed in Scopus and Web of Science databases, published patents. Dr. S. Manikandan have been chair in International Conference and delivered expert talks in reputed colleges. Dr.S.Manikandan, Mr.R.Sivaji, Mr.A.Venkateshan published book titled "Building Information Modelling (BIM) for Civil Engineering, Transforming Project Design and Management". Mr.R.Gopalakrishnan published book titled "Principal of Management". Mr.R.Sivaji published book titled "Railway, Airport and Harbor Engineering". Dr.S.Manikandan published patents titled "AI – Based Environment and Soil Analyzing Device for Agriculture and Nanoparticle" – Integrated AI Model for Predictive Maintenance of Mechanical & Civil Structures. Mr.R.Sivaji published patent on title "AI – Powered Device for Smart Construction Monitoring and Optimization".

The Department of CSE has organized various workshops, seminar related to "CYBER SECURITY", CLOUD COMPUTING by experts from leading industries like, Amazon, Cogxta Technologies Private Limited. More than 50 publications have been made by the faculty and students in different Journal and Conferences. Staff and students have completed Swayam NPTEL online courses with Gold and Silver. Student **Clubs & Association** has organized Coding activity in various Programming Languages like C, C++, Java and Python. Students have gone industrial visits to Aero Knots Drone India Pvt Ltd, AICL-Tek Meadows, Chennai. Faculty have attended FDP in "Distributive Technologies of Computer Science", "Machine Learning in the age of AI: Algorithms", Deep Learning, Full Stack Development. Webinar in "Chandrayaan: Unraveling Lunar Mysteries a Journey of India's Success", "Automotive Communication Protocols", "Data Science and Management of Data". Department Students got 3rd Prize in Hackathon at IIT, Chennai. Mr. A ALLEN ROYAN, IV CSE was Participated in "Umagine-25 Meet" at Chennai Trade Center on 09.01.2025. Final year students undergone one month INTERNSHIP in HCL TECH, Chennai, Third year CSE students were participated in Automation Exhibition at Chennai Trade Centre on 06-03-2025. Second year and third year CSE students went an Industrial visit in Aero Knotz. Sriram II CSE, RAMYA II CSE, AND PADMAYAPRYA II CSE won first prize in "guest the lyrics competition" conducted by Peri institute of technology, Chennai on 27.03.2025. Mrs.R.Vanitha Mani AP/CSE published a paper entitled 'Smart hydroponic greenhouse enhanced with the application of the internet of things. Mrs.S.P. Audline Beena, and Mrs. T. Saranya has got UK Design Patent publication entitled "**AI based house intrusion detection**

device”. Mrs.R.Vanitha Mani, published Patent titled on “design and development of a disaster relief Drone network with cutting – edge Aerial Technology”.

The Department of ECE under the aegis of “Embedded and IoT Club” organized workshops on the topics like “Social Entrepreneurship”, “Cyber Security”, Seminars on recent topics like “IOT and Embedded Systems”, “Python Programming & Applications”, “Block chain applications” by eminent speakers from reputed companies like Flextronics, L&T Infotech, HCL technologies & CADD Livewire etc., All faculties have attended Faculty Development Program/ Workshops/ National Seminar organized by AICTE/ ATAL, Naan Mudhalvan, Anna University & NPTEL in areas related to **Cadence EDA Tools, Chip Design, AI Based Advanced Sensor design**. Faculties have successfully completed the NPTEL course and received certificates with Silver. Faculty has published papers in International Journals and IEEE Explore conferences and they have also filed patents. The students of ECE Department have actively participated in various events like symposium, workshop, and technical Paper Presentation and won various prizes from various colleges. Mr. V. Parthiban published book on “Network Security”. Mr.Praveen secured second prize in Ball Badminton in men’s single held at VIT Chennai. Students have won prizes in extra-curricular activities like speech competition, Drawing and Power point presentation. Students participated in Poster Presentation in Saveetha Engineering College and won cash award. Students have undergone internship training in VI micro systems, NSIC, Adventure Technology Solutions Pvt. Ltd and gone industrial visits to BSNL, HTL ltd, Thermal Power Station, Ritech solutions. Department of ECE Organized symposium “PARADOX’25” in which various events like technical quiz, Circuit Debugging, Paper presentation were conducted. Department of ECE Organized Seminar on “Career opportunities & Perspectives of Engineering Professionals”. Mr. V.Parthiban, Mrs.D.Jagadeeswari, Mr.V.Praveen published patent “Integrated Smart Sensor Network for Environment Monitoring”.

The Department of EEE organized - Anna University Sponsored FDP on “Design of Electric Vehicle Charging System” and received a fund of Rs.35000/- Innovative and patentable project like **“Solar Powered Radio-Controlled Glider”** and **“Solar Car”**, etc. has been developed. Faculties have attended ATAL FDP on “The Role of Artificial Intelligence and Machine Learning in Electric Vehicle”. Students have undergone Internships to Adventure Technology Solutions Pvt. Ltd, KNR Engineers (India) Pvt Ltd., and Industrial visits to BSNL, VOLTECH Engineering Pvt Ltd., HTL Ltd., North Chennai Thermal Power Station. **TESLA TECH CLUB has organized** Intra Department Crossword Expedition, Fruits and Vegetable Carving Competition. Seminars/ Hands on training/ Workshops are

arranged in topics related to “IoT” & “Embedded System”, Embedded IoT Product Development, Electrical Systems in Large Industry and Career Development Program in association with reputed companies and Alumni. Students of EEE department participated in Anna University Zonal cricket match and got runner up. Department of EEE Organized symposium “SYNCHRO’25” in which various events like Electrical treasure hunt, Paper presentation, IPL Quiz were conducted. Mrs.P.Vanitha published three papers in IEEE Conference and Scopus indexed. Mrs.K.Shanthi and Mrs.C.Devika published patent on “IoT Driven wearable device for ECG continuous monitoring system”. Mrs.K.Shanthi Successfully completed NPTEL course on “ Effective Engineering Teaching in Practice” and “Facts Devices” and got Silver certificate. Mrs.C.Devika Successfully completed NPTEL course on “ Effective Engineering Teaching in Practice”.

The Department of Information Technology has well experienced faculty and established laboratories with recent software and hardware. Ms.J.Monisha secured University 7th Rank with 9.15 CGPA. Dept has organized many workshops/ seminars on topics “Online Bus Ticket Booking Coding using Python”, “Machine Learning”. Faculties have attended Faculty Development Program in “Ingage Technologies”, “Internet of Things” and “EDUNET Technologies” associated with NAAN MUDHALVAN Tamil Nadu, Skill Development Corporation. Students have gone Industrial Visit to BSNL, Guvi Systems and undergone internships in reputed companies like Ajantha Technologies, Tech Solution System, Shiash Info Solutions Private Limited. Faculty have successfully completed the NPTEL course and received certification with ELITE / SILVER. Mrs.S.Dhanalakshmi, HOD/IT, published the book on “Foundation of VLSI Design and Circuit Implementation”. IT Department faculty members Mr.A.G.Ignatius, Mr.N.Senthil Kumar and Mrs.R.Romila produced 100% Anna University Results in Nov/ Dec 2024 Examinations. Department of IT Organized symposium “Netcruz’25” on 4th April 2025. Students have actively participated in various Technical and Non-Technical Events and won cash awards and prizes. Second year IT students Mr.R.Raghuraj and Mr.K.Sagithan have participated in the CM Trophy for Athletics.

The Department of Mechanical Engineering organized Seminars and Workshops on the topics like “Industrial Automation”, “Renewable Energy Sources” by “Cluster Energy Power solutions and Services”, “Digital Prototype using CAD/CAM/CAE, Workshop on Modelling in living room Using 3D Studio Max”, “Modelling on Butterfly Valve Assembly Using SolidWorks”, “Clay Modelling of Automobile Exterior Cases”, “Traffic Awareness Program”. Students have undergone internships and industrial visits to companies CIPET, Accurate Products Corporation private limited, Anna University (Makers lab) VIRUKSA, TVS Pvt Ltd, INTEGRAL COACH FACTORY (ICF), CIPET. Faculty

attended ATAL FDP and conference on “Ansys Academic Innovation Conference”, Webinar organized on title “Joining of sheet metals used in Aerospace and Automotive sectors” and “Role of IoT in Sustainable Urban Wellness”. One day workshop on “Additive manufacturing-3D Printing” was conducted and students got benefited. CAD for design & manufacturing seminar conducted by the mechanical department.

The Department of Mechatronics and Robotics and Automation was established in the year 2020. Seminars and Workshops were organized on the topics like “Back-to-Back Drawing”, “Ansys for testing & analysis”, “Patent Filing Procedure (IPR)”, “Modelling Workshop on Butterfly Valve Assembly using Solid works”. Students have undergone internships and industrial visits to companies PINDOT, Pan Tech E-Learning, ABT Maruti, Carriage and Wagon Works, Southern railways, SCIDA FOREST, Apollo Tyres, Royal Enfield, CIPET, Accurate Products Corporation private limited, Anna University (Maker’s lab). Students and faculty have published papers in Scopus, Web of Science such as Energy Sources, Journal of Energy Storage journals. **Mr. J. Dinakaran** has published patents titled “Enhanced Battery Management system using Machine learning Algorithms” and **Ms. S. Sridevi** published Book titled, “Artificial Intelligence and Machine Learning”. Faculty have successfully completed the NPTEL course and received certification with ELITE / SILVER. Mr. Eastus Russel published patent titled “Autonomous Robotic system with IoT-based Electrical control and Mechanical Movement”, recently defended his PhD public viva-voce examination and got PhD. Mr. J. Dinakaran published patent titled “AI Assisted Smart Grid management system for energy optimization”.

The Department of Pharmaceutical Technology was established in the year 2020. It is fully equipped and established laboratories with advanced equipment have to align with Anna University requirements. Seminars and Workshops were organized on the topics like “**Awareness Program on Gate Exam 2024 & Its Opportunities**”, Students attended Internships and Industrial visit to “NTK PHARMA”, “Axon drugs Private Ltd”, “Sai Mirra Innopharm private limited”, “Deepam Hospital” and Restech Formulations Pvt Ltd Pondicherry. Students participated in “Global Colloquium on Oncology Research and Therapy in the topic **Education and Research towards Tumour eradication**, Inter-Collegiate Seminar on “**India 77**” conducted by Yuva Sakthi. **Ms. Vijayalakshmi** have published papers in Scopus indexed Journal, UGC Care, Book Chapter Titled “Kinetic Modeling of Agarose Immobilized Biomass of Anabaena for the NI(II) Recovery” in Book of “**Frontiers in Life Sciences: Present Development and Future Directions**”. Ms. M. S. Vijayalakshmi have successfully completed the NPTEL course on “Effective Engineering Teaching in Practice” and received certification with ELITE

SILVER and published patent also. Students got placed in Tychos Therapeutics Pvt Ltd, as QC Engineer in the Department of Quality Control. The Pharmaceutical Department Organised a National Level Technical Symposium “MICA’24” in association with BME department. The Department of Pharmaceutical Technology Organised a Seminar on “Stroke Awareness Basic Life Style Module About Stress Management” - Resource person: Dr. Shriram Varadharajan, Neuroradiologist, Kauvery Hospital, Chennai.

The Department of Science and Humanities organized seminar in “World No Tobacco Day”, “Wall Magazine competition” about the importance of voting. Faculty members have published many research articles in different Journal and Conferences and Books on different titles. Mrs. K. Macharegai HoD/S&H and Mrs. R. Sheela Amalraj AP/Mathematics published a book “**Titled: Statistics and Numerical Methods**”. Dr.P.Surendar Anand Ap/Chemistry published a book “**Titled: Engineering Chemistry**”. Dr.P.Surendar Anand Ap/Chemistry published a **patent titled** Dwindling The Effect Of Textile Dyes Using Trianthema Portulacastrum Extract Mediated Silver Nanoparticles. Various activities and seminars are organized in association with reputed organizations such as **Heartfulness Institute** under the banner of “Fine Arts Club”. Faculties have achieved 100% results in University Examination. Dr. M. Paranthaman AP/Tamil Produced 100% result in “Heritage of Tamil”, Mrs.A.Kanimozhi, AP/English Produced 100% result in “Professional English-I”, Mrs.V.Amudha, AP/English Produced 100% result in “Professional English-I”. Faculty have successfully completed the NPTEL course and received certification with ELITE / SILVER and GOLD. Mrs. K. Macharegai HoD/S&H, Mrs. R. Sheela Amalraj AP/Mathematics, Mrs. R. Nathiya AP/Mathematics and Mrs.R.Ramya, AP/English got cash prize from the College/Management. The Department of Science and Humanities organized “2K2 Gala Program”, “National Mathematician Day”. Industrial visits to CRPF, Planetarium, and Yoga center have been arranged for the students.

The Department of Master of Business Administration has organized “Corporate Rangers”, “Journal presentation event”, Seminar on “Unboxing the Trends and Challenges in Recruitment”, Symposium “INNOVIX 24”. Students have gone Industrial visit to companies Aavin, Financial Consultants etc. Faculty have attended Five Days Workshop on “Foundation of Stock Market for Beginners”, “Transforming HR Practices in the Digital age”, Workshop on “Recent trends in financial and securities market - A 360 Approach”, Five Days FDP in “Outcome based Education (use of AI tools in Teaching and Learning)”, Seven days (MDP) Management Development programme on “Management Analytics”. The students and staff members have published papers, in National and International

conference in various colleges. Dr. S. Chitra Devi have published book titled “E-Business Management” and published research paper titled “Relationship between Organization Effectiveness”, “Climate and its Predictors among IT Sector” in Multidisciplinary handbook of Social Exclusion Research.

The Department of Master of Computer Application inaugurated “HUMANOID INTELLIGENCE CLUB” by Mr. C. Karthikeyan, co-founder of BU SOFT TECH, Chennai. Department organized Guest Lectures / Seminars, in topics such as “FIVE T’S OF TOASTMASTERS”, Inter department event. Celebrated world book day and arranged Book Fair. II Yr. MCA student Mr V.PARTHIBAN won kickboxing and got 2 gold medals in district level, got 2 gold medals in state level championship, got 3 silver medals in National championship and also participated in WAKO INTERNATIONAL KICKBOXING in Pune and Maharashtra. Industrial visits and Internship programs are arranged in companies like NETWORK GEEK, The Mind IT, Cloudnow, Cognizant, Virtual tech services, DLK etc. **FACULTY AND STUDENTS** have published papers in International Journals. Faculty have successfully completed the NPTEL course and received certification with ELITE / SILVER.

Students of SMIT are not only well versed in academics but they have been showing active participation and have won awards and prizes in Sports and Cultural events organized by various colleges/ universities and bring many laurels to our institution. We have wonderful rapport with our alumni who also help us in placements and other training programmes. Memorandum of Understanding is signed with various companies to transfer knowledge and developing skills.

I hope I have given you all a glimpse of the achievements of faculty and students of our institution. I would like to extend my heartfelt thanks to the management, faculty, staff, students, parents, and stakeholders for their continuous support. Together, we aim to uphold the legacy of excellence and strive for even greater heights in the coming year.

Thank you.



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