

M. Tech (Automotive Technology) with specialization in Electric & Autonomous Vehicles

in Collaboration with **ARAI ACADEMY
Automotive Research
Association of India, Pune**



VISION

To be one of the world's esteemed education & training academics for advanced education & research in the field of mobility engineering



MISSION

To train, educate and enrich knowledge base of mobility engineers through Industry-Academia interaction with an aim to develop human resources for ever expanding mobility sector

Objective

To develop a new breed of automotive engineers required for the task of design, development & validation in the automotive industry with the perspective of ACES (Affordable Solution, Connected & Shared, Environment Friendly & Energy Security and Safer Mobility). The second year session will be at ARAI, Pune.

Details of M. Tech. Course at SRMIST / ARAI

CORE SUBJECTS:

Computational Methods in Engineering
Automotive Mechanical Systems
Automotive Electrical and Power Electronics
xEV Architecture (incl. Batteries, Fuel Cells & Super Capacitors)
Control Systems & Instrumentation
Energy Storage & Management
Intelligent Algorithms (Incl. AI & ML)
Control System Algorithms
Research Methodology
Career Advancement For Engineers
Sensors, Actuator and Signal Conditioning

SPECIAL / ELECTIVE SUBJECTS:

Vehicle Dynamics and NVH
Automotive Testing and Certification
Automotive Embedded System & Communication Protocols
Autonomous and Connected Vehicles
Modelling and Simulation of xEVs
Intelligent Transport Systems
Advanced Communication Protocol
Minor Projects (Based on Python, MATLAB, Simulink, Linux, CFD, Electric Vehicle Software & HIL)
Major Project (Thesis) at Industry / ARAI / University.

Eligibility Criteria

B.E./B. Tech/AMIE in Mechanical/Automobile/Production/ Electrical/Electronics/Mechatronics Engineering with valid SRMIST Entrance Exam score. Preference will be given to GATE qualified and industry sponsored candidates.

Total Number of Seats: 30 Nos.

Course Duration: 2 years

Selection Criteria: Written Test & Interview.

Tuition Fees: Rs. 1,74,400/- for First Year & Rs. 1,96,525/- for Second Year

*For sponsored and NRI students, refer website for more details.

Infrastructure

SRM Institute of Science and Technology (SRMIST), formerly known as SRM University - where you have the freedom to take wings. SRMIST is one of the top ranking universities in India with over 52,000 full time students and more than 3200 faculty across all the campuses - Kattankulathur, Ramapuram, Vadapalani Campus - all in and around Chennai and Modinagar, NCR, Delhi - offering a wide range of undergraduate, postgraduate and doctoral programs in six Faculties – **Engineering & Technology, Management, Medicine & Health sciences, Science & Humanities, Law and Agricultural Sciences**. SRMIST has been accredited by NAAC with the Highest 'A++' Grade in the year 2018, valid for the next 5 years. SRM IST is placed in Category I with 12 B Status by MHRD-UGC. Department of Automobile Engineering was established in the year 2004. This is an industry driven department nurtured with young & dynamic faculty members. The department functions hand in hand with the industries for the development of laboratory, projects, teaching and research.

The Automotive Research Association of India (ARAI) is well-known Automotive Research, Development, Testing & Certification Institute in the country. The skill development initiative of ARAI is ARAI Academy, located in the middle of industry at Chakan. It has classrooms and various laboratories like Automotive Engineering System, IC Engines, Alternative Fuel, Noise & Vibration, CAED, Simulation, Automotive Electronics & Embedded Systems, GTEM, HIL Lab etc. The students are exposed to the latest trends, which help them to meet the requirements of Automotive Industry.

HOW TO APPLY

Application forms can be downloaded from SRMIST website or can be obtained by contacting us.

The Director (Admissions),
The Directorate of Admissions,
SRM Institute of Science and Technology,
Kattankulathur, Chengalpattu District, Tamil Nadu - 603203.
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