

## 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.

