

offers

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

in collaboration with

### The Automotive Research Association of India (ARAI), Pune, India

#### Objective:

This programme intend to develop a new breed of automotive engineers who are ready to fulfil the requirements of Automotive and its allied Industries.

#### About us:

**SRM Institute of Science and Technology (SRM-IST)**, formerly known as SRM University) 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 in 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. 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 was started in 2004 through the department ARAI Academy with the aim of bridging the gap between industry and academia. It is located in the industry hub at Chakan, Pune. ARAI Academy is conducting Graduate, Post Graduate, PG Diploma & Ph.D programmes in collaboration with various universities in India. It is equipped with labs such as Engine, Automotive Engineering Systems, Automotive Electronics & Embedded system, EMI & EMC, Noise & Vibration, EV & EHV, AI-ML, etc. where students can gain hands-on experience. The students are exposed to the latest trends in automotive technologies which help them to meet the requirements of Automotive Industry.

#### Courses Offered:

##### CORE COURSES:

- Advanced Mathematical Methods
- Automotive Mechanical Systems
- Automotive Electrical Systems
- Power Electronics (includes Motors and Drives for EVs)
- Control Systems & Instrumentation
- xEV Architecture (incl. Batteries, Fuel Cells & Super Capacitors)
- Automotive Embedded System & Communication Protocols
- System Engineering & Integration
- Vehicle Dynamics and Control

##### SPECIAL / ELECTIVE COURSES:

- Noise, Vibration and Harshness
- Testing & Certifications for xEVs
- Intelligent Algorithms (Incl. AI, ML & Control Systems)
- Autonomous and Connected Vehicles
- Intelligent Transport Systems
- Modelling and Simulation of EHV's
- EMI/EMC
- Mini Projects (Based on CAD/CFD, Python, MATLAB, Electric Vehicle Software & HIL)

**Degree:** The final degree is awarded by SRM-IST, Chennai in association with ARAI, Pune

#### Eligibility Criteria:

**B.E. / B.Tech / AMIE in Mechanical / Automobile/ Production/ Electrical / Electronics Engineering.** 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 1<sup>st</sup> Year & Rs. 1,96,525/- for 2<sup>nd</sup> Year \*For sponsored and NRI students, refer website for more details.

#### HOW TO APPLY

Candidates can apply online through the link: <https://applications.srmist.edu.in/m-tech>

#### Contact Details:

The Director,  
Directorate of Admissions,  
SRM Institute of Science and Technology,  
Kattankulathur, Chengalpattu District,  
Tamil Nadu - 603203. Ph.: 080 6908 7000  
[www.srmist.edu.in](http://www.srmist.edu.in) | <https://www.srmist.edu.in/admission-india/>