

# SRM Institute of Science & Technology Chennai, India



offers

## B. Tech. Automotive Engineering with specialization in Electric & Hybrid Vehicles

in collaboration with

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

### Objective:

This programme is to make the student conversant with fundamentals of automotive systems and to develop their competencies in performance analysis of vehicles.

### 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. Equipped with labs such as Engine, Automotive Engineering Systems, Automotive Electronics & Embedded system, EMI & EMC, Noise & Vibration, etc. 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.

### About the Programme:

#### CORE SUBJECTS:

- Thermodynamics
- Manufacturing Technology for Automotive Engineers
- Automotive Components and Assembly drawing
- Mechanics of Solids
- Applied Thermal Engineering for Automotive Engineers
- Fluid mechanics
- Automotive Engines
- Material Technology
- Machine and Mechanisms
- Vehicular Structures and Driveline Systems
- Automotive Electrical and Electronic Systems
- CAD Analysis for Automotive Engineers
- Design of Automotive Components
- Vehicle Dynamics

#### SPECIAL / ELECTIVE SUBJECTS:

- Alternate Powertrain Technology
- Power Electronics for Electric Vehicle Application
- Motor Drives and Control Systems
- Energy Storage System for EHVs
- Modelling and Control of EHVs
- Autonomous and Connected Vehicles
- Sensor, Actuators and Signal Conditioners
- Automotive Embedded Systems
- Machine Learning Approach for Automotive Applications
- Thermal Management System for EHVs
- Automotive NVH for EHVs
- Testing and certification of EHVs

### Eligibility Criteria:

- The minimum qualifying aggregate is 60% marks in XII Class.
- Admission to the B. Tech program will be purely based on performance in SRM-IST Entrance Exam (SRMJEEE).

**Total Number of Seats:** 30 Nos. | **Course Duration:** 4 years  
**Selection Criteria:** Written Test  
**Tuition Fees:** Rs. 2,63,500/ each for I, II & III years and Rs. 2,85,625/ for fourth year

### HOW TO APPLY

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



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/>



Dr. S. A. Patil  
General Manager - ARAI Academy  
ARAI FID, Plot No. B-16/1, MIDC, Chakan,  
Taluka Khed, Pune-410501.  
Ph: 02135-396662/75, Email: [sapatil.pga@araiindia.com](mailto:sapatil.pga@araiindia.com)  
[www.araiindia.com](http://www.araiindia.com) | [academy.araiindia.com](http://academy.araiindia.com)  
Student Helpdesk Number: 02135-396686

