

## B. Tech. Automobile Engineering

in collaboration with

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

### Highlights:

This unique program is hand crafted to bring in required special knowledge and desired skills. The program offers the depth of theoretical subjects, aptly supported by full-fledged hands on experience. The course focuses on new and emerging sustainable automotive technologies, such as hybrid electric vehicles, battery electric vehicles and fuel cell vehicles.

### About us:

**Chitkara University (CUPB)** is located just 30km from Chandigarh. It offers a world of learning that will help you reach your goals, opportunity to get placed at one of the 1000+ companies that visit for campus recruitment. Learn from an outstanding faculty at our state-of-the art teaching facilities. Choose from our varied industry endorsed programs. Breakthrough programs. Rising rankings. Outstanding alumni network. Highly rated academic credentials. Unlimited opportunities to embark on research from day one. Experience global education with 250+ foreign University partners. Kickstart your startup idea at one of the largest University Incubators.

**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 in the Programme:

#### Core Courses :

- Mathematics
- Thermodynamics
- Manufacturing Processes
- Design Thinking
- Strength of Materials
- Automotive Vehicle Systems
- Fluid mechanics
- Automotive Engines
- Material Technology
- Rigid Body Dynamics
- Industrial Automation & Robotics
- Deep Learning
- Automotive Manufacturing
- Automotive Electrical and Electronics
- Artificial Intelligence

#### Specialized Courses:

- EV Thermal Systems
- Automotive Mechatronics
- Electric and Hybrid Vehicles
- Energy Storage Systems for EV
- Battery Management System
- Vehicle Dynamics and Aerodynamics
- Modelling and Simulation of EHV
- Testing and Certification of Vehicles

**Degree:** The final degree is awarded by CUPB, Punjab in association with ARAI, Pune

### Eligibility Criteria:

- XII passed with a minimum aggregate of 55% or secures 55% in Physics, Chemistry and Mathematics in Class XII, JEE-MAINS 2022 [Feb/Mar/Apr/May] mandatory.

**Total Number of Seats:** 60 Nos.

**Course Duration:** 4 years

**Tuition Fees :** Rs. 90,000/- Per Semester + Other fees

### HOW TO APPLY

Admission details can be availed by visiting: <https://admissions.chitkara.edu.in/login>



### Contact Details:

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