DEPARTMENT OF AUTOMOBILE ENGINEERING

B.Tech. Automobile Engineering

Programme Educational Objectives

The Under-graduate Programme in Automobile Engineering will be able to

- 1. Provide a strong foundation in mathematical, scientific and engineering fundamentals that enable the students to formulate, analyze and solve engineering problems and to prepare them for graduate studies
- Apply knowledge and concepts of automotive technology to synthesize data and solve multi-disciplinary engineering problems
- 3. Continue to work as part of teams for successful career in automotive and ancillary industry that meet the needs of Indian and multinational companies
- 4. Undertake research and development projects with multi-disciplinary approach which are cost effective and efficient so as to resolve automotive engineering issues of social relevance
- 5. Demonstrate their professional, ethical and social responsibilities for a successful professional career and contribute their part for addressing various global issues

Program Outcomes

The Student of Automobile Engineering will be able to

- a) Apply acquired knowledge from undergraduate engineering and other disciplines to identify, formulate and present solutions to technical problems related to various areas of Automobile Engineering.
- b) Learn advanced technologies and analyze complex problems in the fields of Automobile Engineering.
- c) Design and implementation of Automotive systems using Auto CAD/CREO/ANSYS/CATIA
- d) Address specific problems in the field of automotive system design in the form of mini projects, analysis, and interpretation of data and synthesis of information to provide valid conclusions.
- e) Use the techniques, skills, latest Modelling / Design / Analysis / Simulation tools, software and equipment necessary to evaluate and analyze the systems in automotive design environments.
- f) Understand and commit to professional ethics, social responsibilities and norms of engineering practice.
- g) Develop confidence for self-education and imbibe professional values for lifelong learning.
- h) Demonstrate effective oral and written communication skills in accordance with technical standards.
- i) Become knowledgeable about contemporary developments.
- j) Ability to correct the mistakes effectively and learn from them to become good leaders.
- k) Understand the scenario of global business.

Program Specific Outcomes

After completion of the programme the student is able to

- Apply acquired knowledge from undergraduate engineering and other disciplines to identify, formulate and present solutions to technical problems related to various areas of Automobile Engineering.
- II. Learn advanced technologies and analyze complex problems in the fields of Automobile Engineering.
- III. Design and implementation of Automotive systems using Auto CAD/CREO/ANSYS/CATIA
- IV. Address specific problems in the field of automotive system design in the form of mini projects, analysis, and interpretation of data and synthesis of information to provide valid conclusions.