

Date: 10.05.2021

MINUTES OF MEETING OF THE BOARD OF STUDIES IN AUTOMOBILE ENGINEERING

The meeting of the Board of Studies in Automobile Engineering (PG) of the Department of Automobile Engineering, School of Engineering, VISTAS held on 10.05.2021 through Google meet to discuss the **revision of PG Program Curriculum & Syllabus** of M.E. Automobile Engineering

Members Present:

1. **Dr. L.KARIKALAN**, Associate Professor and Head,
Dept. of Automobile Engineering, VISTAS, Chennai (**Chairman**)
2. **Dr. S.SATHISH**, Associate Professor, Dept. of Mechanical Engineering,
Hindustan Institute of Technology and Science, Chennai (**Academic Expert**)
3. **Mr. JEROME PETER MOHANDAS**, Chief Executive Officer,
Jerry Motor Company, Chennai (**Industrial Expert**)
4. **Dr. M.CHANDRASEKARAN**, Director – Mechanical,
Dept. of Mechanical Engineering, VISTAS, Chennai (**Internal Member**)
5. **Dr. S.RAMASUBRAMANIAN**, Assistant Professor,
Dept. of Automobile Engineering, VISTAS, Chennai (**Internal Member**)
6. **Dr. M.RUBAN**, Assistant Professor,
Dept. of Automobile Engineering, VISTAS, Chennai (**Internal Member**)

Objective of the Revision:

- To develop the curriculum based on Choice Based Credit System (CBCS).
- To consider present trend in the respective fields and industry relevant interdisciplinary courses.
- To implement the guidelines and suggestions of the new education policy while preparing the curriculum.
- To eliminate the obsolete syllabus contents and introducing the latest/ updated technologies, new knowledge and practices.
- To design the curriculum focussing on skill development, Employability and Entrepreneurship

Feedback from Stakeholders:

- The curriculum and syllabus needs continuous revision with the consideration of the current trends of automotive Industry in India and abroad
- More hands-on exposure to be provided to students to link theory with practices on the areas of Design, Optimisation, Electrical, Hybrid and Autonomous Vehicles.
- Focus on Electrical Vehicle Technologies is required rather than IC engine technologies in order to compete and sustain in the job market.

Number of New Courses Introduced: 10 New Courses in PG

% of Syllabus Revision in the Program: PG 40%

Status of Implementation of CBCS: Revised Curriculum and Syllabus is based Choice Based Credit System (CBCS) and following the Curriculum Framework of AICTE guidelines and template.

Considered the Program Curriculum and Syllabus presented before the Board of Studies and discussed in details and resolved as follows:

M.E AUTOMOBILE ENGINEERING

- ❖ The curriculum and syllabus for the M.E Automobile Engineering has been revised completely for both the first year and second classes. The details of the curriculum and syllabus are attached herewith.
- ❖ The subjects titled ***Automotive Chassis and Subsystems, Automotive Engines and Subsystems, Automotive Chassis Components Laboratory*** and ***Automotive Engine Components Laboratory*** courses have been included in the Semester-I as program core courses.
- ❖ The subjects titled ***Electric and Hybrid Vehicles, Automotive Electrical and Electronics, Performance & Emission Testing Laboratory*** and ***Computer Aided Vehicle Design Laboratory*** courses have been included in the Semester-II as program core courses.
- ❖ The subject titled ***Research Methodology and IPR*** has been included as a mandatory course on the research perspective.
- ❖ The subject titled ***Mini Project*** has been included in the Semester-II as program core course.

❖ The subjects titled *Materials in Automotive Technology, Modelling of Vehicle Systems, Finite Element Methods in Automobile Engineering, Theory of Fuels and Lubricants, Electronics in Engine Management System and Quality Control Process and Reliability* courses have been included in the program elective courses.

❖ Total credit is limited to 80.

Resolved to recommend that the Curriculum and Syllabus for the M.E Automobile Engineering designed as per the guidelines and Model Curriculum Framework of AICTE for the Academic year 2021 - 2022 be approved.

Signature of the Members:

1. 

(Dr. L.KARIKALAN)

2. 


(Dr. S.SATHISH)

3. 

(Mr. JEROME PETER MOHANDAS)

4. 

(Dr. M.CHANDRASEKARAN)

5. 

(Dr. S.RAMASUBRAMANIAN)

6. 

(Dr. M.RUBAN)

Annexure (Revision of PG Programmes/courses focussed on employability/ entrepreneurship/skill development and new courses introduced during the Academic year 2021-22)

| Name of the Program | Name of the Course | Year of introduction | Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development |
|--|--|-----------------------------|---|
| M.E Automobile Engineering | Materials in Automobile Technology | 2021-22 | Employability |
| | Modelling of vehicle systems | 2021-22 | Skill development |
| | Finite Element Methods in Automobile Engineering | 2021-22 | Entrepreneurship |
| | Theory of Fuels and Lubricants | 2021-22 | Employability |
| | Electronics in Engine Management System | 2021-22 | Employability |
| | Quality Control Process and Reliability | 2021-22 | Skill development |
| | Research Methodology and IPR | 2021-22 | Entrepreneurship |
| | Automotive Chassis and Transmission | 2018-19 | Employability |
| | Automotive Engine and Accessories | 2018-19 | Employability |
| | Automotive Chassis Components Laboratory | 2021-22 | Employability |
| | Automotive Engine Components Laboratory | 2021-22 | Employability |
| | Automotive Electrical and Electronics | 2018-19 | Entrepreneurship |
| | Electric And Hybrid Vehicles | 2018-19 | Entrepreneurship |
| | Performance & Emission Testing Laboratory | 2021-22 | Employability |
| Computer Aided Vehicle Design Laboratory | 2018-19 | Skill development | |