

KARPAGAM ACADEMY OF HIGHER EDUCATION
COIMBATORE – 641 021

Minutes of the meeting of the Board of Studies in **Automobile Engineering** held on 05/05/2017 at 10.00 am in UE 308 at Karpagam University.

Members Present:

1. Dr. V. M. Murugesan, Professor, Dept of Automobile Engineering, PSG College of Technology
2. Mr. A. V. Gowtham, Team Leader, R&D, Jayam Automotive, Coimbatore
3. Dr. K. K. Padmanabhan, Prof & Head, Dept of Automobile Engineering, Karpagam University
4. Dr. N. M. Sivaram, Associate Professor, Dept of Mechanical Engineering, Karpagam University
5. Dr. Debabrata Barik, Associate Professor, Dept of Mechanical Engineering, Karpagam University
6. Mr. R. Bharat Balaji, Assistant Professor, Dept of Automobile Engineering, Karpagam University
7. Mr. G. Jayabalaji, Assistant Professor, Dept of Automobile Engineering, Karpagam University

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft syllabi and after detailed discussion the following resolutions were passed.

Agenda: 1

To consider and approve the Regulations and Syllabus for B.E Automobile Engg programme.

Resolution: 1

Resolved to approve the Regulations and Syllabus for B.E Automobile Engg programme and it comes into effect from 2017-18.

The Minutes of the Meeting is given below

Minutes of 2017-2018 Curriculum and Syllabus

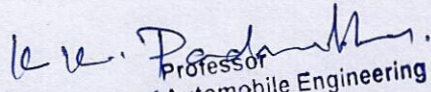
1. Engineering Mechanics Course has been included in the second semester.
2. Strength of Materials Course title has been changed to Mechanics of Solids.
3. Engineering Metrology and Measurement Techniques has been included in the third semester
4. Engineering Materials and Metallurgy has been converted from professional elective to Professional Core
5. Automation and Mechatronics/Intelligent vehicle Technology professional electives have been moved from fourth semester to fifth semester.
6. Automotive Electrical and Electronics Systems has been converted from professional elective to professional core.
7. Vehicle Dynamics has been moved from sixth semester to fifth semester
8. Syllabuses of Manufacturing Technology and Production Process for Automotive Components have been revised.
9. Industrial Engineering and Operations Research has been added in the sixth semester
10. Fuels and Lubricants, Engine and Vehicle Management Systems and Industrial Robotics have been included as Value added courses in fourth, sixth and seventh semester respectively.

11. Automotive Engine Components Laboratory and Engineering Metrology Laboratory have been combined to form Automotive Engine Parts and Measurements Laboratory which has been added in the third semester.
12. Hybrid Vehicle technology has been moved from elective to Professional Core Course and added in the sixth semester.
13. Course Oriented Project with a single credit has been added in third, fourth and fifth semesters.
14. 2 credits has been allotted for Mini Project(VI Semester)
15. 1 credit has been allotted for Project Phase I
16. 8 credits has been allotted for Project Phase II
17. The title Basic Automobile Engineering has been changed as Basics of Automobile Engineering. Brief History of Automobiles topics in Unit 1 have been changed as History of Automobiles. Manufacturers list has been removed and Unit III title Automotive Powertrain has been changed as Automotive Transmission. Unit V can be changed to suspension and braking systems while Unit IV can be given specifically for steering unit.
18. Basic Electrical and Electronics Engineering has been changed as Basics of Electrical and Electronics Engineering. Unit I title has been changed as Electrical Circuits.
19. In Applied Thermodynamics, dryness fraction is removed, gas power cycled from Unit V has been moved to Unit III and Psychrometry can be moved to Unit IV.
20. In Automotive Engines, Petrol and Diesel engines can be replaced with SI and CI engines respectively. Electronics topics can be shifted to Automotive Electrical and Electronics Engineering Course. Mohrs test can be added in Unit V
21. In Engineering Metrology and Measurements, topic headings like related properties can be removed and specific names can be given.
22. Iron-carbide diagram in Engineering Materials and Metallurgy Unit I is corrected to Iron Carbon Diagram. Composite material application related to Automobiles is included.
23. In Fluid Mechanics and heat Transfer machineries Is added to as Unit III, while Convection and radiation is merged together.
24. Automotive Pollution and NVH Control has been renamed as Automotive Emissions and NVH Control.
25. Automotive Electrical and Electronics Course syllabus has been changed to include batteries, Ignition and Starting Systems, Charging Systems, Lighting Systems, Electronics and Accessories as Unit I, II, III, IV, and V respectively.
26. The Course Automation and Mechatronics is renamed as Mechatronics.
27. Design of Crankshaft twisting and balancing weight calculations in IC engine Design is removed since they already study about balancing in Theory of Machines.

The overall percentage in syllabus is 47 %



REGISTRAR
Karpagam Academy of Higher Education
 (Deemed to be University Under Section 3 of UGC Act 1956)
 Pollachi Main Road, Eachanari Post,
 Coimbatore - 641 021.


 Professor
 Department of Automobile Engineering
 Faculty of Engineering
 Karpagam Academy of Higher Education
 Coimbatore - 641 021, Tamil Nadu, India.

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