

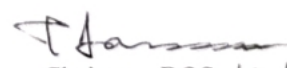
Dr. M.G.R.
Educational and Research Institute
University
(Decl. u/s.3 of UGC Act 1956)
Maduravoyal, Chennai – 95

10.06.2017

DEPARTMENT OF MECHANICAL ENGINEERING

Following members attended the Board of studies meeting on 10.06.17 at 2PM for B.Tech Automobile Engineering.

1. Dr.M.Ganesan HOD – Chairman
2. Dr.N.Ethiraj - Professor – Member
3. Dr.S.Sendilvelan – Addl.Dean – Member
4. Dr.D.B.Jabaraj-Dean(E&S)- Special invitee
5. Dr.Rajan - Professor – Member
6. Dr.K.R.VijayaKumar - Professor – Member
7. Dr.M.Chandran- Professor – Member
8. Mr.Wilson John – Assistant Professor – Member
9. Mr.A.Manojbabu – Assistant Professor – Member
10. Dr.U.Solomon, Scientist G, CVRDE, Industrial Expert – External Member
11. Dr.N.V.Mahalakshmi, Head, Department of Mechanical Engineering
College of Engineering, Anna University, Chennai – Academic Expert -External Member


Chairman-BOS 10.6.17
(Dr.M.Ganesan)



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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 17.04.2018

Board of Studies meeting held on 17.04.2018 at 10.00AM for B.Tech Automobile Engineering.

The following members were present in the board of studies meeting to design the Curriculum and Syllabus of B.Tech Automobile Engineering 2018 regulation.

- 1.Dr.M.Ganesan- Chairman
- 2.Dr.S.Sendilvelan- Professor/Mech
- 3.Dr.N.Ethiraj- Deputy HOD/Mech
- 4.Dr.D.B.Jabaraj- Dean E& S
- 5.Dr.K.Rajan- Professor/Mech
- 6.Dr.K.R.Vijayakumar- Professor/Mech
- 7.Dr.M.Chandran- Asso.Prof/Mech
- 8.Dr.J.Jayaseelan-Asst Professor/ Mech
- 9.Mr. P. Ravichandraganesh- Asso.Prof/ Mech
- 10.Mr.W.Andrew Nallayan- Asso.Prof/Mech
- 11.Mr.G.Raja- Asso.Prof/Mech
- 12.Mr.A.Manoj Babu- Asso.Prof/Mech
- 13.Dr.A.G.Srinivasan- Prof/Mathematics
- 14.Dr. N.V.Mahalakshmi--- Expert member-Professor, Department of Mechanical Engineering, Anna University, Chennai.
- 15.Dr.U.Solomom- Expert member-Scientist E, CVRDE, Avadi.

Dr.M.Ganesan.
Chairman-BOS-Automobile Engineering



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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 23.04.2018

Minutes of the Board of Studies meeting held on 17.04.2018 at 10.00AM

The following members were present in the board of studies meeting to design the Curriculum and Syllabus of B.Tech Automobile Engineering 2018 regulation.

1. Dr.M.Ganesan- Chairman
2. Dr.S.Sendilvelan- Professor/Mech
3. Dr.N.Ethiraj- Deputy HOD/Mech
4. Dr.D.B.Jabaraj- Dean E& S
5. Dr.K.Rajan- Professor/Mech
6. Dr.K.R.Vijayakumar- Professor/Mech
7. Dr.M.Chandran- Asso.Prof/Mech
8. Dr.J.Jayaseelan- Asst Professor/ Mech
9. Mr. P. Ravichandran- Asso.Prof/ Mech
10. Mr.W.Andrew Nallayan- Asso.Prof/Mech
11. Mr.G.Raja- Asso.Prof/Mech
12. Mr.A.Manoj Babu- Asso.Prof/Mech
13. Dr.A.G.Srinivasan- Prof/Mathematics
14. **Dr. N.V.Mahalakshmi--- Expert member-Professor, Department of Mechanical Engineering, Anna University, Chennai.**
15. **Dr.U.Solomon- Expert member-Scientist E, CVRDE, Avadi.**

Dr.M.Ganesan welcomed the Board of studies members and introduced internal members to external expert members Dr.N.V.Mahalakshmi and Dr.U.Solomon. He briefed about the proposed new AICTE Curriculum 2018 with 160 credits.

The board suggested the following changes in the curriculum and syllabus.

1. It was decided to have the following subjects as ETL.
 1. Computer aided automotive component Drawing (IV Sem)
 2. Manufacturing Technology (V Sem)
 3. Qualitative and quantitative skills (VI Sem)
 4. Computer aided Engine component Design. (VI Sem)
 2. Discussed the evaluation method for ETL subjects. (Embedded theory and Lab).
- Dr.M.Ganesan suggested that a committee has to be constituted for each ETL

subject for evaluation purpose. The committee has to evaluate the theoretical and practical knowledge acquired by the students.

3. The committee discussed and decided the various courses to be offered as open Elective and Open Lab.(Details available in the curriculum.)
4. Dr.N.V.Mahalakshmi external member suggested to include the latest Edition of Reference books in Applied Thermodynamics.
5. Dr.N.Ethiraj suggested that Engineering metrology can be removed from the curriculum ,instead Measurement system for Automobile can be included.
6. Special elective has been removed from the curriculum instead one more open elective theory and lab has been included in curriculum. However the subjects offered under special elective have been included in the core elective.

The board unanimously approved all the above mentioned resolutions.

The approved curriculum is enclosed.



Chairman-Board of Studies-Automobile.

(Dr.M.Ganesan)



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Maduravoyal, Chennai - 600 095, Tamilnadu, India
(An ISO 9001:2015 Certified Institution)



Department of Mechanical Engineering

26.04.2019

CIRCULAR

Board of studies meeting will be conducted on 27.04.2019 from 9.30AM at Research seminar hall, VOC 101. All members of the board are requested to attend the meeting.

Agenda:

1. B.Tech Robotics and Automation
2. B.Voc and D.Voc courses.

Members:

- Dr. M. Ganesan - HOD/Mechanical - Chairman
- Dr. S. Nallusamy - Dean/Mechanical & Joint Registrar
- Dr. S. Sendil Velan - Dean (E&T)
- Dr. N. Ethiraj - Deputy HOD/Mechanical
- Dr. K. Rajan - Professor/Mechanical
- Dr. K. R. Vijayakumar - Professor/Mechanical
- Dr. M. Chandran - Associate Professor/Mechanical
- Mr. G. Raja - Associate Professor/Mechanical
- Dr. T. Godhvari - HOD/ECE
- Dr. S. Geetha - HOD/CSE
- Dr. K. Sujatha - Professor/EEE
- Dr. T. Asokan - Professor, Department of Design Engineering, IIT Madras
- Mr. R. Srinath - Manager - Robotics & Automation - UCAL Fuel Systems Ltd Chennai.

[Signature]
HOD Mechanical



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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 12.06.2017

Minutes of the Board of Studies meeting held on 10.06.2017 at 10.30AM

The following members were present in the board of studies meeting to design the Curriculum and Syllabus of B.Tech Mechanical Engineering 2017 regulation.

1. Dr.M.Ganesan- Chairman
2. Dr.D.B.Jabaraj-Special invitee for I year.
3. Dr.S.Sendilvelan- Professor/Mech
4. Dr.N.Ethiraj- Deputy HOD/Mech
5. Prof.S.Suresh- Professor/Mech
6. Dr.K.Rajan- Professor/Mech
7. Dr.K.R.Vijayakumar- Professor/Mech
8. Dr.M.Chandran- Asso.Prof/Mech
9. Mr.S.Sundar- Asso.Prof/Mech
10. Mr.W.Andrew Nallayan- Asso.Prof/Mech
11. Mr.A.Manoj Babu- Asso.Prof/Mech
12. Mr.M.Wilson John- Asso.Prof/Mech
13. Dr. N.V.Mahalakshmi--- Expert member-Professor, Department of Mechanical Engineering, Anna University, Chennai.
14. Dr.U.Solomom- Expert member-Scientist "F", CVRDE, Avadi.

Dr.M.Ganesan welcomed the Board of studies members and introduced them. Dr.D.B.Jabaraj briefed about the I Year new curriculum and the Mechanical related subjects.

The board suggested the following changes in the curriculum and syllabus.

1. In the First year subject, Project lab can be removed from Workshop and included with Entrepreneurship Skill subject.
2. Eight units of Basic Mechanical and Civil Engineering combined into five units.
3. The curriculum of 2017 regulation have been revamped as per the new structure suggested by the university.
 - i. The subject Computer Aided Machine Drawing, Engineering metrology and Manufacturing Technology-II have been changed as ETL subjects
 - ii. In Machine Drawing third and Fourth units are interchanged. Some more assembly drawing like tailstock, cotter joint, knuckle joint, screw jack and universal joint can be added in third unit.

Received
S. Anb.
12/06/2017

- iii. Engineering Mechanics lab has been newly introduced in the curriculum.
- iv. In Thermal Engineering lab-I, the experiment can be given in Computerized Engine Management System (IC Engines).
- v. The Subject Mechanics of Machine-I syllabus can be modified.
- vi. In Gas Dynamics and Jet Propulsion, Cryogenic Rocket Engine can be added in Unit V (Propulsion).
- vii. The subject Thermal Engineering-II, unit V (Lay out of Power Plant can be removed and Low Temperature Applications can be included.
- viii. The subject Mechanics of Machines –II, unit II Balancing of Multicylinder Engine – Firing order can be removed. Equivalent shaft system and Geared system can be included in unit III.
- ix. CAD, CAM and CIM syllabus should be modified.
- x. Heat and Mass Transfer, unit IV Heat Exchanger - derivation of LMTD and NTU-Effectiveness equation- Fouling factor can be removed.
- xi. The elective subject Non Conventional Sources of Energy can be renamed as Renewable Energy .
- xii. Hydraulics pneumatics and Mechatronics have been combined as a single subject and renamed as Industrial Automation.
- xiii. 5 electives have been offered apart from one special elective and open elective.
- xiv. 3 Technical skill and one mini project have been included in the new curriculum.
- xv. It was suggested that the students with good academic record with more than 8.5 CGPA can be permitted to undergo 6 months internship cum project work at a reputed industry or academic institution like IIT,IISc or research labs.They can be exempted from attending classes during 8th semester and can directly appear for the university examination. This was approved by the board.

The approved curriculum and syllabus is enclosed.



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T. J. [Signature] 12/6/17
 Chairman
 Board of Studies-Mechanical



Department of Mechanical Engineering
Minutes of the Board of Studies Meeting

The Board of Studies meeting for B.Tech (Robotics and Automation Engineering) was conducted on 14.06.17(Wednesday) @ 10.30AM, Venue: Sun Java Academy, Anna Block First Floor

The following members were present for the Meeting

S.No	Members (Internal)	Designation
1	Dr.M.Ganesan,	Prof. & Head - Mechanical
2	Dr.S.Sendilvelan	Dean-Academic
3	Dr.S.Nallusamy	Dean-Mechanical
4	Dr.Sumathy Eswaran	Prof. & Head - CSE
5	Dr.Godhavari	Prof. & Head - ECE
6	Dr.N.Ethiraj	Prof. & Addl.Head - Mechanical
7.	Dr.K.R. Vijayakumar	Prof.- Mechanical
8.	Dr.Sujatha	Prof. - EEE
9.	Dr.K.Rajan	Prof.- Mechanical
10.	Mr.G.Raja	Associate Professor
11.	Mr.J.Lokeswaran	Assistant Professor

External Expert

1	Mr.C.Purshothaman	Manager(Applications) - ABB India, Chennai
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MINUTES OF the BOS MEETING HELD ON 14-06-2017(WEDNESDAY),
10.30AM AT SUN JAVA ACADEMY , ANNA BLOCK FIRST FLOOR

- ❖ HOD welcomed all BOS members and introduced the members of BOS then expressed his pleasure in introducing a new interdisciplinary programme “B.Tech-Robotics and Automation Engineering”
- ❖ He explained the members ,the programme being interdisciplinary in nature, the courses from Mechanical Engineering, Electrical Electronics Engineering, Computer science and Engineering and science and Humanities have been included in the curriculum as per the requirement.
- ❖ He requested the members to give suggestions and to discuss on curriculum and syllabus.
- ❖ The following suggestions have been proposed by the Internal and External members:
 - 1.Dr.Sumathy Eswaran, Dr.Godhavari and Dr.Sujatha suggested to reshuffle their respective subjects according to the need and precedence required.
 - 2.Dr.N.Ethiraj, suggested to bring Basics of Robotics to the fifth semester from sixth semester.
 - 3.Mr.Purushothaman, expressed the need of the industries in this field. Based on his experience, he suggested to have the following
“Artificial Intelligence for Robotics” , “Robot Modeling and Simulation “ , “Automaton System Design” , “Industrial Robotics and Material Handling Systems” and “Field and Service Robots” subjects must be in the core but not in the electives.
 - 4.Dr.Sujatha has proposed to add Fuzzy Logic subject in the Electives.
 - 5.Dr.Sumathy Eswaran has suggested to add Internet of Things of Robots in the Electives.
 - 6.Dr.Godhavari asked to include HDL programming along with VLSI Design.
 - 7.Mr.Purushothaman explained that 80% of the Robots used in industries are for welding and material handling and hence it has to be dealt in detail.

 19/6/17
Head/Mechanical Engineering.



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