



# KPR Institute of Engineering and Technology

(Autonomous Institution)



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## DEPARTMENT OF MECHANICAL ENGINEERING

### MINUTES OF MEETING- 2<sup>nd</sup> BOARD OF STUDIES Meeting

Venue: Pallavi Hall

Date: 14/12/2019

Time: 10:00 A.M

Dr. N. Gunasekaran Chairman- BOS welcomed all the Members for the Second Board of Studies Meeting held on 14/12/2019- 10:00 A.M

#### Members Present

S.NO	Name of the Member	Designation
1.	Dr. N. Gunasekaran	Chairman- BOS
2.	Dr. M. Omkumar	University Nominee
3.	Dr.M.Duraiselvam	Subject Expert
4.	Dr.K. Ramesh Kumar	Subject Expert
5.	Dr. A.M. Natarajan	Special Invitee
6.	Dr. M. Akila	Special Invitee
7.	Dr. Usha	Special Invitee
8.	Dr. Eswaramoorthy	Industry Expert
9.	Dr V. Prabu Raja	Special Invitee
10.	Dr. V. S. Saravanan	Special Invitee
11.	Mr. S. Parasu	Special Invitee
12.	Mr. J. Sudhir Ryan Daniel	Special Invitee
13.	Dr A Ramesh	Professor / Member
14.	Dr. S. Ramesh Babu	Professor / Member
15.	Dr. M Shanmugaraja	Professor / Member
16.	Dr. L. Rajesh Kumar	Asst. Professor / Member
17.	Dr. B. Arulmurugan	Asst. Professor / Member
18.	Dr. S. Sathish	Asst. Professor / Member
19.	Mr. D. Balaji	Asst. Professor / Member
20.	Mr. R.Anandkumar	Asst. Professor / Member
21.	Mr. L. Prabhu	Asst. Professor / Member
22.	Mrs. V. Bhuvanewari	Asst. Professor / Member
23.	Mr. P. Manoj Kumar	Asst. Professor / Member
24.	Mr. V. Sathyamoorthy	Asst. Professor / Member
25.	Mr. S. Deepan	Asst. Professor / Member
26.	Mr. P. Sureshkumar	Asst. Professor / Member
27.	Mr. P. Boopalakrishnan	Asst. Professor / Member
28.	Mr. N. Udhayakumar	Asst. Professor / Member
29.	Mr. S. Gokulkumar	Asst. Professor / Member
30.	Mr. T. Kannan	Asst. Professor / Member
31.	Mr. S. N. Dinesh	Asst. Professor / Member
32.	Mr. N. Karthi	Asst. Professor / Member

33.	Mr. S. Vasanthaseelan	Asst. Professor / Member
34.	Mr. P. Nikhil Babu	Asst. Professor / Member
35.	Mr. R. Bharathwaa	Asst. Professor / Member
36.	Mr. E. Joel	Asst. Professor / Member
37.	Mr. M. Makesh Kumar	Asst. Professor / Member
38.	Mr. D. Mohankumar	Asst. Professor / Member
39.	Dr. K. R. Ramkumar,	Alumni
40.	Mr. K.S. Sathish	Alumni
41.	Mr. V. Vignesh – Final Mech	Student Member
42.	Mr. R. Jeffrey Daniel – Final Mech	Student Member
43.	Ms. J. Shilpa Dharshini, -Final Mech	Student member
44.	Ms B.Harini-Third Mech	Student member
45.	Mr. Nithish- Final Mech	Student Member

The following points were discussed during the meeting;

### BE Mechanical Engineering

- Dr. N. Gunasekaran, Chairman BoS, has presented the Agenda of the meeting.
- Dr. V. S. Saravanan, Special Invitee, has suggested industry-oriented courses on Foundry Practices, Internet of things, Embedded Systems, 3D Printing, Energy Management and Energy Audit in Professional Electives for meeting Industry Requirements.
- Dr. M. Duraiselvam, Subject Expert, has appreciated about the Language Electives like Japanese, German and Hindi being included in the curriculum.
- Dr. V. Prabhu Raja, Special Invitee, suggested a session of 3 periods for the course *Machine Drawing* in order to provide practical classes for the students. He also suggested including content on *Design for Retention* in the syllabus of the course *Machine Drawing*.
- Dr. M. Omkumar, University Nominee, has suggested delivering theory and lab classes in drawing hall for the course *Machine Drawing*.
- Mr. Nitish, Student Member, has felt that two periods of lecture and two periods of practical classes for the course *Machine Drawing* as a comfortable combination.
- Mr. J Sudhir Ryan Daniel, Special Invitee, suggested to include content about 3D Modeling in the syllabus of the course *Machine Drawing*
- Dr. K. Ramesh Kumar, Subject Expert, suggested including content about *Blue Printing, Tolerance in Parts Assembly Exercises & Design of Components for Drawing* in the course *Machine Drawing*.
- Dr. M. Omkumar, University Nominee, suggested to combine Unit 4 & 5 as Unit 4 and to include *Special Machining Processes* and *Non-Conventional Machining Processes* as Unit 5 in the course *Machine Shop Technology*.
- Dr. M. Duraiselvam and Dr. K. Ramesh Kumar, Subject Experts have recommended renaming the courses *Manufacturing Technology* as *Manufacturing Processes* and *Machine Shop Technology* as *Manufacturing Technology*.
- Dr. M. Duraiselvam, Subject Expert, recommended including the content on *Laser Welding* in Unit 2 of the course *Manufacturing Technology*.
- Dr. K. Ramesh Kumar, Subject expert, suggested offering the course *Manufacturing Technology* as Blended course. He also insisted to compare the syllabus of Manufacturing Technology and Machine Shop Technology with GATE Syllabus for refining.

- He also recommended including few analytical concepts in these courses in benchmark with similar courses offered in NPTEL.
- Dr. M. Duraiselvam, Subject Expert, suggested to combine the basic terminologies in Unit 1 of the course *Metrology and Measurements* and suggested to include content about *Machine Maintenance* in the course.
- Dr. V. Prabhu Raja, Special invitee, felt to correlate the syllabus content of Unit 3 in the course *Metrology and Measurement* with the title of the unit.
- Dr. V. S. Saravanan, Special Invitee, has suggested including content *about Digital Measurement Techniques* in Unit 3 of the course *Metrology and Measurements*. He also suggested renaming the Unit 3 as *Digital Metrology*.
- He also suggested not to specify the screw thread measurement techniques in Unit 4 of the course *Metrology and Measurements* and to place it before the content of CMM.
- Dr. M. Omkumar suggested including the *Principles of Measurement for Surface Finish* in the course *Metrology and Measurements*.
- Dr. V. S. Saravanan, Special Invitee recommended to include a topic on *Measurement System Analysis, Reproducibility and Bias* in the course *Metrology and Measurements*.
- Dr. K. Ramesh Kumar, Subject Expert, recommended including introduction about *Sensors and Data Acquisition Systems* in the course *Metrology and Measurements*.
- He also recommended a course on *Control Systems* to be included in the curriculum.
- Mr. J. Sudhir Ryan Daniel, Special Invitee, suggested to offer *Industry safety* related Course/Content during the initial semesters itself to the students for culture development
- He also recommended recalling the safety procedures at the start of every lab session.
- Mr L.Prabhu, Asst Professor/Member recommended to include *Basic Instructions on Safety* in every Lab courses.
- Dr. K. Ramesh Kumar, Subject Expert felt not to mention the Bloom's Levels for COs.
- Dr. V. Prabhu Raja, Special Invitee, has suggested rephrasing the CO1 of the course *Fluid Mechanics and Applications*.
- Dr. V. S. Saravanan, Special Invitee, recommended to mention the industry standards ISO: IEC: 17025 in the course *Metrology and Measurements*.
- He also suggested including a course on *Statistical Quality Control in Industrial Engineering Elective Track*.
- Dr. M. Duraiselvam, Subject Expert, suggested changing the order of tracks for professional elective such as *Track 1 as Engineering Design, Track 2 as Materials and Manufacturing* and *Track 3 as Industrial Engineering*.
- Dr. L. Rajesh Kumar, Asst. Professor/Member, felt to offer one MOOC course as Compulsory to all students during their final year of study.
- He also recommended renaming the professional Elective course *Industry 4.0 and Industrial IoT* as *Industry 4.0*. Dr. M. Duraiselvam, Subject Expert also expressed similar views.
- Dr. M. Duraiselvam, Subject Expert, recommended reviewing the courses *Advanced Manufacturing Enterprise* and *Project Management for Technologist* in Industrial Engineering Elective track for its suitability.
- He also recommended including a course on *Supply Chain Management* in Industrial Engineering Elective Track.






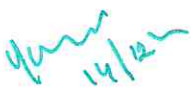

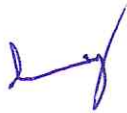

## ME CAD/ CAM Engineering





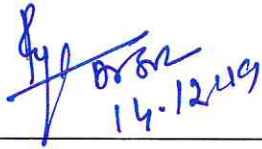






- Dr. V. Prabhu Raja, Special Invitee, suggested renaming the title of the course *Design for Manufacture. Assembly and Environment* as *Design for Sustainability*.
- He also felt that the courses *Computer Aided Engineering* and *Computer Aided Process Planning* are overlapping in Semester 1.
- Dr. M Duraiselvam, Subject Expert, suggested verifying the syllabus for the courses *Product Life cycle Management* and *Integrated Product and Process Development* for Overlapping.
- Dr. S. Sathish, Asst.Professor/Member, felt to include one Design based course in the curriculum as mandate.
- Dr. M. Omkumar, University Nominee, recommended integrating *Computer Aided Manufacturing on Industry 4.0* in the curriculum suitably.
- Dr. M. Duraiselvam, Subject Expert, suggested to explicitly mentioning the list of case studies in Unit 3 of the course *Product Life cycle Management*.
- Dr. K. Ramesh Kumar, Subject Expert and Mr. J. Sudhir Ryan Daniel, Special Invitee, have recommended offering a theory course related to *Geometric Modelling* in Semester 1.
- Mr. J. Sudhir Ryan Daniel, Special Invitee suggested to include the content on *Tools for FEA* for student knowledge purpose.
- Dr. M. Duraiselvam, Subject Expert, suggested including course for *Supply Chain Management* and *Project Management* as Professional Electives.
- Mr. S. Parasu, Special Invitee, suggested including the content on *Computer Aided Manufacturing* in the course *CNC Technology and Programming*. He also suggested to offer relevant laboratory Exercises.
- Dr. M. Omkumar, University Nominee, recommended to list reference books published recently.
- Mr. S. N. Dinesh, Asst. Professor/Member, suggested offering Industrial Engineering related courses like *Six Sigma* in the curriculum.
- Dr. V. Prabhu Raja, Special Invitee, suggested including the content on *Analysis of Computer Aided Manufacturing* (Heat Transfer, Metal Forming, and Welding) instead of simulation in the course *Finite Element Analysis and Simulation* and to rename the course as *Finite Element Analysis*
- Mr. J. Sudhir Ryan Daniel, Special Invitee, recommended including *Dynamic Structural Analysis Exercises* in the course *Simulation Laboratory*.
- Dr. K. Ramesh Kumar, Subject Expert, recommended offering the course *Additive Manufacturing* under Professional Core instead of Professional Elective.








## Others




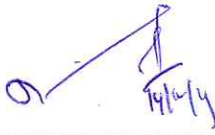




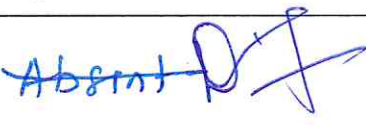

- Dr. M. Duraiselvam, Subject Expert, suggested including a course for *Electric Vehicles* under Liberal Arts Courses.
- Mr. S. Parasu, Special Invitee, recommended to offer *Non-Violence Communication* under Liberal Arts courses
- Dr. M. Duraiselvam, Subject Expert, recommended offering *Law* under Liberal Arts Courses.
- He also suggested renaming the Open Elective course *Industrial Robotics* as *Fundamentals of Industrial Robotics*.

### Signature of the Members

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7.	Dr. Usha	Special Invitee	 14/12/19
8.	Dr. Eswaramoorthy	Industry Expert	Absent
9.	Dr V. Prabu Raja	Special Invitee	
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40.	Mr. K.S. Sathish	Alumini	Absent
41.	Mr. V. Vignesh – Final Mech	Student Member	Absent
42.	Mr. R. Jeffrey Daniel – Final Mech	Student Member	
43.	Ms. J. Shilpa Dharshini, -Final Mech	Student Member	Absent
44.	Ms. B. Harini- Third Mech	Student member	

22.	Mrs. V. Bhuvaneshwari	Asst. Professor / Member	
23.	Mr. P. Manoj Kumar	Asst. Professor / Member	
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27.	Mr. P. Boopalakrishnan	Asst. Professor / Member	
28.	Mr. N. Udhayakumar	Asst. Professor / Member	Absent
29.	Mr. S. Gokulkumar	Asst. Professor / Member	
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32.	Mr. N. Karthi	Asst. Professor / Member	





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