



KPR Institute of Engineering and Technology

(Autonomous Institution)



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DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF MEETING- 1st BOARD OF STUDIES Meeting

Venue: Pallavi Hall

Date: 27/08/2019

Time: 10:00 A.M

Dr. N. Gunasekaran Chairman- BOS welcomed all the Members for the First Board of Studies Meeting held on 27/08/2019- 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. K. Bommanna Raja	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. P. Mahendran	Special Invitee
12.	Mr. S. Parasu	Special Invitee
13.	Mr. Pappannan	Special Invitee
14.	Dr. S. Ramesh Babu	Professor / Member
15.	Dr. M Shanmugaraja	Professor / Member
16.	Dr. G. Muralimohan	Asst. Professor / Member
17.	Mr. D. Balaji	Asst. Professor / Member
18.	Mr. L. Rajesh Kumar	Asst. Professor / Member
19.	Mr. R.Anandkumar	Asst. Professor / Member
20.	Mr. L. Prabhu	Asst. Professor / Member
21.	Mrs. V. Bhuvaneshwari	Asst. Professor / Member
22.	Mr. B. Arulmurugan	Asst. Professor / Member
23.	Mr. A. Deivaganesh	Asst. Professor / Member
24.	Mr. P. Manoj Kumar	Asst. Professor / Member
25.	Mr. V. Sathyamoorthy	Asst. Professor / Member
26.	Mr. S. Deepan	Asst. Professor / Member
27.	Mr. P. Sureshkumar	Asst. Professor / Member
28.	Mr. S. Sathish	Asst. Professor / Member
29.	Mr. P. Boopalakrishnan	Asst. Professor / Member
30.	Mr. R. Vivekanandan	Asst. Professor / Member
31.	Mr. N. Udhayakumar	Asst. Professor / Member
32.	Mr. K. Sreeram	Asst. Professor / Member

33.	Mr. S. Gokulkumar	Asst. Professor / Member
34.	Mr. T. Kannan	Asst. Professor / Member
35.	Mr. S. N. Dinesh	Asst. Professor / Member
36.	Mr. N. Karthi	Asst. Professor / Member
37.	Mr. R. Rajmohan	Asst. Professor / Member
38.	Mr. S. Vasanthaseelan	Asst. Professor / Member
39.	Mr. P. Nikhil Babu	Asst. Professor / Member
40.	Mr. R. Bharathwaaj	Asst. Professor / Member
41.	Mr. E. Joel	Asst. Professor / Member
42.	Mr. K.S. Sathish	Alumini
43.	Mr. V. Vignesh – Final Mech	Student Member
44.	Mr. R. Jeffrey Daniel – Final Mech	Student Member
45.	Ms. J. Shilpa Dharshini, -Final Mech	Student member
46.	Ms B.Harini-Third Mech	Student member

The following points were discussed during the meeting;

BE Mechanical Engineering

- Dr. N. Gunasekaran, Chairman BoS has presented the curriculum and detailed syllabus for course proposed under Regulation 2019 for B.. E Mechanical Engineering to the members.
- Dr K. Bommannaraja – Special Invitee has explained the concept of offering the course **“Language Elective”**.
- Dr K. Ramesh Kumar- Subject Expert has commented that the contact hours need not be presented in the curriculum and Dr A. M. Natarajan has agreed.
- They also suggested to introduce Additive Manufacturing and Automation related practices in the course **“Workshop”** during Semester I.
- Dr Eswaramoorthy and Mr. S. Parasu- industry Experts felt to incorporate demonstrative level practices on Automation and Additive Manufacturing in the Course **“Workshop”** for Student’s easy understanding.
- Dr Eswaramoorthy- Industry Expert and Dr. N. Omkumar – University Nominee recommended to introduce **“R” Programming** along with the course **“Problem Solving using Python Programing”**.
- Dr V. Prabhu Raja- Special Invitee has expressed the level of difficulty to practice manual and computer-based practices in the course **“Engineering Graphics”**. Dr. N. Gunasekaran-Chairman -BOS has explained the proposed teaching and learning methodology to be used in the course **“Engineering Graphics”** to make it comfortable for the students to learn.
- Dr V.S. Saravanan- Industry Expert suggested to check the viability for introducing 3D modeling course in the First year of study.
- Dr. A.M Natarajan- Special Invitee suggested to offer Professional Electives from Semester IV onwards since open electives could be offered later.
- Dr K. Ramesh Kumar- Subject Expert suggested to shift the course **“Mechanics of Materials”** from Semester III to Semester IV and recommended to introduce a course **“Materials Science and Engineering”** instead of the course **“Fundamentals of Metallurgy”** in semester III.
- Dr M. Duraiselvam-Subject Expert proposed the courses on **“Industry 4.0”**, **“Internet of Things for Mechanical Applications”** and **“Non- Traditional Machining Processes”** to

include in the curriculum as professional core courses for student employability.

- Dr AM. Natarajan – Special Invitee and Dr V. Prabhu Raja- Special Invitee have recommended to change the course “*Automobile Engineering*” from Professional core to Professional Elective.
- Dr. V.S. Saravanan - Industry Expert suggested the Industry oriented courses like “*Foundry Practices*”, to be included in the curriculum.
- Dr V. Prabhu Raja- Special Invitee recommended to include the course “*Machine drawing*” in Professional core as theory with practical component.
- Dr V. Prabhu Raja- Special Invitee suggested to rename the laboratory courses explicitly. For example, FEA Laboratory. Dr. Eshwaramoorthy and Mr . S. Parasu- Industry Experts endorsed it.
- Dr K. Ramesh Kumar- Subject Expert suggested the course “*Operations Research*” to offer under Humanities and Science Category (HSM).
- Dr V. Prabhu Raja- Special Invitee suggested to offer the course “*Theory of Machines*” as “*Kinematics of Machinery*” and “*Dynamics of Machines*” separately if possible.
- C suggested to introduce “*Innovation practices Laboratory*” instead of “*Design and Project Fabrication*” during semester VI.
- Mr. P. Suresh Kumar- Asst. Professor/Member recommended to incorporate IoT for mechanical applications in the course “*Fundamentals of Automation*” along with laboratory practices. He opinioned to have hands on sessions. Dr V. Prabhu Raja- Special Invitee endorsed it.
- Dr. V.S. Saravanan – Industry Expert proposed to incorporate the courses “*Environmental Science and Management*” and “*Pollution Control Equipment*” in the curriculum suitably.
- Dr Durai Selvam - Subject Expert suggested that there shall be only optimum number of electives. All other subject experts recommended to offer minimum of 10 Elective courses as choice for a Professional Elective course instead of offering choices in track wise. Advised to remove too many electives and wherever it is redundant.
- All subject experts have felt that it is not advisable to teach the contents of Finite Element Analysis during first year of study to EEE students in the course “*Basics of Mechanical Engineering (EEE)*” and suggested to offer a complete course on FEA under Open Elective to them in the higher semester if required. Dr Durai Selvam - Subject Expert expressed that let it experimented and all have agreed.
- Dr K. Ramesh Kumar- Subject Expert proposed to include contents on numerical methods in the course “*Probability and Statistics*”.
- Dr. V. Prabhu Raja suggested to rename the one credit course “*CNC training*” as “*CNC Part Programming*”.
- Dr S. Ramesh Babu – Professor/Member expressed to include a course content on “*Design Thinking*” in the curriculum suitably.



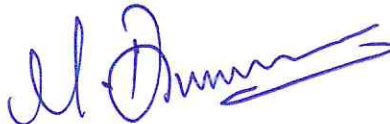


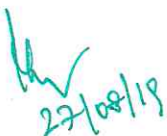
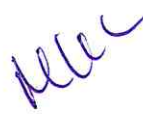
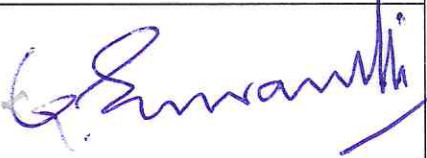


ME CAD/ CAM Engineering


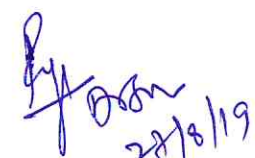


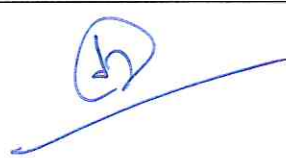

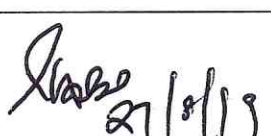

- Dr. V. Prabhu Raja recommended to rename the laboratory courses explicitly.
- Dr M. Duraiselvam-Subject Expert proposed to rename the course “*Automated and Computer Integrated Manufacturing systems*” as “*Computer Integrated Manufacturing*”.
- Mr. B. Arulmurugan, Asst. Professor/Member recommended to include a topic on cutting tool selection in the course “*CNC Technology and Programming*”.
- Dr K. Ramesh Kumar- Subject Expert and Dr. V. Prabhu Raja – Special Invitee have suggested to include a core course “*Geometric modelling*” or “*Computer Aided Design*” in semester I.
- Dr K. Ramesh Kumar- Subject Expert suggested to incorporate courses like “*Computer Aided Engineering*”, “*Group Technology*” and “*Computer Aided Process Planning*” in the curriculum for better integration of CAD and CAM.
- Dr M. Duraiselvam-Subject Expert proposed to include a course on “*Product Life Cycle Management*” as core Course in the curriculum.
- Dr K. Ramesh Kumar- Subject Expert suggested to include laboratory practices on Product simulation, Process simulation, Manufacturing simulation and discrete system simulation in the course “*Simulation Laboratory*”






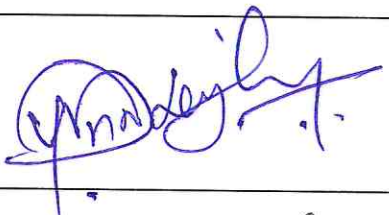

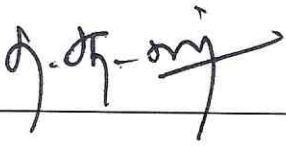

Others





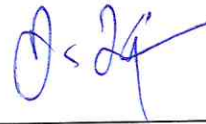




- Dr Eswaramoorthy- Industry Expert expressed the importance of German language for design engineers.
- Dr K. Ramesh Kumar – Subject Expert suggested to conduct an orientation program for selection of language elective.
- Subject Experts recommended not to restrict selection of elective courses in track wise.
- Dr. V. Prabhu Raja – Special Invitee expressed that as per latest NBA guidelines, the course objectives need not to be mentioned in the syllabus
- Dr M. Duraiselvam-Subject Expert has recommended to have the syllabus content in 3 to 4 lines per unit and to be specific.
- All the subject experts suggested to brainstorm with other departments to design the open elective courses.
- Dr Ramesh Kumar - Subject Expert suggested to have 4 to 5 weeks of internship for the students with 2 credits which will enable them to carry out an industry project during the internship period.
- Ms J. Shilpa Dharshini- Student Member mentioned that there may be additional time provided for fabrication of projects.
- Mr R. Jeffrey Daniel- Student Member mentioned that students may be permitted to have the choice of elective as per their liking irrespective of track.

Signature of the Members

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8.	Dr. Eswaramoorthy	Industry Expert	
9.	Dr V. Prabu Raja	Special Invitee	
10.	Dr. V. S. Saravanan	Special Invitee	

11.	Mr. P. Mahendran LRT	Special Invitee	Mr. P. Mahendran
12.	Mr. S. Parasu	Special Invitee	
13.	Mr. Pappannan	Special Invitee	Absent
14.	Dr. S. Ramesh Babu	Professor / Member	 27/8/2019
15.	Dr. M Shanmugaraja	Professor / Member	 28/8/19
16.	Dr. G. Muralimohan	Asst. Professor / Member	
17.	Mr. D. Balaji	Asst. Professor / Member	
18.	Mr. L. Rajesh Kumar	Asst. Professor / Member	
19.	Mr. R. Anandkumar	Asst. Professor / Member	 27/8
20.	Mr. L. Prabhu	Asst. Professor / Member	 27/8/19
21.	Mrs. V. Bhuvaneswari	Asst. Professor / Member	 27/8/19

22.	Mr. B. Arulmurugan	Asst. Professor / Member	Absent
23.	Mr. A. Deivaganesh	Asst. Professor / Member	Absent
24.	Mr. P. Manoj Kumar	Asst. Professor / Member	
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42.	Mr. K.S. Sathish	Alumini	Absent
43.	Mr. V. Vignesh – Final Mech	Student Member	

44.	Mr. R. Jeffrey Daniel – Final Mech	Student Member	<i>Jeffrey Daniel</i>
45.	Ms. J. Shilpa Dharshini, -Final Mech	Student Member	<i>J. Shilpa Dharshini</i>
46.	Ms. B. Harini- Third Mech	Student member	<i>B. Harini</i>

