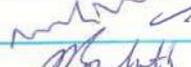
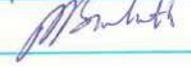
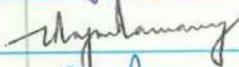
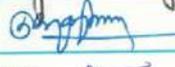
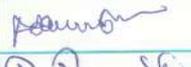
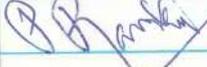
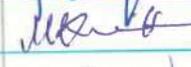


MINUTES OF THE 35<sup>th</sup> MEETING OF THE  
BOARD OF STUDIES IN MECHANICAL ENGINEERING

15-12-2018

The minutes of the meeting of the Board of Studies in Mechanical Engineering held on 15.12.2018 at 10.30 AM in Main Building A/C Conference Hall.

The following members were present in the meeting.

S.NO	NAME	DESIGNATION	SIGNATURE	
1.	Dr. K. Marimuthu	Chairman		22 Mr. K.
2	Dr. V. Selladurai	Member	Pre-Occupied	23 Dr. S.
3	Dr. R. Saravanan	University Nominee (UG&PG)	R. Saravanan	24 Dr. C.
4	Prof. T. Sundara Rajan	Expert Member - Academic	Pre-Occupied	25 Dr. G.
5	Dr. V. Prabhuraja	Expert Member - Academic	Pre-Occupied	26 Mr. P.
6	Er. B. Jayakumar	Expert Member - Industry	Pre-Occupied	27 Mr. S.
7	Mr. M. Nachimuthu	Expert Member - Industry		28 Mr. D.
+ 8	Er. M. Sankar Ananth	Expert Member - Industry		29 Mr. P.
+ 9	Prof. Dinesh Shringi	Expert Member - Academic	Pre-Occupied	30 Mr. R.
+ 10	Prof. Manish Kumar	Expert Member - Academic	Pre-Occupied	31 Mr. G.
11	Dr. T. Sridhar	Member	T. Sridhar	32 Mr. F.
12	Dr. R. Rajesh	Member		33 Mr. I.
+ 13	Dr. V. Senthil	Member	V. Senthil	34 Mr. C.
14	Dr. N. Rajam Ramaswamy	Member		35 Ms.
15	Dr. G. Suresh Kannan	Member		36 Mr. H. S.
16	Dr. A. S. Krishnan	Member		37 Mr. J.
17	Mr. P. Ramakrishnan	Member		38 Mr. K.
18	Dr. M. Velliangiri	Member	Pre-occupied	39 Mr. Ton.
19	Ms. G. Suganya Priya Darshini	Member	G. Suganya Priya Darshini	40 Mr. L.
20	Mr. M. Karthikeyan	Member		41 Dr. M.
21	Mr. C. Balaji Ayyanar	Member		42 Mr. N.
				43 Mr. O.
				1 Dr. K. M.
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THE	22	Mr. K. Karthik	Member	
ENGINEERING	23	Dr. S. Balamurugan	Member	
-12-2018	24	Dr. C. Vivek	Member	
Board of Studies	25	Dr. G. Sivakumar	Member	
2.2018 at	26	Mr. P. Mohan	Member	
Ice Hall.	27	Mr. S. Selvam	Member	
sent in the	28	Mr. D. P. Sam Solomon	Member	
	29	Mr. P. Manivel	Member	
	30	Mr. R. Vishnu	Member	Pre-occupied
	31	Mr. G. Balamurugan	Member	
SIGNATURE	32	Mr. R. S. Mohan Kumar	Member	Rs. Mahakumar
	33	Mr. M. Muruganandam	Member	
Pre-occupied	34	Mr. C. Manivannan	Member	
	35	Ms. P. Aruna Devi	Member	P. Aruna Devi
Pre-occupied	36	Mr. H. SivaRathina Moorthy	Member	
Pre-occupied	37	Mr. S. Vellingiri	Member	
Pre-occupied	38	Mr. S. Thiru Murugan	Member	Pre-occupied
	39	Mr. Tony Punnose Valayil	Member	
	40	Mr. S. K. Pradeep Mohan	Member	
Pre-occupied	41	Dr. R. Satis Kumar	Member	
Pre-occupied	42	Mr. S. Praveen Kumar	Member	S. Praveen Kumar
	43	Mr. G. Ramkumar	Co-opted Member	

1. Dr. K. Marimuthu, Professor and Head of the Department of Mechanical Engineering welcomed the gathering and gave an outline on the agenda of meeting. He also introduced Dr. R. Saravanan, Professor in Mechanical Engineering from College of Engineering, Anna University, Mr. M. Nachimuthu, retired Chief Executive officer from L&T, Mumbai and an alumni of CIT from 1981 batch and Mr. M. Sankar Ananth, Deputy General Manager, Ashok Leyland and an alumni of

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CIT from 1993 batch.

2. Dr. A.S. Krishnam, Associate Professor from the Department of Mechanical Engineering presented the curriculum for the under-graduate Mechanical Engineering programme. He pointed out that the minimum number of credits has been reduced to 160 by the AICTE and added that the Honors and Minor degree prescribed by AICTE awaits approval from Anna University.
3. Dr. R. Saravanan enquired as why there are only four subjects and three labs in the first semester. He also enquired as why two theory and three practical hours add up to three credits in Engineering Graphics. Dr. G. Sureshkannan replied that AICTE has prescribed such a pattern for Engineering Graphics alone and the first year work load is supposed to be less as prescribed by AICTE.
4. Mr. M. Nachimuthu enquired as why no preference is given to Mechanical Engineering subjects in the second semester. Dr. A.S. Krishnam clarified that the Physics course has actually been designed exclusively for Mechanical Engineering students which is more of an introductory course to Mechanics.
5. Dr. R. Saravanan suggested shifting "Materials Engineering" and "Engineering Mechanics" to the second semester and pointed out that the third semester is so heavy with quantitative subjects. He also added that "Instrumentation and Control System" can be shifted to sixth or seventh semester with three credits.
6. Dr. K. Marimuthu suggested renaming the course "Heat Transfer" as "Heat and Mass Transfer".
7. Mr. M. Nachimuthu suggested shifting "Manufacturing

- Processes
8. Dr. R. Saravanan suggested "Hydraulic Space" and suggested the curriculum for a course in the first semester. Dr. R. Saravanan suggested "Environmental Engineering" in the first semester. Dr. R. Saravanan suggested "Indian History" in the first semester. Dr. R. Saravanan suggested "UPSC" in the first semester.
  9. Mr. M. Nachimuthu suggested "Science" in the first semester. Dr. R. Saravanan suggested "Environmental Engineering" in the first semester. Dr. R. Saravanan suggested "Mechanics" in the first semester. Dr. R. Saravanan suggested "Mand" in the first semester.
  10. Mr. M. Nachimuthu suggested "Indian History" in the first semester. Dr. R. Saravanan suggested "UPSC" in the first semester.
  11. Dr. A.S. Krishnam suggested "Level 2" in the first semester. Dr. R. Saravanan suggested "with" in the first semester.
  12. Dr. R. Saravanan suggested "Intelli" in the first semester. Dr. R. Saravanan suggested "Electron" in the first semester.
  13. Mr. M. Nachimuthu suggested "the In" in the first semester. Dr. R. Saravanan suggested "the nu" in the first semester.
  14. Dr. R. Saravanan suggested "Dr. A.S. Krishnam" in the first semester. Dr. R. Saravanan suggested "eight" in the first semester. Dr. R. Saravanan suggested "Assign" in the first semester.

Processes" course to early semesters.

8. Dr. R. Saravanan suggested that "Gas Dynamics and Space Propulsion" can be given as an elective and instead "Hydraulics" can be added as a core subject. He also suggested shifting "Engineering Economics" to sixth or seventh semester.
9. Mr. M. Nachimuthu enquired as why "Environmental Science" is a subject with no credit. He added that in the current scenario where environmental pollution is a concern, it could have been a subject with credits. Dr. R. Saravanan suggested framing a course "Environmental Engineering and Pollution Control" from an industrial perspective specifically designed for Mechanical Engineering students and making it mandatory with credits.
10. Mr. M. Nachimuthu pointed out that the mandatory course on "Indian Constitution" would help students who prepare for UPSC exams.
11. Dr. A.S. Krishnan pointed out that "Entrepreneurship Level 1" course has been made mandatory where as "Entrepreneurship Level 2" course has been kept optional.
12. Dr. R. Saravanan suggested replacing "Operations Research" with "Systems Engineering" which is actually the same subject.
13. Mr. M. Nachimuthu insisted that the courses "Artificial Intelligence and Machine Learning" and "Automotive Electronics" can have four credits as they are very important.
14. Dr. R. Saravanan insisted on going upto  $\pm$  170 credits as the Institution is Autonomous. He also enquired as why the number of credits have been kept at six for "Project". Dr. A.S. Krishnan clarified that AICTE proscribes eight credits for Project of which two credits have been assigned for MiniProject and the remaining six credits

- for the main Project.
15. Mr. M. Nachimuthu observed that the total number of credits in the final year is very low and asked why it is so. Dr. A.S. Krishnan responded saying that the objective is to give space for students to carry out project and equip themselves for placements.
  16. Dr. R. Saravanan suggested having a core course on "Thermal Engineering" apart from "Engineering Thermodynamics" and "Applied Thermodynamics". He added that topics like boilers, nozzles can be added in the course and also mentioned that "Refrigeration and Air conditioning" and "IC Engines" which can be studied as electives can also be added as units in Thermal Engineering.
  17. Dr. T. Sridhar felt that the descriptive part of boilers and other components may be skipped and the analytical part be given importance.
  18. Dr. R. Saravanan also recommended to add a separate elective on "Energy Conversion Techniques" and "Automobile Engineering". He also suggested that a group of subjects can be put together on the basis of Thermal/Design/Manufacturing stream so that students can stick onto a stream and specialize in it.
  19. Dr. N. Rajam Ramaswamy enquired as why "Biology for Engineers" which is supposed to be a mandatory course is not seen in the curriculum. Dr. K. Marimuthu replied that the same will be discussed with the concerned authorities.
  20. Dr. K. Marimuthu pointed out that the unit titles for units one and two in Maths-I were same and instructed the coordinators to change any one of the titles. He also directed them to specify the complete details of text and reference books.

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- ogy for Engineers" not seen in the same cities. titles for and instructed titles. He details of
21. Dr. R. Saravaman suggested adding Python Programming under the programming course. He also added that care has to be taken to avoid repetition of experiments which has already been done in the school level in Physics/Chemistry lab.
  22. Dr. S. Balamurugan, Assistant Professor in the Department of Mechanical Engineering presented the curriculum for M.E., Heat Power Engineering programme.
  23. Dr. R. Saravaman suggested making Mathematics course compulsory instead of keeping it as elective. He also insisted on replacing "Thermodynamics Lab" with "Thermal Engineering Lab".
  24. Dr. R. Saravaman suggested shifting "Thermal Measurements and Process Control" to the second semester as a core subject and instead "Design of Heat Exchangers" can be given as an elective.
  25. Dr. A. S. Krishnan introduced a new elective "Numerical Methods in Heat Transfer and Fluid Flow" under 2015 Regulations in M.E., Heat Power Engineering and the same was approved by the board.
  26. Dr. C. Vivek, Assistant Professor in the Department of Mechanical Engineering presented the curriculum for M.E., Advanced Manufacturing Technology.
  27. Mr. M. Nachimuthu insisted that the Institution has to work closely with industries involving more and more industrial experts in framing the syllabus. He also felt that the emerging graduates from various engineering institutions are not strong in fundamentals. He added that the department should strive to make the graduates employable.
  28. Mr. M. Sankar Ananth observed that the current syllabus focuses on industrial requirements which he found to

be a positive sign.

29. Dr. R. Saravanan insisted on in-depth teaching covering the practical aspects without compromising the fundamentals.

30. Dr. G. Sureshkannan proposed the Vote of Thanks and conveyed his thanks to Dr. R. Saravanan, Mr. M. Nachimuthu and Mr. M. Sankar Ananth for offering their valuable suggestions. He also added that their suggestions will be incorporated depending on the feasibility and requirements.



Dr. K. MARIMUTHU

CHAIRMAN - BOARD OF STUDIES

Dr. K. MARIMUTHU, Ph.D.,  
PROFESSOR AND HEAD OF MECHANICAL ENGINEERING  
COIMBATORE INSTITUTE OF TECHNOLOGY  
COIMBATORE - 641 014, INDIA

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10.30AM

meeting

SNO	NAME
1	Dr. K.
2	Dr. V.
3	Dr. R.
4	Prof. T.
5	Dr. V. P.
6	Er. B.
7	Mr. M. I.
8	Mr. A. S.
9	Dr. P. K.
10	Dr. T.
11	Dr. R.
12	Dr. N. Ra
13	Dr. G. S.
14	Dr. A. S.
15	Mr. P. E.
16	Dr. M. V.
17	Dr. G. Su
18	Mr. M.
19	Mr. C. E.
20	Mr. K.
21	Dr. S. I.