

DEPARTMENT OF MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING, BARGUR-635104
(An Autonomous Institution Affiliated to Anna University, Chennai)

Minutes of sixth Board of Studies meeting of Mechanical Engineering held on 16th February 2020 at Government College of Engineering, Bargur.

The following agendas were taken for discussion in this meeting.

Item No.	Particulars
Item 1	Inclusion of additional Open Elective Courses and finalizing their syllabus
Item 1	Relook at syllabus of all existing courses in 2018 regulation for updating, if any
Item 1	Revising physics syllabus
Item 1	Reviewing the syllabus subcommittee minutes
Item 1	Any other matter

The following members were present during the meeting.

INTERNAL MEMBERS

S.NO.	NAME AND DESIGNATION	Description
1.	Dr. M. Nataraj, Principal in Charge & Professor of Mechanical Engineering.	Chairman
2.	Dr. P. Thirumal, Associate Professor (CAS) of Mechanical Engineering.	Faculty Member
3.	Thiru. M. Anbarasu, Assistant Professor of Mechanical Engineering.	Faculty Member
4.	Thiru. S. Tamil Prabakaran, Assistant Professor of Mechanical Engineering.	Faculty Member
5.	Thiru. M. Anantha Babu, Assistant Professor of Mechanical Engineering.	Faculty Member
6.	Thiru. S. Sathishkumar, Assistant Professor of Mechanical Engineering.	Faculty Member
7.	Thiru. E. Elango, Associate Professor (CAS) of Mechanical Engineering.	Faculty Member
8.	Dr. A. Kajavali, Associate Professor (CAS) of Mechanical Engineering.	Faculty Member
9.	Dr. I. Ashok Kumar, Assistant Professor of Mechanical Engineering.	Faculty Member
10.	Dr. D. Thirumalaikumarsamy, Assistant Professor of Mechanical Engineering.	Faculty Member
11.	Dr. J. Saravanan, Associate Professor (CAS) of Civil Engineering.	Faculty Member
12.	Selvan. M. Akash, Final Year	Student member
13.	Selvi. G. Deepa, Final Year	Student member

14	Selvan. S. Prithivraj , Third Year	Student member
15	Selvan. K. Sakthivel , Third Year	Student member
16	Selvan. P. Vijaykumar , Second Year	Student member
17	Selvan. M. Puthiyaraj , Second Year	Student member

EXTERNAL MEMBERS

S.No.	NAME	DESIGNATION
1.	Dr. V. Kumaresan,	UNIVERSITY NOMINEE Associate Professor, Department of Mechanical Engineering, College of Engineering Gundy, Anna University.
2.	Dr. S. Muthukumaran,	SUBJECT EXPERTS Professor, Department of Metallurgical and Materials Engineering, National Institute of Technology, Tiruchirappalli.
3.	Dr. R. Elansezhian,	SUBJECT EXPERTS Associate Professor, Department of Mechanical Engineering, Pondicherry Engineering College, Puducherry.
4.	Mr. R. Ram Kumar,	REPRESENTATIVE FROM INDUSTRY Assistant Manager, Case PED, Watches and Accessories Division, Titan Company Limited, Hosur.
5.	Mr. K. Ramesh,	ALUMNUS Senior Associate Consultant, Publicis Sapient- Bangalore.

Dr.M.Nataraj, Chairman-BOS welcomed the members and gave brief overview on agenda to be discussed in sixth BOS meeting.

- 1) Dr.M.Nataraj, Chairman – BOS listed out the open elective courses which are to be added in the existing list
 - a. Industrial Safety Engineering
 - b. Basic Welding Technology
 - c. Renewable Energy Sources
 - d. Heating, Ventilation and Air Conditioning
 - e. Introduction to Rapid Prototyping and Tooling

- 2) Dr.M.Nataraj, Chairman – BOS presented objectives, syllabus and outcomes of the Industrial Safety Engineering course and asked members to give suggestions. No changes were recommended and all the members shown consent for the course Industrial Safety Engineering.
- 3) Dr.M.Nataraj, Chairman BOS presented objectives, syllabus and outcomes of the Basic Welding Technology course and asked members to give suggestions. Dr.S.Muthukumaran, Subject Expert suggested to change the course title as welding Technology from Basic Welding Technology also mentioned that content presented may not be sufficient for 45 period of contact hours. So, he suggested to add relevant additional topics.
- 4) Dr.M.Nataraj, Chairman BOS presented objectives, syllabus and outcomes of the Renewable Energy Sources course and asked members to give suggestions. Dr.V.Kumaresan, University Nominee, Suggested to add latest text books also suggested to remove content “the sun”, “availability and limitations of solar energy” from unit I and change the word “production” as “conversion” and suggested to add topic Solar PV and thermal systems (Quantitative analysis), change measuring techniques to measurement of solar radiation, Change the title of unit-5 as “Energy storage technology” from “Energy storage methods”.
- 5) Dr.M.Nataraj, Chairman BOS presented objectives, syllabus and outcomes of the Heating, Ventilation And Air Conditioning course and asked members to give suggestions. Dr.V.Kumaresan, University Nominee suggested to replace unit IV heating systems by refrigerants and impact of refrigerants on environment.
- 6) Dr.M.Nataraj, Chairman BOS presented objectives, syllabus and outcomes of the Introduction to Rapid Prototyping course and asked members to give suggestions. Dr.R.Elansezhian, Subject expert suggested to remove “introduction” from the title of the course and also suggested to add topics like, solid based RP processes, Industry 4.0, part manufacturing and additive manufacturing.
- 7) Dr.M.Nataraj, Chairman BOS requested members to relook at syllabus of all existing courses in 2018 regulation for updating, if any.
- 8) Dr.V.Kumaresan, University Nominee Suggested to increase lecture hours to 2 and reduce practice hours to 3 in Second semester Workshop course.

9) Dr.M.Nataraj, Chairman BOS suggested splitting and grouping the Professional Electives on the basis of Domain specializations like 1. Thermal Courses, 2. Design Courses, 3. Manufacturing Courses, 4. General Courses, to increase the clarity among students during selection of electives. The committee shown consent for the same.

10) Dr.P.Thirumal, Associate Professor, presented the syllabus of Engineering Physics I (common to all department) and Applied Physics (only for Mechanical Engineering) which are approved by First Year Board of Studies meeting. All the members shown their consent.

11) Dr.P.Thirumal, Associate Professor presented BOS subcommittee meeting minutes as follows, In the Academic year 2020-21, 24 lateral entry students and 2 transfer students are admitted in the second year, one student is readmitted in the third year.

11.1 Lateral entry students admitted in the Academic year 2020-2021 have to register and complete the following two courses as the additional courses, as there were no courses relevant to computer Programing in the Diploma curriculum.

- Programing in Python (18MES203)
- Programing in Python Laboratory (18MES207)

11.2 Lateral and Transfer students joined in the Academic year 2020-2021 have to register and complete the Mandatory course Constitution of India (18ZMC205) as the additional course.

11.3 Transfer students are already studied Engineering Mechanics course in their second semester as per Anna University Regulation 2017. So it is recommended that the transfer students may not be needed to register and complete the Engineering Mechanics (18MES301) course in third semester. All other courses of third semester need to be registered and to be completed.

11.4 Mr. M. Asif Uduman, is readmitted in 5th semester under Regulation R2018, the curriculum of R2017 and R2018 are compared and found that there are mismatches of courses. The following courses are recommended to be added/removed as mentioned below

- Constitution of India(18ZMC205), Human Values and Professional Ethics (18MHS402) shall be added in 6th semester along with all 6th semester regular courses of R2018
- All the courses of semester 5 shall be studied except Manufacturing Technology II (18MPC503) since the student

already completed the course of fifth semester of Regulation 2018



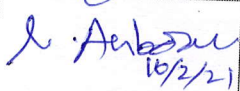
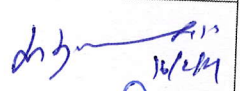
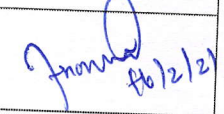
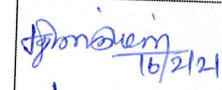
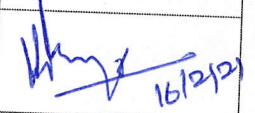
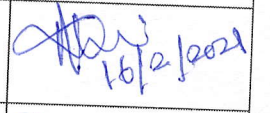
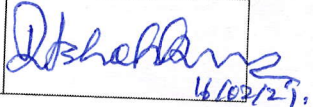
- From sixth semester onwards all the courses to be studied without any course exception.
- The student has studied Programming in C (17ZES105) and Programming in C Laboratory (17ZES107) during first semester of R2017 which is equivalent to Programming in Python (18MES203) and Programming in Python Laboratory (18MES207).
- The student has studied Communicative English I (17ZHS101) and Communicative English II (17ZHS201) during first and second semester respectively which is equivalent to Technical English (18ZHS204) and Communication English Laboratory (18ZHS209) of second semester courses of R2018.

All committee members shown consent for the above and ratification was given. The same will be taken for Academic council meeting for approval.

- 12) Mr. M. Anantha Babu said that there is proper and detailed guidelines are given by AICTE and NPTEL for credit transfer of SWAYAM-NPTEL courses or any other MOOC courses, and the same may be taken for our institute. All members shown consent for the same, it will be taken for Academic council meeting for approval.
- 13) Dr. V. Kumaresan, University Nominee, asked students feedback on updated curriculum, Mr. M. Akash, final year mechanical student member said that the proposed syllabus of Applied Physics may provided the prerequisite for course Materials and Metallurgical Engineering.
- 14) Mr. R. Ram Kumar, Representative from Industry, asked students feedback on placement activity, Miss. G. Deepa, final year mechanical student member responded that "Employability skill training programme" was arranged during third year, funded by TEQIP-III and students are attending off-campus interviews through online and offline mode.

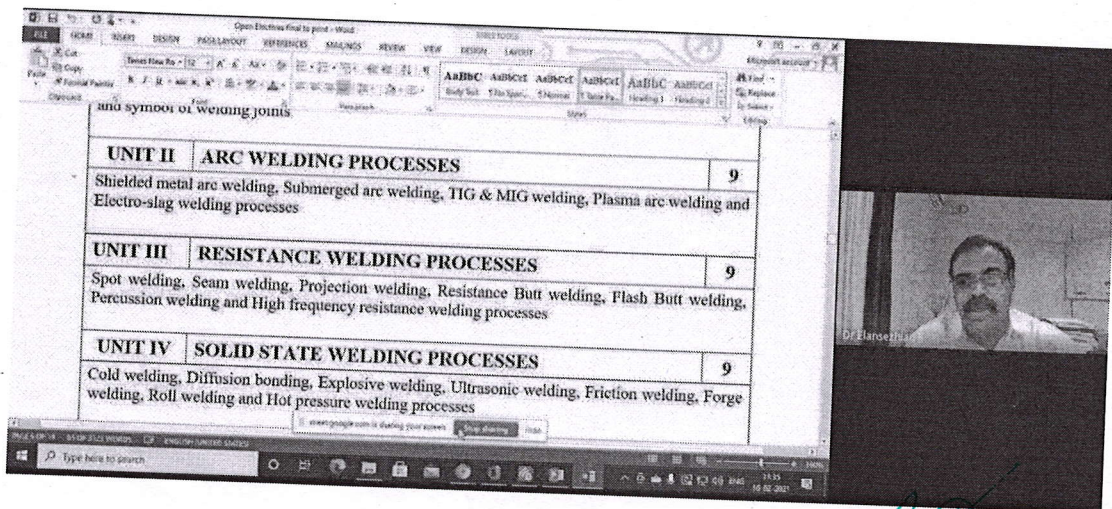
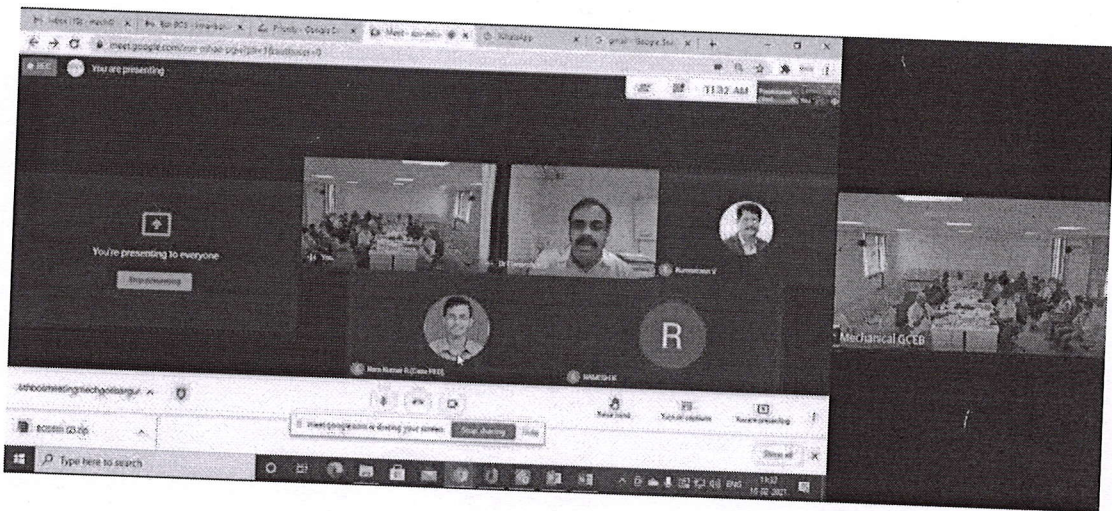


CHAIRMAN
BOARD OF STUDIES

S.No	NAME AND DESIGNATION	Description	Signature
1.	Dr. V. Kumaresan, Associate Professor, Department of Mechanical Engineering, College of Engineering Gundy, Anna University.	UNIVERSITY NOMINEE	Attended through online
2.	Dr. S. Muthukumaran, Professor, Department of Metallurgical and Materials Engineering, National Institute of Technology, Tiruchirappalli.	SUBJECT EXPERTS	Attended through online
3.	Dr. R. Elansezhian Associate Professor, Department of Mechanical Engineering, Pondicherry Engineering College, Puducherry.	SUBJECT EXPERTS	Attended through online
4.	Mr. R. Ram Kumar, Assistant Manager, Case PED, Watches and Accessories Division, Titan Company Limited, Hosur.	REPRESENTATIVE FROM INDUSTRY	Attended through online
5.	Mr. K. Ramesh Senior Associate Consultant, Publicis Sapient- Bangalore.	ALUMNUS	Attended through online
6.	Dr. M. Nataraj, Principal in Charge & Professor of Mechanical Engineering.	Chairman	 16/02/2021
7.	Dr. P. Thirumal, Associate Professor (CAS) of Mechanical Engineering.	Faculty Member	 16/2/21
8.	Thiru. M. Anbarasu, Assistant Professor of Mechanical Engineering.	Faculty Member	 16/2/21
9.	Thiru. S. Tamil Prabakaran, Assistant Professor of Mechanical Engineering.	Faculty Member	 16/2/21
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13.	Dr. A. Kajavali, Associate Professor (CAS) of Mechanical Engineering.	Faculty Member	 16/2/2021
14.	Dr. I. Ashok Kumar, Assistant Professor of Mechanical Engineering.	Faculty Member	 16/02/21.

15.	Dr. D. Thirumalaikumarsamy, Assistant Professor of Mechanical Engineering.	Faculty Member	<i>D. D. Thirumalaikumarsamy</i> 16/2/21
16.	Dr. J. Saravanan, Associate Professor (CAS) of Civil Engineering.	Faculty Member	<i>J. Saravanan</i> 16/2/21
17.	Selvan. M. Akash, Final Year	Student member	<i>M. Akash</i>
18.	Selvi. G. Deepa, Final Year	Student member	<i>G. Deepa</i>
19.	Selvan. S. Prithivraj, Third Year	Student member	<i>S. Prithivraj</i>
20.	Selvan. S. Sakthivel, Third Year	Student member	<i>S. Sakthivel</i>
21.	Selvan. P. Vijaykumar, Second Year	Student member	<i>P. Vijaykumar</i>
22.	Selvan. M. Puthiyaraj, Second Year	Student member	<i>M. Puthiyaraj</i>

Snapshots of 6th BOS Meeting



J. J.
16/2/21

M. V.
16/02/2021

1. revision of curriculum mech R20(Compatibility Model) - Word

FIRST SEMESTER

Familiarization to Dept./Branch & Innovations

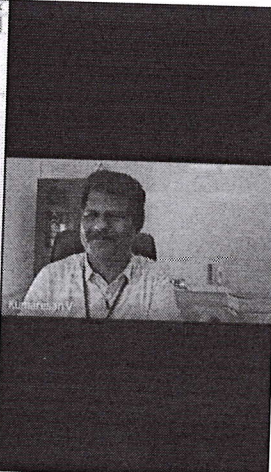
S. No	Subject Code	Course Title	CAT	CONTACT PERIODS	L	T	P	C
THEORY								
1		Engineering Physics	BSC	3	3	1	0	3
2		Engineering Mathematics I	BSC	4	3	1	0	4
3		Basic Electrical Engineering	ESC	3	2	1	0	3
4		Engineering Graphics and Design	BSC	5	1	0	4	3
5		Induction Program	MC	-	-	-	-	0
PRACTICAL								
6		Physics Laboratory	BSC	3	0	0	3	1.5
7		Basic Electrical Engineering Laboratory	ESC	3	0	0	3	1.5
TOTAL				24	8	3	10	18

SECOND SEMESTER

Subject	CONTACT

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1. revision of curriculum mech R20(Compatibility Model) - Word

SECOND SEMESTER

SL.No	Subject Code	Course Title	CAT	CONTACT PERIODS	L	T	P	C
THEORY								
1		Applied Chemistry	BSC	4	3	1	0	3
2		Engineering Mathematics II	BSC	4	3	1	0	4
3		Programming in Python	ESC	3	3	0	0	3
4		Technical English	BSC	2	2	0	0	2
5		Applied Physics	BSC	3	3	1	0	3
6		Constitution of India	MC	1	1	0	0	0
PRACTICAL								
6		Chemistry Laboratory	BSC	3	0	0	3	1.5
7		Programming in Python Laboratory	ESC	3	0	0	3	1.5
8		Workshop Practice	ESC	5	1	0	4	3
9		Communication English Laboratory	BSC	2	0	0	2	1
TOTAL				30	16	3	12	22

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1. Professional Elective Split up (Mech) - Word

18	HEMPE018	Energy Conservation and Management	PEC	3	0	0	3
19	HEMPE019	Industrial Robotics	PEC	3	0	0	3
20	HEMPE020	Computational Fluid Dynamics	PEC	3	0	0	3
21	HEMPE021	Design for Manufacture, Assembly and Environments	PEC	3	0	0	3
22	HEMPE022	Nano Technology	PEC	3	0	0	3
23	HEMPE023	Total Quality Management	PEC	3	0	0	3
24	HEMPE025	Optimization Techniques	PEC	3	0	0	3

Proposed Split up

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Ram Kumar R (Case PED)

Ravi
16/2/21

[Signature]
16/02/21