



School of Mechanical Engineering

Board of Studies Meeting-Held on 16th May 2017 Minutes of Meeting

The following members were present in BoS Meeting.

1. Dr. S. N. Satapathy, Dean, SOME, GU, Chairperson *Sat*
2. Dr. Jayankar Variyar, Pro Vice Chancellor (Academic), GU, Special Invited *Jayankar Variyar*
3. Dr. Andalib Tariq, Associate Professor, IIT Roorkee, External Expert *Andalib Tariq*
4. Dr. Subhasis Maji, Professor, IGNOU, External Expert *Subhasis Maji*
5. Mr. Gagan Agarwal COO, Athena Demwe Power Ltd. Industry Expert.
6. Dr. P. K. S. Nain, Professor, SOME, GU, Member. *Pawan*
7. Dr. B. P. Agarwal, Prof., SOME, GU, Member *B.P. Agarwal*
8. Dr. P. Mathiyalagan, Prof, SOME, GU, Member *P. Mathiyalagan*
9. Dr. Harshdeep Sharma, Prof, SOME, GU, Member *Harshdeep Sharma*
10. Dr. P. Tamilchilvan, Prof, SOME, GU, Member *P. Tamilchilvan*
11. Dr. P. Suresh, Prof., SOME, GU, Member *Suresh*
12. Dr. Swet Chandan, Asso Prof, SOME, GU, Member *Swet Chandan*
13. Dr. S. Kennedy, Asso Professor, SOME, GU, Member *S. Kennedy*
14. Dr. M. Maniraj, Asso Professor, SOME, GU, Member *M. Maniraj*
15. Dr. Gagnesh Sharma, AP, SOCH, GU, Member *Gagnesh Sharma*
16. Mr. Kaushalendra Kumar Dubey AP, SOME, GU, Member *Kaushalendra Kumar Dubey*

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SOME / DOME / SOCH / 16/05/2017

The Following changes were recommended by the Industry and Academic external experts:

General Suggestion

1. In view of recent recommendations By AICTE in its modified curriculum it has been found that 182 credits are too lengthy for B.Tech students .In order to promote more learning and inculcates self-learning habit in to students the learning time per week should be enhanced and hence in line with the AICTE recommendation the total credit reduced to 160 from 180.
2. This task will require regrouping of the subjects, so the content allocation is to be relooked. The important topic which pertain to core content of B.Tech Mechanical and Automobile Engineering should not be omitted in to curriculum so that students participating in competitive exams like UPSC , IES ,GATE ,suffer no loss.
3. As the number of Program and course code are increasing rapidly ,in order to better manage the updated version of courses it is recommended to use alpha numeric code of 6 digit which is used prior to 2017 is to be upgraded in to 8 digit alpha numeric code for more flexibility in design and management of new courses.
4. BoS Members recommended that New courses, Skill/Employability/Entrepreneurship oriented orrelated to latest trends and Innovation in mechanical/Automobile Engineering should offered to students either as core or elective course.
5. M.Tech CAD/CAM Programme scheme was presented and approved in meeting.

Regarding PSOs:

- 1) The key words mentioned in PSOs such as 'Engineering' and 'Research Projects' and 'Software Industry' can be rephrased based on the importance
- 2) The board also suggested that the term related to leadership skills and attitude should be incorporated in PSOs.

It was decided in the meeting that these PSOs are to be sent to the external experts for revision and the modifications to be incorporated.


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Suggestions Regarding the Subjects

- 1) (Product Design Using Graphics)-Free hand sketching should be made mandatory.
- 2) (Machine drawing Lab)-The teaching hours for Unit-4 should be reduced, whereas teaching hours for Unit-1 to be increased.
- 3) (Skill in Solid works) should have a certification course along this course.
- 4) Experts also suggested that School can collect the unused machine components like Pumps, gaskets etc from the industries and make cut section models of them which can be used to for the purpose of further studies also a separate study lab can be set up by using these models.
- 5) The course contents in Heat and mass transfer is more, few portions of the course content can be removed and can be made as a separate elective subject.
- 6) External members suggested the School to invite the industry professionals for delivering lectures to the students. Members responded that the industry professionals from the industries teach students through various workshops organized by the school like the recent one held by NPTI.

Syllabus Revision-

The whole content relooked as credit revised from 180 to 160. These are following courses where 20 % change in syllabus has been proposed in BOS meeting and approved.

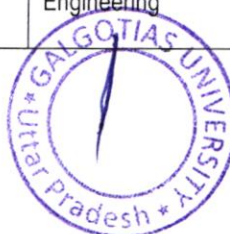
S.No.	Course Name		Course Code
1	B.Tech Mechanical Engineering	Engineering Mechanics	BTME2001
2	B.Tech Mechanical Engineering	Engineering Thermodynamics	BTME2002
3	B.Tech Mechanical Engineering	Manufacturing Processes I	BTME2003
4	B.Tech Mechanical Engineering	Machine Drawing Laboratory	BTME2005
5	B.Tech Mechanical Engineering	Mechanics of Material	BTME2008
6	B.Tech Mechanical Engineering	Fluid Mechanics	BTME2009


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7	B.Tech Mechanical Engineering	Manufacturing Processes II and Metrology	BTME2010
8	B. Tech - Mechanical Engineering	Fluid Mechanics Laboratory	BTME2011
9	B. Tech - Mechanical Engineering	Kinematics of Machines	BTME3002
10	B. Tech - Mechanical Engineering	Dynamics of Machines	BTME3008
11	B.Tech Automobile Engineering	Dynamics of Machines	BTME3008
12	B.Tech Automobile Engineering	Engineering Mechanics	BTME2001
13	B.Tech Automobile Engineering	Engineering Thermodynamics	BTME2002
14	B.Tech Automobile Engineering	Manufacturing Processes I	BTME2003
15	B.Tech Automobile Engineering	Machine Drawing Laboratory	BTME2005
16	B.Tech Automobile Engineering	Mechanics of Material	BTME2008
17	B.Tech Automobile Engineering	Fluid Mechanics	BTME2009
18	B.Tech Automobile Engineering	Manufacturing Processes II and Metrology	BTME2010
19	B.Tech Automobile Engineering	Fluid Mechanics Laboratory	BTME2011
20	B.Tech Automobile Engineering	Kinematics of Machines	BTME3002
21	B.Tech Automobile Engineering	Automotive Engines	BAUT3001
22	B.Tech Automobile Engineering	Heat Engineering	BAUT3002
23	B.Tech Automobile Engineering	Automotive Chassis and Body Engineering	BAUT3004


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24	B.Tech Automobile Engineering	Automotive Transmission Systems	BAUT3005
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New course Introduced-

The following new courses based on skill in mechanical software application, latest trends and innovation in mechanical/ Automobile Engineering/Software programming has been discussed and improved for implementation by BOS members.

S. No.	Year	Program	Course Name	Course Code
1	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Introduction to Mechanical Engineering	BTME1001
2	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Exploration with CAS-I	MATH1002
3	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Application Oriented Programming using Python	BCSE1003
4	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	SKILL-1 (Solid Works)	BTME2006
5	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	PBL-1 (Machine Drawing / Mechanics)	BTME2007
6	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Probability and Statistics	MATH2003
7	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Microeconomics	BBAD 1003
8	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Management Course (from basket)	UE1

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9	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	PBL-2(Material microstructures)	BTME2014
10	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	PBL-3(Applied Thermodynamics)	BTME3005
11	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	IT skill Development on OOPs and DBMS	BTME3016
12	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	AI & Machine Learning using Python	BTME3017
13	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Quality and Reliability Engineering	BTME4006
14	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Project Management	BTME4010
15	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Comprehensive Examination	BTME4004
16	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Energy Systems Lab	BTME4003
17	2017-18	B.Tech/B.Tech (Hons) Mechanical Engineering	Additive Manufacturing	BTME4009
18	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	Introduction to Mechanical Engineering	BTME1001
19	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	Exploration with CAS-I	MATH1002
20	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	Application Oriented Programming using Python	BCSE1003
21	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	SKILL-1 (Solid Works)	BTME2006
22	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	PBL-1 (Machine Drawing / Mechanics)	BTME2007

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23	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	Probability and Statistics	MATH2003
24	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	Microeconomics	BBAD 1003
25	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	Management Course (from basket)	UE1
26	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	PBL-2-(Material microstructures)	BTME2014
27	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	PBL-3-(Applied Thermodynamics)	BTME3005
28	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	IT Skill Development on OOPs and DBMS	BTME3016
29	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	AI & Machine Learning using Python	BTME3017
30	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	Pollution control and Lubrication Engineering	BAUT4006
31	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	Quality and Reliability Engineering	BTME4006
32	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	Project Management	BTME4010
33	2017-18	B.Tech/B.Tech (Hons) Automobile Engineering	Comprehensive Examination	BTME4004
34	2017-18	M.Tech CAD-CAM	Advanced Numerical and Statistical Methods	MATH5001
35	2017-18	M.Tech CAD-CAM	Advanced Strength of Materials	MCDM5001
36	2017-18	M.Tech CAD-CAM	Advanced Materials and Processing	MCDM5002
37	2017-18	M.Tech CAD-CAM	Advanced Manufacturing Technology	MCDM5003

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38	2017-18	M.Tech CAD-CAM	Product Design and Life Cycle Management	MCDM5004
39	2017-18	M.Tech CAD-CAM	Advanced Computer Aided Design	MCDM5005
40	2017-18	M.Tech CAD-CAM	Professional and Communication Skills	CENG5001
41	2017-18	M.Tech CAD-CAM	Finite Element Methods	MCDM5006
42	2017-18	M.Tech CAD-CAM	Computer Integrated Manufacturing	MCDM5007
43	2017-18	M.Tech CAD-CAM	Advanced Vibration Engg.	MCDM5008
44	2017-18	M.Tech CAD-CAM	Computer Aided Process Planning	MCDM5009

The syllabi and curriculum for All Program has been discussed and same has been approved for the Scheme (2017-18).

The syllabi and curriculum of scheme (2017-18) for First year has been discussed and same has been approved by Dean First year.

Appreciation

The external members of BoS appreciated the Chairperson for having invited people from the industries as Experts in BoS.

BoS ended with the address of Vote of thanks by Dr. J .Ronald Aseer, Program Chair ,SOME


Dean

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