

**GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA**

(An Autonomous College u/s 2 (f) and 12 (B) of UGC Act 1956)

**DEPARTMENT OF MECHANICAL ENGINEERING**

No.ME/ \_\_\_\_\_

Dated: \_\_\_\_\_

**MINUTES OF MEETING**

A meeting of Board of Studies (Mechanical Engineering) was held on 31.05.2019(Friday) at 11.00 am in the Committee Room of the Institute.

Following were the agenda Points:-

1. Discussion and approval of detailed contents of the courses of 3<sup>rd</sup> and 4<sup>th</sup> semester B.Tech. (Mechanical Engineering) of 2018 admission batch onwards.
2. To discuss and approve the curriculum (study scheme) of M.Tech. (Mechanical Engineering) of 2019 admission batch onwards.
3. Any other issue with the permission of the Chairman BOS.

Following members of the BOS, external expert and special invitee were present and actively participated:-

1. Dr. Paramjit Singh Bilga	Chairman
2. Dr. H.S. Shan	Member
3. Dr. Pardeep Rajan	Member
4. Dr. S.P Singh	Member
5. Dr. Harmesh K Kansal	Member
6. Dr. Harmeet Singh	Member
7. Dr. Jatinder Kapoor	Member
8. Dr. Amit Kamra	Member [COE Nominee]
9. Er. Gagandeep Singh Sodhi	Member[Dean (T&P)]
10. Dr. Sugandh Malhotra	External Expert ( IIT Bombay)
11. Dr. Subhash Chandra	External Expert (NIT, Jalandhar)
12. Er. Davinder Singh Bhogal	Special Invitee (GNDEC)
13. Er. Gurmeet Kaur	Special Invitee (GNDEC)
14. Er. Pushpinder Singh	Special Invitee (GNDEC)

Following members of the BOS couldn't attend the meeting:-

1. Er. D.S Dogra	Member
2. Dr. Jatinder Madan	Member
3. Dr. Harwinder Singh	Member
4. Er. Deepinder Singh	Member
5. Dean (Academics)/Nominee	Member
6. Dr. Sehijpal Singh	Principal (GNDEC)
7. Dr. P.M.V. Subbarao	External Expert ( IIT Delhi)

The following decisions were taken unanimously based upon the discussions and suggestions of various members of BOS, external expert and special invitees:-

- 1) In regard to the detailed contents of the courses of 3<sup>rd</sup> and 4<sup>th</sup> semester B.Tech. (Mechanical Engineering) of 2018 admission batch onwards following modifications had been suggested:-
  - a) There should be COURSE STATUS instead of ELECTIVE STATUS in syllabus template.

*PSBilga*  
05/07/2019



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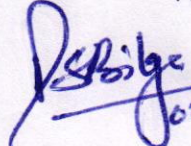
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- b) In all the Syllabi of B. Tech, Mechanical Engineering Batch 2018 onwards there shall be five text books and maximum of six reference books with authors (at least 2-3 Foreign/Indian authors) from the same field/subject area and renowned/reputed publications.
  - c) Include the Topics of MIG, TIG, Gas welding, Cutting Tool Geometry and Cutting Tool materials in course of Manufacturing Processes under the Chapters of Welding Processes and Cutting processes respectively.
  - d) Advance Processes of Welding, Casting and Forming shall be included in Modern Manufacturing Processes.
  - e) In course of Engineering Materials and Metallurgy, change the name of 5<sup>th</sup> Chapter to Metals and Alloys.
  - f) Dimensionless numbers (Reynolds, Froude's, Euler, Mach and Weber) shall be included in the course of Fluid Mechanics and Machinery under the Chapter of Fluid Kinematics and Fluid Dynamics.
  - g) In course of Machine Drawing & Computer Aided Design, change the name of Free-hand sketches to Freehand Proportional Sketches. Further, the most of the fundamental topics/contents related to geometric modeling, geometric transformations and curves and surfaces shall be omitted but essential contents related to CAD practices shall be included. Separate Chapter on Limits, Fits and Tolerances shall be included. Modify the practice part of syllabus as per the suggestions (for e.g. topic 1 shall be merged/ practiced with the contents of the assembly of various Mechanical Components and both Manual/ CAD based practice of assemblies of various Mechanical Components shall be carried out).
  - h) Modify the list of practicals/ experiments based on the modified contents of "Modern Manufacturing Processes" theory subject and availability of the equipment in the college and accordingly change the CO's based on learning imparted to students.
  - i) Minor modifications were suggested for the courses of Applied Thermodynamics, Engineering Mechanics, Strength of Materials and Theory of Machines.
- 2) In regard to discussion and approval the curriculum (study scheme) of M.Tech. (Mechanical Engineering) of 2019 admission batch onwards following changes were suggested:
- a) First semester shall have all core subjects and no elective subjects.
  - b) Students of final year B.Tech. programme can also opt for M.Tech. Elective subjects and note regarding this can be incorporated in the study scheme of B. Tech Mechanical Engineering 2018 Batch onwards.
  - c) Course/s of Ergonomics/ Human factors/ Condition Monitoring shall be included in list of electives.
  - d) Modify the Point No. 1 of Note as "A Student can opt any five Programme Elective subjects subjected to fulfilling of their Pre-requisites".
- 3) Under agenda Point No. 3 i.e. any other issue with the permission of the Chairman BOS, following supplementary agenda points were discussed and unanimous decisions were made:
- i. Syllabus of TR-101 Institutional Training to be held in the college Workshops/labs at the end of 2<sup>nd</sup> Semester for Four (04) weeks duration.
  - ii. Eligibility criteria of M. Tech. Mechanical Engg.
  - iii. PEO, PO and PSO of M. Tech. Mechanical Engg.

  
05/07/2019



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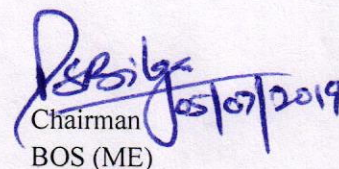
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- a) In syllabus of TR-101 Institutional Training to be held in the college Workshops/labs at the end of 2<sup>nd</sup> Semester for Four (04) weeks duration., the students will be required to perform (in groups) the utility based projects based on their learning in first year.
- b) Eligibility of M. Tech. Mechanical Engineering shall be as per the University Criteria but some modifications in the eligibility may be suggested to University for approval which will include some specific branches of B. Tech/B.E. fulfilling the pre-requisites course to undergo M. Tech. Mechanical Engineering Programme.
- c) Expert advice on PEO, PO and PSO of M. Tech. Mechanical Engg. had been taken to finalize the same.

  
Chairman  
BOS (ME)

Encl.:

1. Approved copy of Study Scheme of M. Tech. (Mechanical Engineering) 2019 admission batch onwards.
2. Approved copy of detailed contents of 3<sup>rd</sup> and 4<sup>th</sup> semester B.Tech. (Mechanical Engineering) 2018 admission batch onwards.
3. Approved copy of question paper format of Machine Drawing & Computer Aided Design.
4. Approved copy of syllabus of "TR-101 Institutional Training".
5. Approved copy of PEO's, Po's and PSO's of M.Tech. (Mechanical Engineering) 2019 admission batch onwards.
6. Suggestions about modifications in eligibility criteria M.Tech. (Mechanical Engineering).