

I.K. Gujral Punjab Technical University

Date: 10/07/2017

(Minutes of Meeting)

Board of Studies of Mechanical Engineering/Production Engineering/Industrial Engineering/Automobile Engineering

A meeting of the Board of Studies (Mechanical Engineering/Production Engineering/Industrial Engineering/Automobile Engineering) constituted vide Notification No. IKGPTU/Reg/NF/26 dated 01/03/17 was held on July 10th, 2017 at 11:00 in the conference hall, Department of Academics, G+3 Building, main campus, I.K. Gujral Punjab Technical University, Jalandhar, Jalandhar-Kapurthala highway, Punjab.

The agenda of the meeting was:

- To discuss the skeleton and syllabus of M.Tech. Mechanical Engineering.
- To discuss and study suggestions regarding the new scheme of B.Tech proposed by Dean Academic Office. The syllabus is likely to be revised for 2018-19.
- To discuss any other matter with the permission of Chair.

Following members of the BOS were present and actively participated:

1. Dr. Vikas Chawla, Chairman (Professor & Head M.E.D., IKGPTU Main Campus)
2. Dr. Buta Singh Sidhu, Special Invitee (Dean P&D, MRSPTU, Bathinda)
3. Dr. S.P. Singh, Member (Professor, M.E.D., IIT Delhi)
4. Dr. Harwinder Singh, Member (Professor, M.E.D., GNDEC, Ludhiana)
5. Dr. Om Pal Singh, Member (Professor, M.E.D., BCET, Gurdaspur)
6. Dr. Paramjit Singh Bilga, Member (Professor, M.E.D., GNDEC, Ludhiana)
7. Dr. Neelkanth Grover, Member (Assoc. Professor, M.E.D., IKGPTU Main Campus)
8. Dr. Dilbag Singh, Member (Assoc. Professor, M.E.D., BCET, Gurdaspur)
9. Dr. Deepak Kumar Goyal, Coordinator (A. P., M.E.D., IKGPTU Main Campus)
10. Dr. Jujhar Singh, Member (A. P., M.E.D., IKGPTU Main Campus)
11. Dr. Amoljit Singh Gill, Member (A. P., M.E.D., IKGPTU Main Campus)

Following members of BOS could not attend the meeting:

1. Dr. Dinesh Kumar, Member (Professor, M.E.D., IIT Roorkee)
2. Dr. Ajay Batish, Member (Professor, M.E.D., Thapar Univ., Patiala)
3. Dr. Sumit Jain, Member (Assoc. Professor, CTIMT, Jalandhar)
4. S. Navdeepak Sandhu, Member (Dy. Director, CR&A, IKGPTU)

The Board has taken the following decisions:

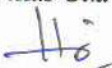
1. The skeleton of M.Tech. Mechanical Engineering was discussed and finalised. The same is attached herewith. Further, it has been recommended to adopt the same for the session 2017-2018.
2. The task of designing the detailed syllabus of various courses of 1st semester of M.Tech. Mechanical Engineering have been assigned to following members:

| Subject | BOS Members |
|---------------------------------------|--|
| Advanced Engineering Materials | Dr. Buta Singh Sidhu Dr. Vikas Chawla Dr. Jujhar Singh |
| Finite Element Analysis | Dr. S.P.Singh Dr. Neel Kanth Grover |
| Advanced Design of Mechanical Systems | Dr. S.P.Singh Dr. Harwinder Singh Dr. Amoljit Singh Gill |
| Operations Management | Dr. Om Pal Singh Dr. Dilbag Singh Dr. Deepak Kumar Goyal |
| Advanced Thermodynamics | Dr. Paramjit Singh Bilga Dr. Neel Kanth Grover |


The members are requested to complete the given task within one week.

3. It has been suggested that if a student selects all the three elective subjects from the same group of electives and also completes his/her project and dissertation in the same field, he/she may be awarded a separate/ additional certificate indicating the more concentration in particular field e.g. Manufacturing, Industrial, Design or Thermal Engineering of his/her M.Tech. degree.
4. Regarding the proposed new study scheme of B.Tech. for the session 2018-19, it has been recommended that the new study scheme should be as per the UGC guidelines related to the same for the session 2018-19.


Dr. Vikas Chawla


Dr. Harwinder Singh

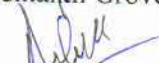

Dr. Dilbag Singh


Dr. Jujhar Singh


Dr. Buta Singh Sidhu

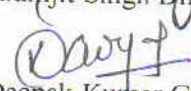

Dr. Om Pal Singh


Dr. Neelkanth Grover


Dr. Amoljit Singh Gill


Dr. S.P. Singh


Dr. Paramjit Singh Bilga


Dr. Deepak Kumar Goyal

**Study Scheme of M.Tech. Mechanical Engineering
(2017 Admission Batch Onwards)**

| SEMESTER 1 st | | Contact Hours/Week | | | Maximum Marks | | | Credits |
|--------------------------|---------------------------------------|--------------------|----------|----------|---------------|------------|------------|-----------|
| Subject Code | Subject Name | L | T | P | Int. | Ext. | Total | |
| XXXX | Advanced Engineering Materials | 4 | 0 | 0 | 50 | 100 | 150 | 4 |
| XXXX | Finite Element Analysis | 3 | 1* | 0 | 50 | 100 | 150 | |
| XXXX | Advanced Design of Mechanical Systems | 3 | 1* | 0 | 50 | 100 | 150 | |
| XXXX | Operations Management | 4 | 0 | 0 | 50 | 100 | 150 | |
| XXXX | Advanced Thermodynamics | 4 | 0 | 0 | 50 | 100 | 150 | |
| Total | | 18 | 2 | 0 | 250 | 500 | 750 | 20 |

Total Contact Hours/Week = 20
*Tutorials involve problems solving sessions including practice on relevant software

| SEMESTER 2 nd | | Contact Hours/Week | | | Maximum Marks | | | Credits |
|--------------------------|--------------------------------|--------------------|----------|----------|---------------|------------|------------|-----------|
| Subject Code | Subject Name | L | T | P | Int. | Ext. | Total | |
| XXXX | Research Methodology | 3 | 1* | 0 | 50 | 100 | 150 | 4 |
| XXXX | Tribology | 4 | 0 | 0 | 50 | 100 | 150 | |
| XXXX | Modern Manufacturing Processes | 4 | 0 | 0 | 50 | 100 | 150 | |
| XXXX | Computational Fluid Dynamics | 3 | 1* | 0 | 50 | 100 | 150 | |
| XXXX | Elective -I | 4 | 0 | 0 | 50 | 100 | 150 | |
| Total | | 18 | 2 | 0 | 250 | 500 | 750 | 20 |

Total Contact Hours/Week = 20
*Tutorials involve problems solving sessions including practice on relevant software

| SEMESTER 3 rd | | Contact Hours/Week | | | Maximum Marks | | | Credits |
|--------------------------|--------------|--------------------|----------|-----------|---------------|------------|------------|-----------|
| Subject Code | Subject Name | L | T | P | Int. | Ext. | Total | |
| XXXX | Elective-II | 4 | 0 | 0 | 50 | 100 | 150 | 4 |
| XXXX | Elective-III | 4 | 0 | 0 | 50 | 100 | 150 | |
| XXXX | Project | - | - | 12 | 50 | 50 | 100 | 6 |
| XXXX | Seminar | - | - | 4 | 100 | -- | 100 | |
| Total | | 8 | 0 | 16 | 250 | 250 | 500 | 16 |

Total Contact Hours/Week = 16

| SEMESTER 4 th | | Contact Hours/Week | | | Evaluation Criteria | Credits |
|--------------------------------------|---|--------------------|----|-----------------------------|---------------------|---------|
| Subject Name | L | T | P | | | |
| Dissertation | 0 | 0 | 28 | Satisfactory/Unsatisfactory | 14 | |
| Total Contact Hours/Week = 28 | | | | | | |

Total Credits for the Programme: 70

A collection of handwritten signatures and initials in blue ink, including names like 'Devi', 'Dhruv', and 'Dany', along with various initials and a small number '3'.

