

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA
(An Autonomous College u/s 2 (f) and 12 (B) of UGC Act 1956)
DEPARTMENT OF MECHANICAL ENGINEERING

Dated: 28-2-2019

No. ME/ 26/3763

MINUTES OF MEETING

A meeting of Board of Studies (Mechanical Engineering) of Guru Nanak Dev Engineering, Ludhiana constituted by Principal vide Office Order No. RK38/2042 dated 16.11.17 was held on 20.02.2019 (Wednesday) at 11.00 am in the Committee Room, of the Institute.

Following were the agenda Points:-

1. To discuss and approve the curriculum (study scheme) of B.Tech (Mechanical Engineering) of 2018 admission batch onwards.
2. To discuss and approve the detailed contents of the course of following elective subjects of 2014-2018 study scheme:-
 - i. DEME 14101 IC Engine.
 - ii. DEME 14612 Heat Treatment Processes.
3. Discussion and approval of detailed contents of the courses of 3rd and 4th semester B.Tech. (Mechanical Engineering) curriculum of 2018 admission batch onwards.
4. Any other issue with the permission of the Chairman BOS.

Following members of the BOS were present and actively participated:-

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|------------------------------|----------|
| 1. Dr. Paramjit Singh | 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. Harwinder Singh | Member |
| 8. Dr. Jatinder Kapoor | Member |
| 9. Er. Deepinder Singh | Member |
| 10. Dean (Academics)/Nominee | Member |
| 11. COE/Nominee | Member |
| 12. Dean (T&P)/Nominee | Member |

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

- | | |
|-----------------------|--------|
| 1. Er. D.S Dogra | Member |
| 2. Dr. Jatinder Madan | Member |

Following Special Invitees were also present in the meeting:

- | | |
|------------------------------|-------------------|
| 1. Dr. Sehijpal Singh | Principal (GNDEC) |
| 2. Er. Davinder Singh Bhogal | Asstt. Prof. (ME) |
| 3. Er. Prem Singh | Asstt. Prof. (ME) |
| 4. Er. Ardamanbir Singh | Asstt. Prof. (ME) |
| 5. Er. Aprinder Singh Sandhu | Asstt. Prof. (ME) |

Following Special Invitees could not attend the meeting:

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|---------------------|-------------------|
| 1. Er. Gurmeet Kaur | Asstt. Prof. (ME) |
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Signature
28/02/2019

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The following decisions were taken unanimously based upon the discussions and suggestions of various members of BOS and Special Invitees:-

- 1) In regard to the Study Scheme of B.Tech (Mechanical Engineering) of 2018 admission batch onwards following modifications had been suggested:-
 - a) The Engineering Mechanics subject shall be under Engineering Science courses and being very fundamental course for Mechanical Engineers its credits shall be increased from 2 credits to 3 credits.
 - b) The subjects of Manufacturing Science – I and Manufacturing Science – II shall be renamed as Manufacturing Processes and Modern Manufacturing Processes respectively and the contents of manufacturing technology shall also be included alongwith contents related to manufacturing sciences.
 - c) GNDEC being mainly catering to rural area students, some subjects/courses or contents related to Rural Technologies or Sustainable Technologies shall be made part of the curriculum.
 - d) The credits for elective subjects shall be made flexible between 2-4 credits in order to increase the number of elective subjects in the form of theory as well as practical/practice and to cover Special topic/s of Mechanical Engineering.
 - e) There is no need of separate lab of Computer Aided Manufacturing (CAM) course and the requisite contents needed shall be included in some other relevant subject/lab.
- 2) The detailed contents of following elective subjects of 2014-2018 study scheme had been approved with minor modifications (Copies attached):-
 - i) DEME 14101 IC Engine.
 - ii) DEME 14612 Heat Treatment Processes.
- 3) A detailed discussion on the contents of the courses of 3rd and 4th semester B.Tech (Mechanical Engineering) curriculum of 2018 admission batch onwards had been held and following modifications and suggestions had been proposed:-
 - a) The topics/ contents related to piping and instrumentation diagram (P&ID), Building Information and Management System (BIMS), Computational Fluid Dynamics (CFD) and digital manufacturing shall be included in appropriate subjects.
 - b) The course of Industrial Automation and Robotics must include some contents related to mechatronics and DH (Denavit-Hartenberg) parameters.
 - c) The contents of Thermodynamics shall be reduced and some important/requisite contents could be made a part of Topics for Self Learning (TSL).
 - d) Topics of Probability and Statistics must be included in course of Mathematics-III.
 - e) Concept of Similitude and Hydro Power Plant shall be included in course of Fluid Mechanics and Machinery.
 - f) Basics of Industrial Engineering must be incorporated in the course of Operations Research.
 - g) Include some contents of Machine Tools and various finishing processes in course of Manufacturing Processes.
 - h) The contents of Engineering Mechanics must include topics of Trusses and frames.
 - i) The contents related to kinematics, flywheel and governors must be included in Theory of Machines subject.
- 4) The proposed study scheme for 3rd to 8th Semester B.Tech. (Mechanical Engineering) curriculum of 2018 admission batch onwards has been modified in light of the above and a new study scheme for 3rd to 8th semester B.Tech. (Mechanical Engineering) curriculum of 2018 admission batch onwards had been

[Signature]
28/2/2019

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finalized and approved (Copy attached). The detailed contents of various courses of 3rd and 4th semester B.Tech. (Mechanical Engineering) curriculum of 2018 admission batch onwards will be finalized in the next meeting alongwith the remaining courses of subsequent semesters.


Chairman 28/2/2019
BOS (ME)

Encl.:

1. Approved copy of syllabus of subject DEME 14101 IC Engine.
2. Approved copy of syllabus of subject DEME 14612 Heat Treatment Processes.
3. Approved copy of Study Scheme for 3rd to 8th semester B.Tech. (Mechanical Engineering) curriculum of 2018 admission batch onwards.