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

MINUTES OF MEETINGS
BOARD OF STUDIES (BOS)

A meeting of Board of Studies (Mechanical Engineering) was held on 14/07/2016 at 10:30 a.m. in the College Committee Room of Guru Nanak Dev Engg. College, Ludhiana. Following were the agenda items:

1. To approve the contents of various subjects of 5th and 6th semester for 2014 admission batch onwards.
2. To approve panel of paper setters.
3. Misc.

The following members of BOS were present:

1. Dr. Paramjit Singh
2. Dr. H. S. Shan
3. Er. Gursharan Singh
4. Dr. Harwinder Singh
5. Dr. Jatinder Kapoor
6. Dr. Harmeet Singh
7. Er. Deepinder Singh
8. Dr. Gurinder Singh Brar

The following members of BOS were not able to attend the meeting:

1. Dr. Shijpal Singh
2. Dr. Ajay Batish
3. Dr. Sandeep Grover
4. Dr. Inder Deep Singh
5. Dr. B. S. Sangha

Following minutes of the meeting were unanimously decided after discussion:

- I. The syllabus of all the courses of 5th to 8th semester of B. Tech. (Mechanical) - 2014 Admission batch onwards shall be designed for 12 weeks contact of lectures. This means that the total contact hours allocated to all units in the syllabus of each course = No. of lectures per week of respective course \times 12.
- II. The proposed contents of syllabi of 5th and 6th Semester Courses and Elective Courses of B. Tech. (Mechanical) - 2014 Admission batch onwards were considered and approved with the following changes:-
 - i. The term Self Learning Exercises (SLE) should be changed to Topics for Self Learning (TSL).
 - ii. TSL shall be evaluated in assignments ONLY. A note regarding this must be given in the syllabus of each course having TSL.
 - iii. In the syllabus of all the courses, each suggested book should contain edition and year of publication.

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- iv. The use of the any one of the following Design Data Book/Hand Book is allowed ONLY in the course of Design of Machine Elements-II in 6th semester:-
1. Design Data Book, PSG College of Engineering and Technology. Coimbatore, Revised Edition, 1978, Reprint in 2010.
 2. Design Data Handbook for Mechanical Engineers. Mahadevan. K. and Reddy Balveera, K., CBS Publishers and Distributors Pvt. Ltd., 4th Edition, 2013.
 3. Design Data Book, Jadon, V.K., I.K. International Publishers, 2nd Edition, 2010.
- III. The contents of syllabus for the following leftover elective subjects related to 5th and 6th semester B. Tech. (Mechanical) will be reviewed in the coming meetings:

I. SPECIALIZATION GROUP	II. MATERIALS GROUP
(1) THERMAL DME 14101 I.C Engines DME 14102 Cryogenic Technology DME 14104 Energy Conservation and Management DME 14105 Fluid Mechanics-II DME 14106 Solar Energy DME 14107 Heat Exchanger Design DME 14108 Power Plant Engg. DME 14109 Gas Dynamics (2) MANUFACTURING DME 14202 Modern Welding and Forming Processes DME 14203 Computer Integrated Manufacturing DME 14204 Computer Aided Process planning DME 14205 Machining Science DME 14206 Rapid Prototyping DME 14207 Modern Casting Processes DME 14208 Micromachining Technologies DME 14209 Manufacturing Systems (3) DESIGN DME 14301 Design for X DME 14303 Machine Tool Design DME 14304 Tool Design DME 14305 Experimental Stress Analysis DME 14306 Industrial Tribology DME 14307 Theory of Plasticity DME 14308 Mechatronics	DME 14402 Heat Treatment Processes DME 14403 Plastic Technology DME 14404 Characterization of Materials DME 14405 Degradation of Materials DME 14406 Composite Materials DME 14407 Surface Science

- IV. Pattern of End Semester Examinations question paper was modified as follows:
- a) Question paper will consist of total Nine (09) questions distributed among three parts: Part A, Part B and Part C.
 - b) Part A will consist of One (01) question having Ten (10) parts, each of Two (02) marks. Five (05) questions will be asked from each section of the syllabus i.e. Section A and Section B, covering maximum units of respective section. Candidate has to attempt all parts of this question.
 - c) Part B will consist of Five (05) questions, each of Five (05) marks. Minimum Two (02) questions have to be asked from each section of syllabus i.e. Section A

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and Section B. Candidate has to attempt any Four (04) questions out of these Five questions.

- d) Part C will consist of Three (03) questions, each of Ten (10) marks. Out of these Three questions, Two (02) questions have to be asked taking One (01) from each section of syllabus i.e. Section A and Section B and **the third question has to be from that section of syllabus from which two questions have been asked in Part B of question paper.** Candidate has to attempt any Two (02) questions out of these three questions.
- e) The above points (a) to (d) will not be applicable for courses related to Machine Design/ Drawing. For pattern of question paper of such courses reference may be made to the note given in the syllabus of these courses.
- V. The evaluation of Industrial visits undergone by students during 4th semester shall be done at the end of the 4th semester.
- VI. Internal & External Evaluation of Six Weeks Industrial/Institutional Training undergone by students at the end of 4th semester shall be done in the first month of the 5th semester.
- VII. A meeting of Chairpersons of BOS of all Departments for formulating a common policy for evaluation of Six Weeks Industrial/Institutional training of all departments may be called by Dean (Academic).
- VIII. The modification of the note regarding Industrial/ Institutional Training in the study scheme of 4th and 5th semester shall be as under:
- For 4th Semester:**
- During the semester, each student has to visit the selected local industry five times in such a way that he/she has to make at least one visit in the same industry each month.
 - He/She has to maintain a record of each visit in a diary. The evaluation of these Industrial visits will be done by a committee consisting of faculty members at the end of the semester out of 20 marks. These marks will be part of internal marks for the Industrial Training/ Institutional Training given in 5th semester study scheme.
- For 5th Semester:**
- i. * Marks of Industrial/ Institutional Training undergone during and at the end of 4th semester.
 - ii. Internal & External Evaluation of Industrial/Institutional Training shall be done in the first month of the 5th semester.
 - iii. Internal Evaluation of Industrial/Institutional Training shall be done by a committee of faculty members.

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- iv. External Evaluation of Industrial/Institutional Training shall be done by a Committee consisting of an External Examiner from Industry and Faculty Member (s).
 - v. The Internal Evaluation of Industrial/Institutional Training consists of two parts, out of 20 marks for Industrial Visits done during 4th semester, and out of 40 marks for Industrial/Institutional Training undergone at the end of 4th semester.
- IX. The panel of experts for setting of End Semester Examination Question Papers for previous semester (Jan – June, 2016) has been considered and approved. For the next coming semesters, the panel of experts for setting of End Semester Examination Question Papers will be modified and will be put for consideration and approval in the next meeting.
- X. Under the 3rd item of agenda, the discussion regarding the industrial/ institutional training components of the program and syllabi of previous semesters was done and following point were decided:-
1. The points regarding One Semester Industrial and Software Training of 7th/8th semester will be reviewed in coming meetings.
 2. The division of contents of syllabi into section A and section B of 3rd and 4th semester courses and inclusion of TSL in them will be considered in the coming meetings.

Dr. Sehijpal Singh
Chairman
Board of Studies (Mechanical Engineering)