

**DEPARTMENT OF MECHANICAL ENGINEERING
HBTU KANPUR**

Course Structure, Evaluation Scheme

&

Detailed Syllabus of

1. B.Tech. Mechanical Engineering
2. M.Tech. Computer Aided Design (Full time)
3. M.Tech. Mechanical Engineering Design (Part time)
4. M.Tech. Industrial Systems Engineering (Part time)

(Effective from Session 2017-18)

No. 196 /MED/Int./2018
September 18, 2018

DEPARTMENT OF MECHANICAL ENGINEERING
NOTICE

All Faculty Members

Department of Mechanical Engineering is organizing Second meeting of the Board of Studies on September 22, 2018 (Saturday) at 3:30 P.M. to finalize course curriculum and evaluation scheme for UG and PG programme running in the Department. List of External Examiners for M.Tech. Thesis evaluation and the list of External Examiners for B.Tech. Practical Examinations are also to be approved.

All the faculty members are requested to attend the meeting.

18.9.18

Prof. Anand Kumar

Head, Mechanical Engineering Department

Department of Mechanical Engineering

School of Engineering
H.B.T.U. Kanpur-208002
Chairman, Board of Studies

Mobile No.: 7081300504, 9450334645

19/6/18
19/9/18

DEPARTMENT OF MECHANICAL ENGINEERING

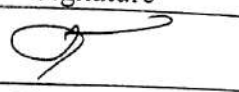

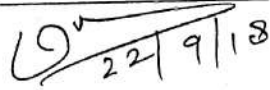
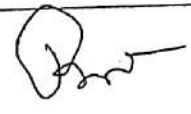


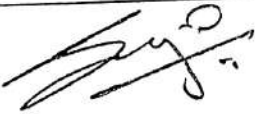
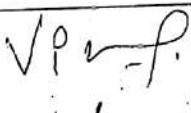
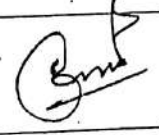
Agenda of 2nd Board of Studies (BOS) Meeting

Department of Mechanical Engineering is organizing Second Board of Studies meeting on **September 22, 2018** (Saturday) at **3:30 PM** in the Committee Room of the Department.

Following is the agenda of the meeting:

1. Approval of Course Curriculum and Evaluation Scheme of B.Tech. programme in Mechanical Engineering.
2. Approval of Course Curriculum and Evaluation Scheme of M.Tech. programmes:
 - a. Computer Aided Design (Full time).
 - b. Mechanical Engineering Design (Part time).
 - c. Industrial Systems Engineering (Part time).
3. Approval of list of External Examiners for M.Tech. Thesis evaluation.
4. Approval of the list of External Examiners for B.Tech. Practical Examination.
5. Approval of the MOOC courses which can be offered in lieu of Elective courses running in B.Tech. and M.Tech. / Ph.D. programmes.
6. Any other matter with the permission of Chair.

Following attended the Meeting of Board of Studies (Mechanical Engineering) held on September 22, 2018 at 3:30 P.M. in the Committee Room of Department of Mechanical Engineering

Sl.No.	Name with affiliation		Signature
1	Prof. Anand Kumar, Head, Department of Mechanical Engineering	Chairman	
2	Prof. J. Ramkumar, Dept. of Mech. Engg., IIT, Kanpur	University Nominee	 22/9/18
3	Prof. Anindya Chatterjee, Dept. of Mech. Engg., IIT, Kanpur	Academic Council Nominee	—
4	Prof. R.K. Srivastava, Dept. of Mech. Engg., MNNIT, Allahabad	Academic Council Nominee	—
5	Er. S.B. Yadav, Scientist-G, DMSRDE, Kanpur	Corporate Member	—
6	Sh. Rajesh Singh, Joint GM, Ordnance Factory, Kanpur	Alumni	—
7	Prof. Onkar Singh, Department of Mechanical Engineering	Member	 22/9/18
8	Prof. Rajive Gupta, Department of Mechanical Engineering	Member	
9	Prof. S.K. Singhal, Department of Mechanical Engineering	Member	
10	Sh. J. Bhaskar, Associate Prof., Department of Mechanical Engineering	Member	
11	Dr. S.K.S. Yadav, Asstt. Prof., Department of Mechanical Engg.	Member	
12	Dr. V.P. Singh, Asstt. Prof., Department of Mechanical Engg.	Member	
13	Sh. R.K. Ambikesh, Asstt. Prof., Dept. of Mechanical Engg.	Member	

Minutes of the 2nd Meeting of Board of Studies held in Department of Mechanical Engineering on September 22, 2018 at 3:30 PM.

Following were present in the meeting:

01. Prof. Anand Kumar, Prof. & Head, Dept. of Mechanical Engineering	Chairman
02. Prof. J. Ramkumar, Professor, Dept. of Mech. Engg., IIT, Kanpur	Member
03. Prof. Onkar Singh, Professor, Dept. of Mechanical Engg.	Member
04. Prof. Rajive Gupta, Professor, Dept. of Mechanical Engg.	Member
05. Prof. S.K. Singhal, Professor, Dept. of Mechanical Engg'.	Member
06. Sh. J. Bhaskar, Assoc. Prof., Dept. of Mechanical Engg.	Member
07. Dr. S.K.S. Yadav, Asstt. Prof., Dept. of Mechanical Engg.	Member
08. Dr. V.P. Singh, Asstt. Prof., Dept. of Mechanical Engg.	Member
09. Sh. R.K. Ambikesh, Asstt. Prof., Dept. of Mechanical Engg.	Member

Minutes of the meeting are as under:

Head of Department welcomed all the members in the Meeting of Board of Studies and presented the background of discussion regarding Course Curriculum and Evaluation Scheme for B.Tech. and M.Tech. programmes held in the 1st BOS (28th March, 2018). Later, a few suggestions were made by the Academic Council in its meeting held on April 4, 2018. The total credits workload was increased from 160 credits to 172 credits in all B.Tech. programmes running in the University. Academic Council also suggested inclusion of a few MOOC courses in lieu of Elective courses at UG and PG levels. The above suggestions were in line with the Model Course Curriculum suggested by AICTE. The modified Course Structure and Syllabus with Course Objectives and Outcomes is being presented for deliberation and its approval in this meeting.

1. Approval of Course Curriculum and Evaluation Scheme of B.Tech. programme in Mechanical Engineering.

Committee deliberated on the syllabus as proposed by the Department in the light of University policy. Committee members suggested to add a few more elective subjects and the same has been incorporated. Semester wise Course Structure and Evaluation Scheme with detailed syllabus for **B.Tech. in Mechanical Engineering** as approved by BOS is enclosed.

2. Approval of Course Curriculum and Evaluation Scheme of M.Tech. programmes:


- | | |
|-----------------------------------|--------------|
| a. Computer Aided Design | (Full time). |
| b. Mechanical Engineering Design | (Part time). |
| c. Industrial Systems Engineering | (Part time). |





Committee deliberated on the revised syllabus as proposed by the Department in the light of University policy and approved the same. Semester wise Course Structure and Evaluation Scheme with detailed syllabus for (a) M.Tech. in Computer Aided Design (Full time), (b) M.Tech. in Mechanical Engineering Design (Part time) and (c) M.Tech. in Industrial Systems Engineering (Part time) as approved by BOS is enclosed.

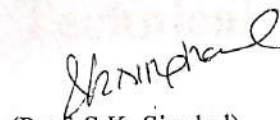
3. **Approval of list of External Examiners for M.Tech. Thesis evaluation.**
Committee deliberated on the list of External Examiners for M.Tech. Thesis evaluation. A few more names were added and few were deleted as suggested by the Committee. Approved list is enclosed.
4. **Approval of the list of External Examiners for B.Tech. Practical Examinations.**
Committee deliberated on the list of External Examiners for B.Tech. Practical Examinations. A few more names were added and few were deleted as suggested by the Committee. Approved list is enclosed.
5. **Approval of the MOOC courses which can be offered in lieu of Elective courses running in B.Tech. and M.Tech. / Ph.D. programmes.**
Committee agreed in principle to permit offering of courses through MOOC in lieu of a few Programme Elective / Open Elective courses running in B.Tech. and M.Tech. / Ph.D. programmes provided they are not being offered by the Department. Only 8 week / 12 week courses will be considered and the content of the course will be verified at the competent level before grant of permission for said MOOC courses.
6. Meeting ended with thanks to the chair.


(Dr. S.K.S. Vadav)
Member

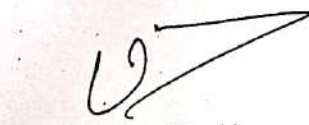

(Sh. R.K. Ambikesh)
Member


(Dr. V.P. Singh)
Member

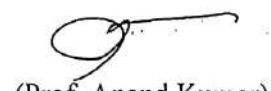

(Sh. J. Bhaskar)
Member


(Prof. S.K. Singhal)
Member


(Prof. Rajive Gupta)
Member


(Prof. Onkar Singh)
Member


(Prof. J. Ramkumar)
Member


(Prof. Anand Kumar)
Chairman

Course Curriculum and Detailed Syllabi

For

B. Tech. Mechanical Engineering

Effective for

Students admitted in the

Academic Session 2017-18 onwards

Department of Mechanical Engineering

School of Engineering

Harcourt Butler Technical University, Kanpur

Kanpur-208002

(Approved in the Meeting of the Board of Studies dated 22/09/2018)

