Fifth Board of Studies Meeting
Department of Mechanical Engineering
HBTU Kanpur

Following members attended the Meeting of Board of Studies held on **July 06, 2023 at 3:00 pm** in the Committee Room of Department of Mechanical Engineering.

Sl.No.	Name of Faculty		Signature
1	Prof. Anand Kumar, Prof. & Head	Chairman	
2	Prof. J. Ramkumar, Dept. of Mech. Engg., IIT, Kanpur	External Member	Online
3	Prof. Kantesh Balani, Dept. of Mech. Engg., IIT, Kanpur	External Member	Online
4	Prof. Rakesh Kumar Gautam, Dept. of Mech. Engg., IIT, BHU	External Member	Online
5	Er. S.B. Yadaw, Addl. Director, DMSRDE, Kanpur	External Member	
6	Dr. Rajeev Kumar, Dept. of Mech. Engg., IIT, Mandi (HP)	External Member	-
7	Prof. S.K. Singhal, Professor	Member	6/7/23
8	Prof. J. Bhaskar, Professor	Member	
9	Prof. Rajesh Kumar Verma, Professor	Member	
10	Dr. V.P. Singh, Assoc. Prof.	Member	
11	Dr. S.K.S. Yadav, Assoc. Prof.	Member	
12	Sh. R.K. Ambikesh, Assoc. Prof.	Member	
13	Dr. Nishant Kumar Singh, Assoc. Prof.	Member	
14	Dr. Virendra Kumar, Asstt. Prof.	Member	
15	Dr. Rishi Kant, Asstt. Prof.	Member	06/07/2023.
16	Dr. Gaurav Saini, Asstt. Prof.	Member	06/07/23
17	Sh. Mayank Shekhar, Guest Faculty	Member	Mayank.

Minutes of the Fifth Board of Studies meeting of Department of Mechanical Engineering held on July 6, 2023 at 3:00 pm in the Committee Room of the Department.

Following were present:

1.	Prof. Anand Kumar, Prof. & Head	Chairman
2.	Prof. J. Ramkumar, Dept. of Mech. Engg., IIT, Kanpur	Member
3.	Prof. Kantesh Balani, Dept. of Mech. Engg., IIT, Kanpur	Member
4.	Prof. Rakesh Kumar Gautam, Dept. of Mech. Engg., IT-BHU	Member
5.	Er. S.B. Yadaw, Scientist-G, DMSRDE, Kanpur	Member
6.	Prof. S.K. Singhal	Member
7.	Prof. J.Bhaskar	Member
8.	Prof. Rajesh Kumar Verma	Member
9.	Dr. V.P. Singh, Associate Professor	Member
10.	Dr. S.K.S. Yadav, Associate Professor	Member
11.	Sh. R.K. Ambikesh, Associate Professor	Member
12.	Dr. Nishant Kumar Singh, Associate Professor	Member
13.	Dr. Virendra Kumar, Asstt. Professor	Member
14.	Dr. Rishi Kant, Asstt. Professor	Member
15.	Dr. Gaurav Saini, Asstt. Professor	Member
16.	Sh. Mayank Shekhar, Guest Faculty	Member

Prof. J. Ramkumar and Prof. Kantesh Balani of IIT Kanpur and Prof. Rakesh Kumar Gautam of IT-BHU joined the meeting online.

Following members could not attend the meeting

1 Prof. Rajeev Kumar, Dept. of Mech. Engg., IIT, Mandi

Meeting started with Head of the Department greeting and welcoming all the esteemed members of the Board of Studies, especially the external members for sparing their valuable time and energy. It was followed by agenda wise discussion.

Followings were the agenda points for the meeting:

Agenda 1: **To discuss and approve B.Tech. Mechanical Engineering Course Structure & Evaluation Scheme and its detailed Course Syllabi.**

Agenda 2: **To discuss and approve M.Tech. Computer Aided Design Course Structure & Evaluation Scheme and its detailed Course Syllabi.**

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Head of the Department briefed the members about the implementation of NEP-2020 with effect from Academic Session 2022-23 for all the B.Tech. programmes of the University and framing a uniform semester wise course structure of 180 credits spread across 8 semesters for the sake of uniformity. Further, University decided to implement NEP-2020 in all the M.Tech. programmes of the University from coming Academic Session 2023-24. A uniform 64 credits M.Tech. programme spread of 4 semesters of 16 credit each has been finalized. The University has also decided to introduce Industrial Training of 4 - 6 weeks in all the M.Tech. programmes.

Followings were resolved after due deliberations:

1. Members discussed semester wise courses and approved the Course Structure & Evaluation Scheme for B.Tech. programme. (Annexure A)
2. A basket of 5-6 courses each for 5 Programme Elective Courses representing different streams of Mechanical Engineering were finalized so that students may choose PECs as per their area of interest.
3. Members also finalized the list of 3 Open Elective Courses to be offered by Department to the students of other B.Tech. programmes.
4. It was decided that students opting for B.Tech. (Honours) degree in Mechanical Engineering may do so by opting 20 additional credits from the list of PEC courses. (Annexure B).
5. Members finalized a basket of courses which may be offered to students of other B.Tech. programmes as Minor Courses. Earning 20 credits from this list will entitle student of other Departments to get a Minor Degree in Mechanical Engineering. (Annexure C)
6. Members were principally in agreement to the proposed detailed course syllabi for various courses of B.Tech. Mechanical Engineering and sought some more time to comment and suggest improvements. All the members agreed to send their comments within two days so that they may duly be incorporated. (Annexure D).
7. External members were of the opinion that the courses namely - Numerical Methods & Computer Programming and Optimization Methods for Engineers should be

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brought as Programme Core Courses in place of proposed Programme Elective Courses in M.Tech. CAD programme. They were also of the opinion that courses such as Design of Experiment, Soft Computing and aspects of Machine Learning and Artificial intelligence should be included in M.Tech. CAD programme for the benefit of the students. (Annexure E).

The meeting ended with thanks to the chair.

(Prof. J.Ramkumar)	(Prof. K.Balani)	(Prof. Rakesh Kr Gautam)
(Er. S.B. Yadaw) Member	(Dr. Gaurav Saini) Member	(Dr. Virendra Kumar) Member
(Dr. Rishi Kant) Member	(Dr. Nishant Kr Singh) Member	(Dr. S.K.S. Yadav) Member
(Dr. V.P.Singh) Member	(Prof. Rajesh Kr Verma) Member	(Prof. Jitendra Bhaskar) Member
(Sh. R.K. Ambikesh) Member	(Prof. S.K. Singhal) Member	(Prof. Anand Kumar) Chairman

Department of Mechanical Engineering
H.B.T.U., Kanpur

Ref No: 744/MED/Ext/2024
Date: 09/11/2024

Dean of Academic Affairs
HBTU, Kanpur

Sub: Constitution of new BoS.

Kindly take reference of your letter no. 990/Academic/BoS/2024-25 dated 07.11.2024. Kindly find the proposed list of External Experts to be nominated by the Academic Councill and Hon'ble Vice Chancellor, respectively.

Submitted for necessary action at your end.

9.11.2024

(Prof. Anand Kumar)
Head
Mechanical Engg Department

Two experts in the subjects from outside the University to be nominated by the Academic Council:

1.	Dr. J. Ram Kumar, Professor, Dept. of Mech. Engg. IIT Kanpur	jrkumar@iitk.ac.in	9451220918
2.	Dr. Kamal K. Kar, Professor, Dept. of Mech. Engg, IIT Kanpur	prof.kamalkkar@gmail.com	9415081153
3.	Dr. Neeraj Sinha, Professor, Dept. of Mech. Engg, IIT Kanpur	nsinha@iitk.ac.in	0512-259-7196
4.	Dr. D.S Murthy, Professor, Dept. of Mech. Engg, G.B Pant University, Pantnagar	dsmurthy.me@gbpuat-tech.ac.in	9411324816

One expert to be nominated by the Vice Chancellor from a panel of six recommended by the Department:

1.	Dr. Kantesh Balani, Professor, Dept. of Mech. Engg, IIT Kanpur	kbalani@iitk.ac.in	-
2.	Dr. PC Gope, Professor, Dept. of Mech. Engg, G.B Pant University, Pantnagar	prakashchandragope.me@gbpuat-tech.ac.in	8279715623
3.	Dr. Vinod Yadav, Professor, Dept. of Mech. Engg, MNNIT, Prayagraj	vinod@mnit.ac.in	+91-532-2271506
4.	Dr. Abhishek Kumar, Professor, Dept. of Mech. Engg, MNNIT, Prayagraj	abhishek@mnnit.ac.in	9415364799
5.	Dr. Inderdeep Singh, Professor, Dept. of Mech. Engg, IIT Roorkee	Inderdeep.singh@me.iitr.ac.in	91-1332-285614
6.	Dr. Sanjay Agarwal, Professor, Dept. of Mech. Engg, BIET, Jhansi	sanjay@bietjhs.ac.in	9450504743