




### Minutes of Meeting

An online meeting of the Board of Studies of Mechanical Engineering was held on 30-10-2021 at 02:30 PM. The meeting was attended by the following members:

- |                                       |  |
|---------------------------------------|--|
| 1. Chairman, BOS<br>Present           | Prof. T. V. Arjunan<br>Head, Dept. of Mechanical Engg.   |
| 2. Member, Academic Expert<br>Present | Prof. S. Murugan<br>Dept. of Mechanical Engg., NIT Rourkela  |
| 3. Member, BOS<br>Present             | Dr. Pankaj Kumar Gupta<br>Assoc. Prof., Dept. of Mech. Engg.   |
| 4. Member, BOS<br>Present             | Mrs. Shweta Singh<br>Asst. Prof., Dept. of Mech. Engg.   |
| 5. Member, Industry Expert<br>Present | Mr. Vivek Singh,<br>Executive Engineer, Damodar Valley<br>Corporation<br>Kodarma Thermal Power Station,<br>Jharkhand |

The scheme and course syllabi for M.Tech. (Machine Design) was discussed. With the consent of all the members, the course scheme and syllabi for M.Tech. (Machine Design) was finalized under guidelines in AICTE Model curriculum (2018), and new courses were added/modified in the list of electives. The following were the salient features discussed in the meeting:

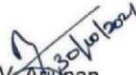
1. Computer Aided Design course was suggested to be renamed as Advanced CAD with advanced topics included, such as introduction to Finite Element analysis.
2. The course content for Tribology now includes topics pertaining to Surface Engineering, and therefore, the course is renamed to Tribology and Surface Engineering.
3. A topic on Experimental uncertainty analysis was added in the course on Design and Analysis of Experiments.
4. New courses on Design of Thermal Systems, Computational Fluid Dynamics and Noise, Vibration & Harshness were added in department electives due to their increasing role in Design involving multi-physics phenomena.
5. A course on Research methodology & IPR is included.

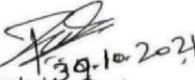
  
विभागाध्यक्ष / Head  
यांत्रिकी अभियांत्रिकी विभाग / Mechanical Engg. De  
प्रौद्योगिकी संस्थान / Institute of Technology  
गुरु घासीदास वि.वि. / Guru Ghasidas V.V.  
कोनी, बिलासपुर (छ.ग.) / Koni, Bilaspur (C.G.)




These changes shall be effective from Academic session 2021-2022.

The detailed Scheme of Credits and Syllabi of M.Tech. (Machine Design) courses is attached herewith for reference.

  
Prof. T. V. Anjan  
Chairman, BOS

  
Dr. Pankaj K. Gupta  
Member, BOS


  
Mrs. Shweta Singh  
Member, BOS

  
Dr. S. Murugan  
Professor  
Department of Mechanical Engineering  
NIT, Rourkela

Prof. S. Murugan  
Academic Expert

Email Consent Given

Mr. Vivek Singh  
Industry Expert

  
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**SCHOOL OF STUDIES OF ENGINEERING & TECHNOLOGY**  
**GURU GHASIDAS VISHWAVIDYALAYA(A CENTRAL UNIVERSITY)**  
**CBCS-NEW, STUDY & EVALUATION SCHEME**  
**PROPOSED W.E.F. SESSION 2021-2022**  
**M.Tech. I Year (SEMESTER I)**

SN	Course No.	SUBJECT	PERIODS			EVALUATION SCHEME			CREDIT S
			L	T	P	IA	ESE	SUB-TOTAL	
1.	MEPATT1	Advanced Mechanics of Solids	3	-	-	40	60	100	3
2.	MEPATT2	Advanced Computer Aided Design	3	-	-	40	60	100	3
3.		Professional Elective-1	3	-	-	40	60	100	3
4.		Professional Elective-2	3	-	-	40	60	100	3
5.		Professional Elective-3	3	-	-	40	60	100	3
6.	IPPATC1	Research Methodology & IPR	2	-	-	-	50	50	2
<b>Total</b>			<b>17</b>	<b>-</b>	<b>-</b>	<b>240</b>	<b>360</b>	<b>600</b>	<b>17</b>
<b>PRACTICALS</b>									
1.	MEPAT1	Numerical Simulation Lab	1	-	2	30	20	50	2
<b>Total</b>			<b>1</b>	<b>-</b>	<b>2</b>	<b>30</b>	<b>20</b>	<b>50</b>	<b>2</b>
<b>GRAND TOTAL</b>			<b>18</b>	<b>-</b>	<b>2</b>	<b>270</b>	<b>380</b>	<b>650</b>	<b>19</b>

Total Credits : **19**  
Total Contact Hour : **20**  
Total Marks : **650**

\*INTERNAL ASSESSMENT- Two Class Test of 15 Marks and Assignments, Attendance etc. of 10 Marks.  
L-LECTURE, T-TUTORIAL, P-PRACTICAL, ESE –END SEMESTER EXAMINATION

Professional Elective-1	Professional Elective-2	Professional Elective-3
MEPATP1-Mechanics of Composite Materials	MEPATP2-Advanced Engineering Materials	MEPATP3-Mechanical Vibrations
MEPATP4-Design of Thermal Systems	MEPATP5-Design and Analysis of Experiments	MEPATP6-Advanced Mechanical Design
MEPATP7-Tribology and Surface Engineering	MEPATP8-Design for Manufacturing & Assembly	MEPATP9-Advanced Synthesis of Mechanisms



**M.Tech. III-Semester**

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	MEPCPT1	Dissertation Stage-I	0	0	28	100	100	200	14
Total			0	0	28	100	100	200	14

**M.Tech. IV-Semester**

Sl.	Course Type/ Code	Subjects	Periods/Week			Evaluation			Credits
			L	T	P	IA	ESE	Total	
1.	MEPDPT1	Dissertation Stage-II	0	0	32	200	100	300	16
Total			0	0	32	200	100	300	16

**Total Credits for the Program = 19 + 21 +14 +16 = 70**

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**Details of Students who have done dissertation in M.Tech. (Mechanical Engineering):**

S.No.	Students Name	Enrollment No.
1	Adarsh Kamal	GGV/20/01601
2	Himanshu jaiswal	GGV/20/01603
3	Pritish chan bareth	GGV/20/01608
4	Pushpendra Prataap Singh	GGV/20/01609
5	Tejasvi kumar kashyap	GGV/20/01614
6	Ashutosh Sharma	GGV/20/01602
7	Hupesh patel	GGV/20/01604
8	Khileshwar sahu	GGV/20/01605
9	Mohammad Aarish Amen	GGV/20/01606
10	Pranav Gupte	GGV/20/01607
11	Ravishankar Mishra	GGV/20/01610
12	Rizawan Khan	GGV/20/01611
13	Saurabh Mishra	GGV/20/01612
14	Subhijeet Mukherjee	GGV/20/01613

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