



SHRI MATA VAISHNO DEVI UNIVERSITY
School of Mechanical Engineering
Kakryal, Katra-182320, Jammu & Kashmir

Ref. No.: SMVDU/SoME/25/1585

Minutes of Meeting of Board of Studies held on 20-02-2025

The meeting of Board of Studies of School of Mechanical Engineering was held on 20-02-2025 at 3:00 PM in the Conference Room of SoME.

The External Experts Dr. Shiva S, Associate Professor, Department of Mechanical Engineering, IIT, Jammu and Mr. Mohinder Mohan Arya, CAD-Coordinator, Tosiba JSW Pvt. System Ltd, Gurgaon were present in the

1.	Dr. Yatheshth Anand, Head, School of Mechanical Engineering	Chairman
2.	Prof. (Dr.) Eswarmoorthy Muthusamy	Member
3.	Prof. (Dr.) Raghvendra Kumar Mishra	Member
4.	Prof. (Dr.) Balbir Singh	Member
5.	Prof. (Dr.) Ankush Anand	Member
6.	Dr. Sanjay Mohan	Member
7.	Dr. Sanjay Sharma	Member
8.	Dr. Varun Dutta	Member
9.	Dr. Mir Irfan Ul Haq	Member
10.	Dr. Amit Kumar Sinha	Member
11.	Dr. Ankush Raina	Member
12.	Dr. Pradeep Singh	Member
13.	Dr. Rajiv Kumar	Member Secretary

ONLINE mode. The following internal members were physically present in the meeting:



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The following agenda item was discussed:

Agenda 1: Proposal to initiate new course “B.Tech. in Mechtronics” with proposed intake of 30 students

Proposal to initiate new interdisciplinary UG course in “B.Tech. in Mechtronics” by School of Mechanical Engineering in collaboration with School of Computer Science Engineering, School of Electronics & Communication Engineering and School of Electrical Engineering. The proposed course structure for B.Tech. in Mechatronics aligned with the Model curriculum of the AICTE and NEP Policy implemented in the University. The various subjects added in the course structure are from different schools including School of Mechanical Engineering, School of Computer Science Engineering, School of Electronics & Communication Engineering and School of Electrical Engineering. The subjects mentioned in the proposed course structure are already approved with their course contents in their respective AAC of the different schools.

Eligibility Criteria as specified/laid down by the University for seeking admission in B.Tech. Program:

- a) Candidate applying for admission to B. Tech. program through JOSAA/CSAB 2025 must satisfy the eligibility criteria as per JOSAA/CSAB 2025 guidelines.
- b) Candidates applying for admission to B.Tech. program through SMVDU Direct Counselling based on JEE(Main) 2025 Rank (CRL). However, the minimum aggregate percentage obtained at 10+2 must be at-least 60% (or equivalent CGPA).
- c) Candidates appearing in the qualifying examination (10+2 or equivalent) can also apply subject to condition mentioned in (b) above

The details of the proposed course structure for **B.Tech. in Mechatronics** is enclosed as Annexure-A

During the meeting Dr. Shiva S. and Mr. Mohinder Mohan Arya also suggested addition of the subjects ‘Precision Engineering’ and ‘Smart Manufacturing’ as elective subjects.

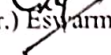
The meeting ended with a vote of thanks by the Member Secretary.

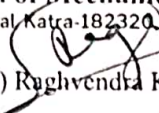



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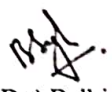
School of Mechanical Engineering

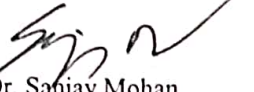
Kakryal, Katra-182320 Jammu & Kashmir

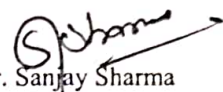

Prof. (Dr.) Eswar moorthy Muthusamy
Member

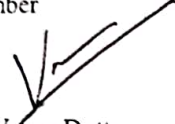

Prof. (Dr.) Raghvendra Kumar Mishra
Member

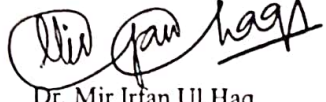

Prof. (Dr.) Ankush Anand
Member

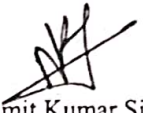

Prof. (Dr.) Balbir Singh
Member



Dr. Sanjay Mohan
Member



Dr. Sanjay Sharma
Member



Dr. Varun Dutta
Member

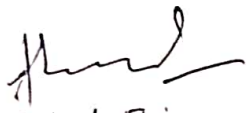

Dr. Mir Irfan Ul Haq
Member



Dr. Amit Kumar Sinha
Member

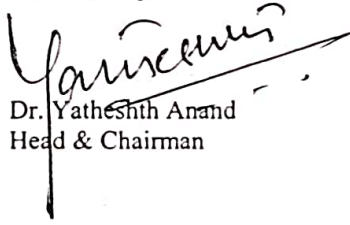

Dr. Pardeep Kumar Singh
Member


Dr. Shiva S.
External Expert


Mr. Mohinder Mohan Arya
External Expert


Dr. Ankush Raina
Member


Dr. Rajiv Kumar
Member Secretary


Dr. Yatheshth Anand
Head & Chairman



School of Mechatronics
Program Structure of B. Tech. Four Year Full Time Degree
(Entry Batch 2024-28 Onwards)

1 st Semester							2 nd Semester										
Sl. No.	AICTE CODE	Course Code	Course Title	L	T	S/P	C	Sl. No.	AICTE Code	Course Code	Course Title	L	T	S/P	C		
1.		MTL BS101	Engineering Mathematics-I	3	1	0	4	1		MTL BS102	Engineering Mathematics-II	3	1	0	4		
2		ECL ES101	Basic Electronics	3	0	0	3	2		MEL DC104	Materials Science and Engineering	3	0	0	3		
3		ECP ES101	Basic Electronics Lab	0	0	2	1	3		EEL DC102	Electrical Measurements & Instrumentation	3	0	0	3		
4		PHL BS101	Engineering Physics	3	0	0	3	4		EEP DC102	Electrical Measurements & Instrumentation Lab	0	0	2	1		
5		PHP BS101	Engineering Physics Lab	0	0	2	1	5		CSL DC102	Programming using Python	2	0	0	2		
6		EEL100 6	Fundamentals of Electrical Engineering	3	0	0	3	6		CSP DC102	Python Programming Lab	0	0	2	1		
7		MEM SE101	Engineering Workshop	1	0	2	2	7		MEL DC102	Basic Concepts of Mechatronics	3	0	0	3		
8		EEP100 6	Fundamentals of Electrical Engineering Lab	0	0	2	1	8		MEP DC102	Basic Mechatronics Lab	0	0	2	1		
9			AEC1/VAC1	1	0	2	2	9		PCN MA102	Universal Human Value-II				NC		
Total Credits							20	Total Credits							22		
Total Credits earned after first year								Total Credits									42

AEC1/VAC1

MEM SE103	Engineering Graphics with CAD	1	0	2	2
	Fundamentals of C Programming	1	0	2	2

AEC2

9.	CSL DE311	Digital Image Processing	3-0-2	4
10.	CSL DE323	Computer Network Security	3-0-2	4
11.	CSL DE315	Cloud Computing	3-1-0	4
12.	CSL DE405	Cyber Security	3-1-0	4
13.	CSL GE303	Computer Network & Communication	3-0-2	4
14.		Additive Manufacturing	3-0-2	4
15.	CSL GE402	Artificial Intelligence for Engineering Applications	3-1-0	4
16.	MEIDE	Precision Engineering	3-1-0	4
17.	MEIDE	Smart manufacturing	3-1-0	4

