Structure for B.Tech. (Hons.) in Mechatronics and Robotics

AY 2024-25

Department of Mechanical Engineering,
Tezpur University

B.Tech. (Hons.) in Mechatronics and Robotics

To keep up with the NEP-2020 and the demand from the industry, the department has proposed to offer a B.Tech. (Hons.) in the specialization of Mechatronics and Robotics. In relation to that, the courses comprising an additional 18 credits will be offered from the fifth semester onward. Table 1 presents the structure for the proposed B.Tech. with Hons. in Mechatronics and Robotics. A student who is interested in obtaining his/her B.Tech. degree with Hons. in the specialization of Mechatronics and Robotics must complete 18 credits, apart from the regular 160 credit requirements for the B.Tech. degree. In addition, the proposed degree will be offered under the overall policy of the university/school of engineering concerning B.Tech. with Hons. degree.

Table 1: Structure for B.Tech. (Hons.) in Mechatronics and Robotics

SN	Code	Course	L	T	P	CR	CH	SEM
1	MEXXXX	Control for Robotics and Mechatronics Systems	3	0	0	3	3	5
2	MEXXXX	Embedded Systems for Robotics and Mechantronics	3	0	0	3	3	6
3	MEXXXX	Artificial Intelligence in Robotics	3	0	0	3	3	7
4	MEXXXX	Mechatronics Lab	0	0	3	3	6	7
5	MEXXXX	Advanced Robotics	3	0	0	3	3	8
6	MEXXXX	Robotics Project	0	0	3	3	6	8
		Total				18		

Semester-wise distribution of courses for B.Tech. (Honours)

Sem	Code	Course	CR	CR_{sem}
I	All Courses	same as B.Tech.	20	**20**
II	All Courses	same as B.Tech.	23	**23**
III	All Courses	same as B.Tech.	22	**22**
IV	All Courses	same as B.Tech.	22	**22**
V	All Courses	same as B.Tech.	21	**24**
	MEBTXXX	Control for Robotics and Mechatronics Systems	3	
VI	All Courses	same as B.Tech.	19	**22**
	MEBTXXX	Embedded Systems for Robotics and Mechantronics	3	
VII	All Courses	same as B.Tech.	19	**25**
	MEBTXXX	Artificial Intelligence in Robotics	3	
	MEBTXXX	Mechatronics Lab	3	
VIII	All Courses	same as B.Tech.	14	**20**
	MEBTXXX	Advanced Robotics	3	
	MEBTXXX	Robotics Project	3	

Industry internship: Same as B.Tech. degree.