

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur
(An Autonomous Institute Affiliated to Rajasthan Technical University, Kota)

Teaching and Examination Scheme (For Students Admitted in A.Y. 2025-26 & onwards)

B.Tech.-Minor Degree in Robotics

Sr. No.	YEAR	SEM.	Course Code	Course Name	Teaching Scheme					Exam Hrs.	Marks			Credit
					Classroom Instruction (CI) (in hours per semester)		Lab Instruction (LI) (in hours per semester)	Term Work (TW) and Self Learning (SL) (TW+ SL) (in hours per semester)	Total no. of Hours per semester		CIE	SEE	Total	
					L	T	P	SL						
1	2	III	MEUL305	Introduction to Robotics	45	0	0	45	90	3	40	60	100	3
2	2	IV	MEUL406	Mechanics of Robots	45	0	0	45	90	3	40	60	100	3
3	3	V	MEUL505	Mechatronic Systems	45	0	0	45	90	3	40	60	100	3
4	3	VI	MEUP625	Robotics Lab	0	0	30	-	30	3	60	40	100	1
5	4	VII	MEUD751	Project	15	0	90	15	120	3	60	40	100	4
6		III to VII		NPTEL/MOOCs (As per Annexure-1)										6
										Total Credit			20	

Annexure-1				
List of NPTEL courses				
Group-1				
S.No.	Name of Course	Offering Institute/University	Duration (we)	Credit
1.	Robotics: Basics and Selected Advanced Concepts	Ahmedabad University	12	3
2.	Robotics	IIT Kharagpur	8	2
3.	Mechanics and Control of Robotic Manipulators	IIT Palakkad	8	2
Group-2				
S.No.	Name of Course	Offering Institute/University	Duration (we)	Credit
1.	Industrial Robotics and Automation	NITTTR, Chennai	12	3
2.	Advanced Robotics Applications	IIT Kanpur	8	2
3.	Advanced Robotics	IIT Kanpur	12	3
4.	Experimental Robotics	IIT Kharagpur	4	1
Group-3				
S.No.	Name of Course	Offering Institute/University	Duration (we)	Credit
1.	Sensors and Actuators	IISc Bangalore	12	3
2.	Foundations of Cognitive Robotics	IIT Kanpur	4	1
3.	Collaborative Robots (COBOTS): Theory and Practice	IIT-ISM Dhanbad	8	2
4.	Intelligent Control of Robotic Systems	IIT Roorkee	4	1

Note: It should be noted that a student can take only ONE course from a particular group to complete a total of 6 credits under MOOCs.