



**JSPM's**  
**RAJARSHI SHAHU COLLEGE OF ENGINEERING**  
**TATHAWADE, PUNE-33**  
(An Autonomous Institute Affiliated to Savitribai Phule Pune  
University,Pune)



**Structure and Syllabus**  
**for**  
**B.Tech. Mechanical Engineering**  
**with**  
**Honors in “Robotics &Automation”**

**w.e.f. Academic Year 2021-2022**  
**(2019 Pattern)**

**Submitted to**  
**Savitribai Phule Pune University, Pune**

**Forwarded with approval from**  
**Board of Studies Mechanical Engineering,**  
**Academic Council, JSPM's Rajarshi Shahu College of Engineering, Pune.**



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**Board of Studies (Mechanical Engineering)**  
**(Honor Course)**

**Honors\* in Robotics & Automation**

Course Code	Course	Teaching Scheme			Semester Examination Scheme of Marks						Credits	
		TH	TU	LAB	Theory			TW	LAB	TOTAL	TOTAL	
					ISE (15)	MSE (25)	ESE (60)					
Semester –V												
MEH3101	Robot Kinematics and Dynamics	4	0	0	15	25	60	0	0	100	4	
Semester –VI												
MEH3103	Robotics Drives and Control	3	0	2	15	25	60	0	25	125	4	
MEH3104	Instrumentation and Sensors	3	0	2	15	25	60	0	25	125	4	
Semester –VII OR VIII												
MEH4101	Electronic Devices and Circuits	4	0	0	15	25	60	0	0	100	4	
MEH4102	Artificial Intelligence for Robotics	4	0	0	15	25	60	0	0	100	4	
Total of Semester		18	0	4	75	125	300	0	50	550	20	

**Note:** The above courses shall be learned from the appointed course coordinator at the institute. The learning can be supplemented using the MOOC platforms like NPTEL/ COURSERA/ SWAYAM.

**Learning mode shall be declared by the department at the beginning of the semester.**

Dr. A. M. Badadhe

BOS Chairman (Mechanical)

Dr. Ram Joshi

Dean Academics

Dr. R. K. Jain

Director RSCOE, Pune

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