

JSPM's

RAJARSHI SHAHU COLLEGE OF ENGINEERING TATHAWADE, PUNE-33



(An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune)

Final Year B. Tech (Automation and Robotics) Academic Year – 2024-2025 Semester – VII

		Teaching Scheme			Sem	Credits					
Course Code	Course	ТН	TU	LAB	ISE (15)	Theory MSE (25)	ESE (60)	TW	LAB	TOTAL	TOTAL
IAR4I()I	Field and Service Robotics	3	0	2	15	25	60	-	25	125	4
AR4102	Augmented Reality and Virtual Reality for Robotics	3	0	2	15	25	60	-	25	125	4
AR4103	Elective –III	3	0	2	15	25	60	25	25	150	4
AR4104	Project Stage-I	0	0	12	-	-	-	100	100	200	6
Total of Semester-VII		9	0	18	45	75	180	125	175	600	18

Elective – III

Course Code	Course	Course Code	Course	Course Code	Course
AR4103A	Data Engineering forRobotics and Automation	AR4103B	Industry 4.0	AR4103C	AI andML for Robotics

Dr. A. M. Badadhe BOS Chairman (A & R)

ALUS.

Dr. Ram Joshi Dean Academics



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Final Year B. Tech (Automation and Robotics) Academic Year – 2024-2025 Semester – VIII TRACK - A - REGULAR

Course		Teaching Scheme			Se	Credits					
Code	Course	ТН	TU	LAB	ISE (15)	Theory MSE (25)	ESE (60)	TW	LAB	TOTAL	TOTAL
AR4105	Mobile Robotics	3	0	0	15	25	60	1	-	100	3
$\Delta R/LIO6$	Advance Robotics Applications	3	0	0	15	25	60	-	-	100	3
AR4107	Elective –IV	3	0	2	15	25	60	25	25	150	4
AR4108	Project Stage-II	0	0	16	1	-	1	150	100	250	8
Total of Semester-VIII		9	0	18	45	75	180	175	125	600	18

Course Code	Course	Course Code	Course	Course Code	Course
AR4107A	Cyber Security	AR4107B	Design of Mechatronics System	AR4107C	Micro-Electro Mechanical systems (MEMS)

Final Year B. Tech (Automation and Robotics)

Academic Year – 2024-2025 Semester – VIII TRACK- B - FULL SEMSTER INTERNSHIP

Comman		Teaching Scheme			Se	Credits					
Course Code	Course					Theory					
Code	Course	TH	TU	LAB	ISE	MSE	ESE	TW	LAB	TOTAL	TOTAL
					(15)	(25)	(60)	1 **	Lixb	TOTAL	TOTAL
AR4109	Industrial Internship/ Research Internship	0	0	20	-	1	1	200	150	350	10
AR4108	Project Stage- II	1	1	16	-	-	-	150	100	250	8
Total of Semester-VIII		0	0	36	0	0	0	0	350	250	600

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Final Year B. Tech (Automation and Robotics) Academic Year – 2024-2025 Semester – VIII TRACK - C - HIGHER STUDIES AND RESEARCH

Course		Teaching Scheme			Sei	Credits					
Code	Course	ТН	TU	LAB	ISE (15)	Theory MSE (25)	ESE (60)	TW	LAB	TOTAL	TOTAL
I ARAII()	Research Methodology	3	0	2	15	25	60	25	25	150	4
AR4111	Innovation and Design thinking for Robotics and Automation	3	0	0	15	25	60	1	1	100	3
I ARAII/	Product Life Cycle Management	3	0	0	15	25	60	1	1	100	3
AR4108	Project Stage-II	0	0	16	1	1	1	150	100	250	8
Total of Semester-VIII		9	0	18	45	75	180	175	125	600	18

Dr. A. M. Badadhe

BOS Chairman (A & R)

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Final Year B. Tech (Automation and Robotics) Academic Year – 2024-2025 Semester – VIII TRACK - D - Entrepreneurship

Course		Teaching Scheme			Se	of Marks	Credits				
Code	Course	ТН	TU	LAB	ISE (15)	Theory MSE (25)	ESE (60)	TW	LAB	TOTAL	TOTAL
AR4113	Economics and Finance Management	3	0	0	15	25	60	-	-	100	3
AR4114	Industrial Management & Operations Research	3	0	0	15	25	60	-	-	100	3
AR4115	Entrepreneurship Development for Robotics and Automation	3	0	2	15	25	60	25	25	150	4
AR4108	Project Stage-II	0	0	16	-	-	-	150	100	250	8
Total of Semester-VIII		9	0	18	45	75	180	175	125	600	18

Dr. A. M. Badadhe BOS Chairman (A & R)

Dr. Ram Joshi Dean Academics