

SEMESTER – I

Course Code	Course Name	Course	Hours per week			Credit(s)	Total Marks
		Туре		L T P		010010(5)	
HSMC-MIRA101	Research Methodology and IPR	HSMC	3	0	0	3	100
PCC-MIRA101	Fundamental of Robotics: Robot Installation and Economics	PC	3	0	0	3	100
PCC-MIRA102	Advanced Control System in Robotics	PC	3	0	0	3	100
PEC-MIRA101	Programme Elective I:A. Artificial Intelligence forRoboticsB. Embedded System Applicationfor Robotics	PE	3	0	0	3	100
PEC-MIRA102	Programme Elective II: A. Mobile and Medical Robotics B. Electronics in Robotic Technology	PE	3	0	0	3	100
PCC-MIRA191	Programming Laboratory for Robotics	PC	0	0	4	2	100
PCC-MIRA192	Robot Design Laboratory	PC	0	0	4	2	100
					19	700	
AU-MIRA1	AU-MIRA1 Constitution of India		2	0	0	0	0

Total Hours: 25



Course Code	Course Name	Course Type	Hours per week			Credit(s)	Total Marks
		туре	L	Т	Р		
PCC-MIRA201	Measurement and Sensor for Robotics	PC	3	0	0	3	100
PCC-MIRA202	Image Processing and Robotic Vision PC 3				0	3	100
PEC-MIRA201	Programme Elective III: A. Machine Learning in Robotics B. Product Design and Development	PE	3	0	0	3	100
OEC-MIRA201	Open Elective: A. Mechatronics System Design B. Industrial Internet of Things	OE	3	0	0	3	100
PCC-MIRA291	Robotics and Automation Laboratory	PC 0 0 4		2	100		
PROJ-MIRA281	ROJ-MIRA281Term paper leading to DissertationPR						
					17	600	
AU-MIRA2	Value Education	AU	2	0	0	0	0

SEMESTER – II

Total Hours: 18



Hours per Course Total **Course Code Course Name** week Credit(s) Marks Type L Т Р PCC-MIRA301 Industrial Automation PC 3 3 100 0 0 **Programme Elective IV:** A. Signal Processing in PEC-MIRA301 Mechatronic System 0 PE 3 0 3 100 B. Wireless Sensor Network in Automation **Programme Elective V:** A. Industry 4.0 PEC-MIRA302 PE 3 0 0 3 100 B. Micro and Nano Robotics C. Humanoid Robots Dissertation Phase – I PROJ-MIRA381 PR 10 100 -----TOTAL 19 400

SEMESTER – III

Total Hours: 09

SEMESTER – IV

Course Code	Course Name	Course Type	Hours per week L T P		Credit(s)	Total Marks
PROJ-MIRA481	1 Dissertation Phase – II PR				20	100
TOTAL						100

Total Credits: 75 Total Marks: 1800



Semester					Total Credit	Total Marks	Total Hours per	
	HSMC	PC	PE	OE	PR			week
Ι	3	10	6	0	0	19	700	25
II	0	8	3	3	3	17	600	18
III	0	3	6	0	10	19	400	9
IV					20	20	100	0
Total	3	21	15	3	33	75	1800	
Percentage	4.00%	28.00%	20.00%	4.00%	44.00%			