

SEMESTER – I

Course Code	Course Name	Course	Hours per week			Credit(s)	Total
		Type	L	T	P		Marks
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 for Robotics B. Embedded System Application for 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	Constitution of India	AU	2	0	0	0	0

Total Hours: 25



SEMESTER – II

		Course	Hours per			Credit(s)	Total Marks
Course Code	Course Name	Type	week				
		Турс	L	T	P		IVIAI KS
PCC-MIRA201	Measurement and Sensor for Robotics	PC	3	0	0	3	100
PCC-MIRA202	Image Processing and Robotic Vision	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	PROJ-MIRA281 Term paper leading to Dissertation PR						
TOTAL						17	600
AU-MIRA2	Value Education	AU	2	0	0	0	0

Total Hours: 18



SEMESTER - III

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

Total Hours: 09

SEMESTER – IV

Course Code	Course Name	Course Type	Hours pe week	er	Credit(s)	Total
			LT	P		Marks
PROJ-MIRA481	Dissertation Phase – II	PR		-	20	100
TOTAL						100

Total Credits: 75
Total Marks: 1800



Semester	Course Category				Total Credit	Total Marks	Total Hours per	
	HSMC	PC	PE	OE	PR			week
I	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%		1000	