

**Symbiosis Institute of Technology, Pune
Master of Technology (Robotics and Artificial Intelligence)
Provisional Programme Structure 2026-2028**

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme		Practical		Examination Scheme		Total Credits	Total	
				L	T	Lab	CA	ESE	CA			
Semester : 1												
Generic Core Courses												
TEE7233	0701550101	Applied Mathematics	BS	2	0	0	0	0	60	2	100	
TEE7035	0701550102	Research Methodology in Engineering	PC	2	0	0	0	0	100	2	100	
TEE7359	0701550103	Robotic Systems	PC	2	0	2	30	20	60	3	150	
TEE7349	0701550104	Embedded Systems and Applications	PC	2	0	2	30	20	60	3	150	
TEE7353	0701550105	Machine Learning and Deep Learning in Robotics	PC	2	0	2	30	20	60	3	150	
TEE7352	0701550106	IoT and Mechatronics	PC	2	0	2	30	20	60	3	150	
TEE7344	0701550107	Concepts of Programming	PC	0	0	4	60	40	0	2	100	
TE7594	0701550108	Additive Manufacturing Lab	PC	0	0	2	30	20	0	1	50	
TH4788		Health and Wellness Module I #	MC	0	0	0	0	0	0	0	0	
Total				12	0	14	210	140	400	19	950	
Generic Elective Course Group (Choose any one Course)												
TEE7343	0701550109	Computational Structures and Algorithms	PE	2	0	2	30	20	60	3	150	
TEE7360	0701550110	Signal Processing and Applications	PE	2	0	2	30	20	60	3	150	
TEE7338	0701550111	Advanced Hydraulics and Pneumatics	PE	2	0	2	30	20	60	3	150	
Total Required Credits								30	20	60	3	150
Semester : 2												
Generic Core Courses												
TEE7356	0701550201	Programmable and Supervisory Controllers	PC	2	0	2	30	20	60	3	150	
TEE7339	0701550202	Autonomous Systems	PC	2	0	2	30	20	60	3	150	
TEE7355	0701550203	Natural Language Processing for Robotics	PC	2	0	2	30	20	60	3	150	
TEE7354	0701550204	Machine Vision for Robotics	PC	2	0	2	30	20	60	3	150	
TEE7337	0701550205	Advanced Control Systems	PC	2	0	2	30	20	60	3	150	
THM6149	0701550206	Advanced Technical and Professional Communication Skills	PC	0	0	2	50	0	0	1	50	
TE7586	0701550207	Mechanisms and Robotics Lab	PC	0	0	2	30	20	0	1	50	
TE7569	0701550208	Modelling and Simulation Lab	PC	0	0	4	60	40	0	2	100	
TE7656	0701550209	Strategic Project Management	PC	2	0	0	0	0	100	2	100	
TH4789		Health and Wellness Module II #	MC	0	0	0	0	0	0	0	0	

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Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Practical		Examination Scheme Marks		Total Credits	Total
				L	T	Lab	CA	ESE	CA	ESE		
Total				12	0	18	290	160	400	200	21	1050
Generic Elective Course Group (Choose any one Course)												
TEE7358	0701550210	Reinforcement Learning for Robotics	PC	2	0	2	30	20	60	40	3	150
TEE7345	0701550211	Database Management System	PC	2	0	2	30	20	60	40	3	150
TEE7346	0701550212	Drone Technology	PC	2	0	2	30	20	60	40	3	150
Total Required Credits							30	20	60	40	3	150
Semester : 3												
Generic Core Courses												
T7710	0701550301	Dissertation Phase 1	PIS	0	0	20	300	200	0	0	10	500
F0004	0701550302	Flexi-Credit Course	PC	4	0	0	0	0	200	0	4	200
F0002	0701550303	Flexi-Credit Course	PC	2	0	0	0	0	100	0	2	100
SMC001	0701550304	Vasudhaiva Kutumbakam *	MC	0	0	0	0	0	0	0	Mandatory Non-Credit Course	0
SMC003	0701550305	Health and Wellness *	MC	0	0	0	0	0	0	0	Mandatory Non-Credit Course	0
Total				6	0	20	300	200	300	0	16	800
Semester : 4												
Generic Core Courses												
T7714	0701550401	Dissertation Phase 2	PIS	0	0	28	420	280	0	0	14	700
F0002	0701550402	Flexi-Credit Course	PC	2	0	0	0	0	100	0	2	100
TE7935	0701550403	Research Paper Writing	PC	2	0	0	0	0	100	0	2	100
Total				4	0	28	420	280	200	0	18	900

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Master of Technology (Robotics and Automation)
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Annexure A

Abbreviations (Nature)

BS	Basic Sciences
ES	Engineering Sciences
HS	Humanities and Social Sciences
OE	Open Electives
PC	Professional Core
PE	Professional Elective
PIS	Project, Internship, Seminar
PD	Professional Development Course
MC	Mandatory Course
L	Lecture
T	Tutorial
CA	Continuous Assessment
ESE	End Semester Examination
GE	Generic Elective

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