



**Symbiosis Institute of Technology, Pune**  
**M. Tech. (Robotics and Artificial Intelligence)**  
**Provisional Programme Structure 2026-28**

<b>1.</b>	<b>OBJECTIVE</b>	<p>M. Tech. (Robotics and Artificial Intelligence) is a full-time two-year post-graduation programme, which aims at transforming a student into a technically sound professional. This programme aims at providing the students with appropriate theoretical inputs along with adequate hands-on training. The programme includes hands-on experience on Robotics and Artificial Intelligence by theory &amp; practice, development of analytical skills, modelling and simulation skills to identify and analyse problems, propose, and execute solutions in well-equipped labs and training on latest equipment. The syllabus contains cross disciplinary courses such as artificial intelligence, machine learning, Internet of Things in addition to the domain specific professional courses. The mix of these courses has been evolved with an aim to produce professionals who have knowledge not only of Engineering but who are good managers to contribute in a cross-functional team and have human values.</p> <p>The emphasis is to develop all round personality that would enable the students to take up the challenges of the corporate world and become responsible citizens of the society.</p>			
<b>2.</b>	<b>DURATION (IN MONTHS)</b>	24 (Full Time)			
<b>3.</b>	<b>INTAKE</b>	18			
<b>4.</b>	<b>RESERVATION</b>	<b>I. Within the sanctioned intake</b>	<b>a) SC (In Percentage)</b>	<b>b) ST (In Percentage)</b>	<b>c) Differently abled (In Percentage)</b>
			15	7.5	3
		<b>II. Over and above the sanctioned intake</b>	<b>a) Kashmiri Migrants (In Seats)</b>	<b>b) International Students (In Percentage)</b>	
			2	20	
<b>5.</b>	<b>ELIGIBILITY</b>	<p>B.Tech./ B.E. in Mechanical /Electronics and Communication/ Computer Science/ Information Technology and other related disciplines with minimum four years duration from any recognized University/Institution of National Importance with a minimum of 50% marks or equivalent grade (45% Marks or equivalent grade for Scheduled Caste/Scheduled Tribes)</p>			
<b>6.</b>	<b>SELECTION PROCEDURE</b>	<p>Both GATE qualified and non-GATE candidates are eligible to take admission in M. Tech. (Robotics and Artificial Intelligence) Program, as per the following criteria:</p> <p>1. GATE Qualified candidates: Selection will be based on GATE Score</p> <p>2. Non-Gate Qualified candidates: An entrance examination will be conducted at SIT and selection will be based on the entrance examination score.</p>			
<b>7.</b>	<b>MEDIUM OF INSTRUCTION</b>	English			

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The Program Structure is under approval at SIU



8.	<b>PROGRAMME PATTERN</b>	Semester
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9.	<b>COURSE &amp; SPECIALIZATION</b>	As per Annexure A							
10.	<b>FEE</b>		<b>Academic Fee p.a</b>	<b>Institute Deposit</b>	<b>Total</b>				
	<b>Indian Students (Amount in INR)</b>		185000	20000	205000				
	<b>International Students</b>	<b>NRI/ PIO/ OCI Category (Amount in US\$)</b>	3650	275	3925				
		<b>Foreign National Category (Amount in US\$)</b>	1950	275	2225				
11.	<b>ASSESSMENT</b>	All internal courses will have 100% component as internal evaluation at the institute level. All external courses will have 60% internal component and 40% component as external [University] examination. The internal and external will be separate heads of passing.							
12.	<b>STANDARD OF PASSING</b>	The assessment of the student for each examination is done, based on relative performance. Maximum Grade Point (GP) is 10 corresponding to O (Outstanding). For all courses, a student is required to pass both internal and external examination separately with a minimum Grade Point of 4 corresponding to Grade P. Students securing less than 40% absolute marks in each head of passing will be declared FAIL. The University awards a degree to the student who has achieved a minimum CGPA of 4 out of maximum of 10 CGPA for the programme.							
13.	<b>AWARD OF DEGREE</b>	M. Tech. (Robotics and Artificial Intelligence) will be awarded at the end of semester IV examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.							
14.	<b>CLASSIFICATION OF CREDITS</b>								
	<b>Semester</b>	<b>Generic Core</b>	<b>Generic Elective</b>	<b>Specialization Core</b>	<b>Specialization Elective</b>	<b>Open Elective</b>	<b>Non-Letter Grade Mandatory Course/s</b>	<b>Non-Letter Grade Audit Course/s</b>	<b>Total</b>
	<b>Comm on</b>								
	1	17	3	0	0	0	1	As per the student's choice	20
	2	17	3	0	0	0	1		20
	3	20	0	0	0	0	0		20
	4	20	0	0	0	0	0		20
	<b>Total</b>	<b>74</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>80</b>

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The revised programme structure supersedes the previously approved programme structure dated 18/05/2023 for the programme.

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**M. Tech. (Robotics and Artificial Intelligence)**  
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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		
<b>Semester : 1</b>												
<b>Generic Core Courses</b>												
TEE7233	0701550101	Applied Mathematics	BS	2	0	0	0	0	60	40	2	100
TEE7359	0701550102	Robotic Systems	PC	2	0	2	30	20	100	0	3	150
TEE7349	0701550103	Embedded Systems and Applications	PC	2	0	2	30	20	100	0	3	150
TEE7353	0701550104	Machine Learning and Deep Learning in Robotics	PC	2	0	2	30	20	60	40	3	150
TEE7352	0701550105	IoT and Mechatronics	PC	2	0	2	30	20	60	40	3	150
TEE7344	0701550106	Concepts of Programming	PC	0	0	4	60	40	0	0	2	100
TH4788	0701550107	Health & Wellness Module - I	MC	0	0	0	0	0	0	0	0	0
<b>Total</b>				<b>10</b>	<b>0</b>	<b>12</b>	<b>180</b>	<b>120</b>	<b>380</b>	<b>120</b>	<b>16</b>	<b>800</b>
<b>Generic Elective Course Group (Choose any one course)</b>												
TEE7343	0701550108	Computational Structures and Algorithms	PE	2	0	2	30	20	60	40	3	150
TEE7360	0701550109	Signal Processing and Applications	PE	2	0	2	30	20	60	40	3	150
TEE7338	0701550110	Advanced Hydraulics and Pneumatics	PE	2	0	2	30	20	60	40	3	150
<b>Total Required Credits</b>							<b>30</b>	<b>20</b>	<b>60</b>	<b>40</b>	<b>3</b>	<b>150</b>
<b>Semester : 2</b>												
<b>Generic Core Courses</b>												
TEE7356	0701550201	Programmable and Supervisory Controllers	PC	2	0	2	30	20	60	40	3	150
TEE7339	0701550202	Autonomous Systems	PC	2	0	2	30	20	100	0	3	150
TEE7355	0701550203	Natural Language Processing for Robotics	PC	2	0	2	30	20	60	40	3	150
TEE7354	0701550204	Machine Vision for Robotics	PC	2	0	2	30	20	60	40	3	150
TEE7337	0701550205	Advanced Control Systems	PC	2	0	2	30	20	60	40	3	150
F0002	0701550206	Flexi Credit	PC	1	0	2	50	0	50	0	2	100
TH4789	0701550207	Health & Wellness Module -II	MC	0	0	0	0	0	0	0	NLG	0





## Annexure A

Symbiosis Institute of Technology, Pune  
M. Tech. (Robotics and Artificial Intelligence)

**Provisional Programme Structure 2026-28**

Catalog Course Code	Course Code	Course Title	Nature	Teaching Scheme			Practical		Examination Scheme Marks		Total Credits	Total	
				L	T	Lab	CA	ESE	CA	ESE			
<b>Total</b>				<b>11</b>	<b>0</b>	<b>12</b>	<b>180</b>	<b>120</b>	<b>390</b>	<b>160</b>	<b>17</b>	<b>850</b>	
<b>Generic Elective Course Group - I (Choose any one course)</b>													
TEE7358	0701550208	Reinforcement Learning for Robotics	PE	2	0	2	30	20	60	40	3	150	
TEE7345	0701550209	Data Base Management Systems	PE	2	0	2	30	20	60	40	3	150	
TEE7346	0701550210	Drone Technology	PE	2	0	2	30	20	60	40	3	150	
<b>Total</b>				<b>2</b>	<b>0</b>	<b>2</b>	<b>30</b>	<b>20</b>	<b>60</b>	<b>40</b>	<b>3</b>	<b>150</b>	
<b>Exit Option I - PG Diploma in RA</b>													
P4942	0701550211	Research Project	PIS	0	0	4	100	0	0	0	0	100	
P5305	0701550212	Flexi-Credit Course (MOOC)	PC	2	0	0	0	0	0	100	0	100	
<b>Total</b>				<b>2</b>	<b>0</b>	<b>4</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>0</b>	<b>200</b>	
<b>Semester : 3</b>													
<b>Generic Core Courses (Plan A Research)</b>													
P5307	0701550301	Dissertation phase-1 /Internship	PIS	0	0	24	360	240	0	0	12	600	
P5309	0701550302	MOOC	PC/PE	5	0	0	0	0	250	0	5	250	
P5308	0701550303	Seminar	PIS	0	0	8	0	0	120	80	4	200	
<b>Total</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>360</b>	<b>240</b>	<b>320</b>	<b>80</b>	<b>21</b>	<b>1050</b>

**Programme Structure**



## 2026-28 Annexure A

Symbiosis Institute of Technology, Pune

M. Tech. (Robotics and Artificial Intelligence)



## Provisional Programme Structure 2026-28

## Annexure A

Semester : 3												
Generic Core Courses (Plan B Coursework)												
P5310	0701550301	Research Methodology	PC	2	0	0	0	0	60	40	2	100
P5311	0701550302	Capstone Course	PC	2	0	0	0	0	100	0	2	100
P5312	0701550303	Flexi-Credit Course -1	PC	3	0	2	30	20	90	60	4	200
P5313	0701550304	Flexi-Credit Course -2	PC	3	0	2	30	20	90	60	4	200
P5314	0701550305	Flexi-Credit Course MOOC- 1	PC/PE	4	0	0	0	0	200	0	4	200
P5315	0701550306	Flexi-Credit Course MOOC - 2	PC/PE	4	0	0	0	0	200	0	4	200
<b>Total</b>				<b>18</b>	<b>0</b>	<b>4</b>	<b>60</b>	<b>40</b>	<b>740</b>	<b>160</b>	<b>20</b>	<b>1000</b>
Semester : 4												
Generic Core Courses												
P5316	0701550401	Dissertation Phase 2	PIS	0	0	28	420	280	0	0	14	700
P5305	0701550402	Flexi-Credit Course MOOC	PC	2	0	0	0	0	100	0	2	100
P5317	0701550403	Seminar	PC	0	0	0	100	0	0	0	2	100
P5318	0701550404	Research Publication	PC	0	0	4	60	40	0	0	2	100
<b>Total</b>				<b>2</b>	<b>0</b>	<b>32</b>	<b>580</b>	<b>320</b>	<b>100</b>	<b>0</b>	<b>20</b>	<b>1000</b>





**Symbiosis Institute of Technology, Pune M.  
Tech. (Robotics and Artificial Intelligence)  
Provisional Programme Structure 2026-28**

**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

Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester 1	8	12	20	1000
Semester 2	5	15	20	1000
Semester 3	8	12	20	1000
Semester 4	4	16	20	1000
<b>Total</b>	<b>21</b>	<b>53</b>	<b>80</b>	<b>4000</b>

