

**Symbiosis Institute of Technology, Pune**  
**Master of Technology (Engineering Design)**  
**Programme Structure 2025-27**

1.	<b>OBJECTIVE</b>	<p>This programme aims to:</p> <ol style="list-style-type: none"> <li>1. Provide an opportunity to pursue an independent research project while benefitting from the support of expert supervision.</li> <li>2. Develop an understanding of the research study, linking the research project directly to the candidate's current or future career interests, and obtain a taste of what PhD study might entail.</li> <li>3. Encourage the multidisciplinary research</li> <li>4. Strengthen the students' core knowledge and provide research training to contribute in the field of Science, Engineering and technology.</li> <li>5. Enhance the research culture and industry-academia connect at Faculty of Engineering, SIU.</li> </ol>			
2.	<b>DURATION (IN MONTHS)</b>	24 (Full Time)			
3.	<b>INTAKE</b>	12			
4.	<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	25	
5.	<b>ELIGIBILITY</b>	<p>a) Engineering graduate (B. E./B.Tech) 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) in any engineering discipline. OR Master's degree in Science or Master's degree in Computer Applications (with Physics &amp; Mathematics at Bachelor's level) or Master's degree in Computer Science (with Physics and Mathematics) at Bachelor's Level. b) UG + 2 years industry experience / Research experience in a research lab.</p>			
6.	<b>SELECTION PROCEDURE</b>	GATE score OR Entrance Test conducted at the Institute, followed by a Personal Interview for non-GATE candidates.			
7.	<b>MEDIUM OF INSTRUCTION</b>	English			
8.	<b>PROGRAMME PATTERN</b>	Semester			
9.	<b>COURSE &amp; SPECIALISATION</b>	As per Annexure A			
10.	<b>FEE</b>		<b>Academic Fee p.a</b>	<b>Institute Deposit</b>	<b>Total</b>

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	<b>Indian Students (Amount in INR)</b>		40000	20000	60000			
	<b>International Students</b>	<b>NRI/ PIO/ OCI Category (Amount in US\$)</b>	800	275	1075			
		<b>Foreign National Category (Amount in US\$)</b>	550	275	825			
<b>11. ASSESSMENT</b>	The courses will have 60% Continuous Assessment and 40% Term End [University] examination however, some courses (not more than 30% of the total programme credits) may have 100% Continuous Assessment.							
<b>12. STANDARD OF PASSING</b>	The assessment of students 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.							
<b>13. AWARD OF DEGREE</b>	Master of Technology (Engineering Design) will be awarded at the end of semester 4 examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.							
<b>14. CLASSIFICATION OF CREDITS</b>								
Semester	Generic Core	Generic Elective	Specialisation Core	Specialisation Elective	Open Elective	Mandatory Non-Credit Course/s	Non-Credit Audit Course/s	Total
<b>Common</b>								
1	9	10	0	0	0	0	As per the student's choice	19
2	17	0	0	0	0	0		17
3	20	0	0	0	0	2 *		20
4	24	0	0	0	0	0		24
<b>Total</b>	<b>70</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>80</b>
* Satisfactory completion of non credit courses 'Health and Wellness' and ' <i>Vasudhaiva Kutumbakam</i> ' is mandatory for award of degree.								
<b>Additional Note:</b> #Health and Wellness Module I and Module II will be conducted during the semesters mentioned in the programme structure. However, the course will be listed on the students' grade sheets as "Health and Wellness" in the semester in which the institute's course code is officially assigned.								

This Programme Structure is aligned with the norms laid down by the University and is approved by the Academic Council and Executive Council. Hereafter changes (if any) which conform to the policy on "Curriculum Development and Review" would be permissible, subject to revision of the Programme Structure, following the specified processes.

Director - Academics

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**Annexure A**

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>												
TE7919	0701500101	Research Methodology and Techniques		1	0	0	0	0	30	20	1	50
TE7917	0701500102	Quantitative Techniques		2	0	0	0	0	60	40	2	100
T7801	0701500103	Technical Presentation and Discussion		1	0	0	0	0	50	0	1	50
SW004	0701500104	Philosophy and Critical Thinking		4	0	0	0	0	200	0	4	200
SW005	0701500105	Design Thinking		1	0	0	0	0	50	0	1	50
TH4788		Health and Wellness Module I #		0	0	0	0	0	0	0	0	0
<b>Total</b>				<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>390</b>	<b>60</b>	<b>9</b>	<b>450</b>
<b>Independent Study Module - I (Choose any one course)</b>												
ISM7009	0701500106	Generative Artificial Intelligence		5	0	0	250	0	0	0	5	250
ISM7010	0701500107	Human Factors and Usability Engineering: Designing for Humans Specialisation and Design Thinking Specialisation		5	0	0	250	0	0	0	5	250
<b>Total Required Credits</b>							<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>250</b>
<b>Independent Study Module - II (Choose any one course)</b>												
ISM7001	0701500108	3D Printing and Additive Manufacturing Specialisation and Rapid Prototyping and Tooling Specialisation		5	0	0	250	0	0	0	5	250
ISM7016	0701500109	Machine Learning and NLP with MLOps and Deployment		5	0	0	250	0	0	0	5	250
<b>Total Required Credits</b>							<b>250</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>250</b>
<b>Semester : 2</b>												
<b>Generic Core Courses</b>												
TE7918	0701500201	Research Ethics and Integrity		1	0	0	0	0	50	0	1	50
SWM01	0701500202	Swayam Course		2	0	0	0	0	100	0	2	100
T7802	0701500203	Report - I		0	0	4	60	40	0	0	2	100
F0001	0701500204	Flexi-Credit Course		1	0	0	0	0	50	0	1	50
T7807	0701500205	Project - I		0	0	14	210	140	0	0	7	350
T7804	0701500206	Research Publication - I		0	0	8	120	80	0	0	4	200
TH4789		Health and Wellness Module II #		0	0	0	0	0	0	0	0	0
<b>Total</b>				<b>4</b>	<b>0</b>	<b>26</b>	<b>390</b>	<b>260</b>	<b>200</b>	<b>0</b>	<b>17</b>	<b>850</b>
<b>Semester : 3</b>												
<b>Generic Core Courses</b>												

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				L	T	Lab	CA	ESE	CA	ESE		
T7804	0701500301	Project - II (Technical Talk)		0	0	8	120	80	0	0	4	200
T7814	0701500302	Research Presentation - I		0	0	28	420	280	0	0	14	700
T7802	0701500303	Report - II		0	0	4	60	40	0	0	2	100
SMC001	0701500304	Vasudhaiva Kutumbakam *		0	0	0	0	0	0	0	Mandatory Non-Credit Course	0
SMC003	0701500305	Health and Wellness *		0	0	0	0	0	0	0	Mandatory Non-Credit Course	0
<b>Total</b>				<b>0</b>	<b>0</b>	<b>40</b>	<b>600</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>1000</b>
<b>Semester : 4</b>												
<b>Generic Core Courses</b>												
T7804	0701500401	Research Publication - II		0	0	8	120	80	0	0	4	200
T7810	0701500402	Thesis		0	0	20	300	200	0	0	10	500
T7808	0701500403	Research Presentation - II		0	0	16	240	160	0	0	8	400
T7802	0701500404	Report - III		0	0	4	60	40	0	0	2	100
<b>Total</b>				<b>0</b>	<b>0</b>	<b>48</b>	<b>720</b>	<b>480</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>1200</b>

**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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Semester	Continuous Assessment	End Semester Examination	Total Credits	Total Marks
<b>Common</b>				
Semester 1	16	3	19	950
Semester 2	4	13	17	850
Semester 3	0	20	20	1000
Semester 4	0	24	24	1200
<b>Total</b>	<b>20</b>	<b>60</b>	<b>80</b>	<b>4000</b>