

Symbiosis Institute of Technology, Pune
Master of Technology (Engineering Design)
Programme Structure 2025-2027

1.	OBJECTIVE	<p>This programme aims to:</p> <ol style="list-style-type: none"> 1. Provide an opportunity to pursue an independent research project while benefitting from the support of expert supervision. 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. 3. Encourage the multidisciplinary research 4. Strengthen the students' core knowledge and provide research training to contribute in the field of Science, Engineering and technology. 5. Enhance the research culture and industry-academia connect at Faculty of Engineering, SIU. 			
2.	DURATION (IN MONTHS)	24 (Full Time)			
3.	INTAKE	12			
4.	RESERVATION	I. Within the sanctioned intake	a) SC (In Percentage)	b) ST (In Percentage)	c) Differently abled (In Percentage)
			15	7.5	3
		II. Over and above the sanctioned intake	a) Kashmiri Migrants (In Seats)	b) International Students (In Percentage)	
			2	25	
5.	ELIGIBILITY	<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 & 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.	SELECTION PROCEDURE	GATE score OR Entrance Test conducted at the Institute, followed by a Personal Interview for non-GATE candidates.			
7.	MEDIUM OF INSTRUCTION	English			
8.	PROGRAMME PATTERN	Semester			
9.	COURSE & SPECIALISATION	As per Annexure A			
10.	FEE		Academic Fee p.a	Institute Deposit	Total

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	Indian Students (Amount in INR)		40000	20000	60000			
	International Students	NRI/ PIO/ OCI Category (Amount in US\$)	800	275	1075			
		Foreign National Category (Amount in US\$)	550	275	825			
11. ASSESSMENT	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.							
12. STANDARD OF PASSING	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.							
13. AWARD OF DEGREE	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.							
14. CLASSIFICATION OF CREDITS								
Semester	Generic Core	Generic Elective	Specialisation Core	Specialisation Elective	Open Elective	Mandatory Non-Credit Course/s	Non-Credit Audit Course/s	Total
Common								
1	9	10	0	0	0	0	As per the student's choice	19
2	15	2	0	0	0	0		17
3	20	0	0	0	0	2 *		20
4	24	0	0	0	0	0		24
Total	68	12	0	0	0	0		80
* Satisfactory completion of non credit courses 'Health and Wellness' and ' <i>Vasudhaiva Kutumbakam</i> ' is mandatory for award of degree.								
The revised programme structure supersedes the previously approved programme structure dated 11/11/2025 for the programme.								
Additional Note: #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.
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	La b	CA	ESE	CA	ESE		
Semester : 1												
Generic Core Courses												
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 #	MC	0	0	0	0	0	0	0	0	0
Total				9	0	0	0	0	390	60	9	450
Independent Study Module - I (Choose any one course)												
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
Total Required Credits							250	0	0	0	5	250
Independent Study Module - II (Choose any one course)												
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
Total Required Credits							250	0	0	0	5	250
Semester : 2												
Generic Core Courses												
TE7918	0701500201	Research Ethics and Integrity		1	0	0	0	0	50	0	1	50
T7802	0701500202	Report - I		0	0	4	60	40	0	0	2	100
F7060	0701500203	Technical Writing		1	0	0	0	0	50	0	1	50
T7807	0701500204	Project - I		0	0	14	210	140	0	0	7	350
T7804	0701500205	Research Publication - I		0	0	8	120	80	0	0	4	200
TH4789		Health and Wellness Module II #	MC	0	0	0	0	0	0	0	0	0
Total				2	0	26	390	260	100	0	15	750
Generic Elective Courses Group (Choose any one course)												

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				L	T	Lab	CA	ESE	CA	ESE		
NPTL002	0701500206	Intellectual Property Rights and Competition Law		2	0	0	0	0	100	0	2	100
NPTL003	0701500207	Copyright and Related Rights Law		2	0	0	0	0	100	0	2	100
Total Required Credits							0	0	100	0	2	100
Semester : 3												
Generic Core Courses												
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 *	MC	0	0	0	0	0	0	0	Mandatory Non-Credit Course	0
SMC003	0701500305	Health and Wellness *	MC	0	0	0	0	0	0	0	Mandatory Non-Credit Course	0
Total				0	0	40	600	400	0	0	20	1000
Semester : 4												
Generic Core Courses												
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
Total				0	0	48	720	480	0	0	24	1200

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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
Common				
Semester 1	16	3	19	950
Semester 2	4	13	17	850
Semester 3	0	20	20	1000
Semester 4	0	24	24	1200
Total	20	60	80	4000