



Symbiosis Institute of Health Sciences, Pune
Diploma in Biomedical Instrumentation
Programme Structure 2021-22

1. OBJECTIVE	The candidate will be able to a. Know the construction and use of medical equipments and devices. b. Operate the instruments optimally. c. Handle advanced and complicated equipments. d. Know the operation, principle and working of equipments. e. Understand the applied engineering aspects of the medical instruments and equipments. f. Maintain and handle the routine troubleshooting of equipments. g. Report the appropriate fault to the company engineers. h. Foster competencies of Medical Technologists in an environment of a dynamic and an ever changing technology.			
2. DURATION (IN MONTHS)	12 (Part Time)			
3. INTAKE	75			
4. RESERVATION	Not Applicable			
5. ELIGIBILITY	Candidate should be Std. XII Pass from recognized board or equivalent with Diploma/Degree in Allied Health Technology/Engineering or equivalent as decided by the competent authority / Work experience for 2 years in related field of Medical Technology OR Students of final year of degree programme in Medical Technology/Allied Health Sciences			
6. SELECTION PROCEDURE	Selection as per eligibility and personal interaction.			
7. MEDIUM OF INSTRUCTION	English			
8. PROGRAMME PATTERN	Semester			
9. COURSE & SPECIALIZATION	As per Annexure A			
10. FEE		Academic Fee p.a	Institute Deposit	Total
	Indian Students	27500	5000	32500
	International Students (USD equivalent to INR)	0	0	0
11. ASSESSMENT	All internal and external courses will have either 100% internal or external evaluation. The programme combines classroom instruction and practical training on-campus and in tertiary care hospitals, equipment industry.			
12. STANDARD OF PASSING	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.	AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE	Diploma in Biomedical Instrumentation (DBI) will be awarded at the end of semester II examination by taking into consideration the performance of all semester examinations after obtaining minimum 4.00 CGPA out of 10 CGPA.					
14.	NATURE WISE DISTRIBUTION OF CREDITS						
Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	15	0	0	0	0	0	15
2	14	1	0	0	0	0	15
Total	29	1	0	0	0	0	30

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.

Head - Academics

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Annexure A

Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
Semester : 1									
Generic Core Courses									
TH4019	0401710101	Practical - Medical Instrumentation		8	80	0	0	120	200
T4322	0401710102	Medical Electronics, Microprocessor & Microcomputers		3	30	45	0	0	75
T4346	0401710103	Introduction to Biomedical Instrumentation		2	20	30	0	0	50
T4321	0401710104	Principles & Techniques of Measuring and Recording Instruments		2	20	30	0	0	50
Total				15	150	105	0	120	375
Semester : 2									
Generic Core Courses									
T4809	0401710201	Project – Instrumentation		9	90	0	0	135	225
TE7306	0401710202	Biomedical Electronics		3	30	45	0	0	75
T4642	0401710203	Installation, Maintenance & Servicing		2	20	30	0	0	50
Total				14	140	75	0	135	350
Generic Elective Courses Group									
T4326	0401710204	Analytical & Laboratory Instruments		1	25	0	0	0	25
T4327	0401710205	Radiology Instruments		1	25	0	0	0	25
T4328	0401710206	Intensive Care & Dialysis Instruments		1	25	0	0	0	25
T4325	0401710207	Intensive Care & Surgical Instruments		1	25	0	0	0	25
Total Required Credits				1	0	0	0	0	0



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Semester	Internal Credits	External Credits	Total Credits	Total Marks
Semester 1	0	15	15	375
Semester 2	1	14	15	375
Total	1	29	30	750