

Symbiosis Institute of Health Sciences, Pune
Master of Science (Medical Technology)
Programme Structure 2019-21

1.	OBJECTIVE	To provide in-depth knowledge in the specific modality of Medical Technology and prepare the students for leadership roles in hospitals/ diagnostic labs./ research centers/ healthcare industry and provide professional growth to the students in following specializations: a) Cardiac Care b) Respiratory Therapy c) Imaging Sciences d) Clinical Laboratory e) Dialysis & Renal Technology f) OT & Anaesthesia Technology			
2.	DURATION (IN MONTHS)	24 (Full Time)			
3.	INTAKE	30			
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	15	
5.	ELIGIBILITY	<p>"Cardiac Care: Graduate from any statutory university with B.Sc. degree in Medical Technology with Cardiac Technology as specialization or equivalent from a recognized university/ Institution of National Importance. OR Bachelors in Life Sciences from a recognized University / Institution of National Importance and diploma / certificate Programme in Cardiac Technology /minimum one year of work experience in the department of Cardiology from a reputed institute / related field OR Bachelors in Medicine / Ayurveda / Homeopathy / Unani / Physiotherapy / Nursing from a recognized University / Institution of National Importance.</p> <p>Respiratory Therapy: Graduate from any statutory university with B.Sc. degree in Medical Technology with Respiratory Therapy as specialization or equivalent from a recognized university/ Institution of National Importance. OR Bachelors in Life Sciences from a recognized University / Institution of National Importance and diploma/ certificate Programme in Respiratory Therapy / Technology /minimum one year of work experience in the department of Respiratory Care from a reputed institute / related field OR Bachelors in Medicine / Ayurveda / Homeopathy / Unani / Physiotherapy / Nursing from a recognized University / Institution of National Importance.</p> <p>Imaging Sciences: Graduate from any statutory university with B.Sc. degree in Medical Technology with Imaging Sciences as specialization or equivalent from a recognized university/ Institution of National Importance OR Bachelors in Physics or Life Sciences as major or equivalent from recognized university / Institution of National Importance with diploma/ certificate Programme in Imaging Sciences /minimum one year of work experience in the department of Radiology from a</p>			

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		<p>reputed institute / related field OR Bachelors in Medicine / Ayurveda / Homeopathy / Unani from a recognized University / Institution of National Importance.</p> <p>Clinical Laboratory: Graduate from any statutory university with B.Sc. degree in Medical Technology with Clinical Laboratory Technology as specialization / Clinical Laboratory Science or equivalent from a recognized university/ Institution of National Importance OR Bachelors in Life Sciences or equivalent from recognized university / Institution of National Importance with diploma / certificate Programme in Clinical Laboratory /minimum one year of work experience in the department of Clinical laboratory from a reputed institute / related field OR Bachelors in Medicine / Ayurveda / Homeopathy / Unani from a recognized University / Institution of National Importance.</p> <p>Dialysis and Renal Technology : Graduate from any statutory university with B.Sc. degree in Medical Technology with Dialysis as specialization or equivalent from a recognized university/ Institution of National Importance OR Bachelors in Life Sciences or equivalent from recognized university / Institution of National Importance with diploma/ certificate Programme in Dialysis/Renal Technology / minimum one year of work experience in the department of Dialysis / Renal Sciences from a reputed institute / related field OR Bachelors in Medicine / Ayurveda / Homeopathy / Unani / Physiotherapy / Nursing from a recognized University / Institution of National Importance.</p> <p>OT and Anesthesia Technology: Graduate from any statutory university with B.Sc. degree in Medical Technology with OT & / Anesthesia as specialization or equivalent from a recognized university/ Institution of National Importance OR Bachelors in Life Sciences or equivalent from recognized university / Institution of National Importance with diploma/ certificate Programme in OT/Anesthesia Technology / minimum one year of work experience in the department of OT/Anesthesia Technology from a reputed institute / related field OR Bachelors in Medicine / Ayurveda / Homeopathy / Unani / Physiotherapy / Nursing from a recognized University or / Institution of National Importance.</p>
6.	SELECTION PROCEDURE	Selection based on marks in Qualifying examination followed by Entrance Examination, Personal Interaction and Written Ability Test.
7.	MEDIUM OF INSTRUCTION	English
8.	PROGRAMME PATTERN	Semester
9.	COURSE & SPECIALIZATION	<p>Annexure A</p> <p>The M.Sc. Medical Technology programme combines on campus classroom instructions and Lecture, Lecture demonstrations & exhaustive Practical Training in the tertiary care hospitals under the mentorship of the respective guides. Students can opt for any one of the following specializations from the first semester.</p> <p>a) Cardiac Care b) Respiratory Therapy c) Imaging Sciences d) Clinical Laboratory e) Dialysis & Renal Technology</p>

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		f) OT & Anaesthesia Technology Teaching Methodology will have theory (lecture demonstration) and practical component. The calculation of credits is based on 1 credit = 15 hours of lecture or lecture demonstration 1 credit = 30 hours of practical(supervised)					
10.	FEE		Academic Fee p.a	Institute Deposit	Total		
		Indian Students	182000	20000	202000		
		International Students (USD equivalent to INR)	275000	20000	295000		
11.	ASSESSMENT	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.					
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 10 for the programme.					
13.	AWARD OF DEGREE/ DIPLOMA/ CERTIFICATE	Master of Science (Medical Technology)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 for the programme.					
14.	NATURE WISE DISTRIBUTION OF CREDITS						
Semester	Generic Core	Generic Elective	Specialization Core	Specialization Elective	Open Elective	Audit	Total
1	6	1	13	0	0	0	20
2	9	1	10	0	0	1*	20
3	6	1	13	0	0	0	20
4	10	0	10	0	0	0	20
Total	31	3	46	0	0	0	80
* Satisfactory completion of the letter grade course 'Integrated Disaster Management' is mandatory for award of degree.							

Programme Structure is approved by the Academic Council subject to its norms & conditions. Any provision in the Programme Structure which violates the basic rules & regulations is deemed to be termed "Null & Void".

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									
T2225	040143101	Research Methodology		2	60	40	0	0	100
T4497	040143102	Teaching Methodology - I		2	50	0	0	50	100
T4004	040143103	Biostatistics & Basic Epidemiology		2	60	40	0	0	100
Total				6	170	80	0	50	300
Specialization Core Courses : Cardiac Care									
T4495	040143104	Cardiology Basics and Chest Roentgenogram	Cardiac Care	4	60	40	0	100	200
T4494	040143105	Etiopathogenesis of Heart Disease	Cardiac Care	4	60	40	0	100	200
T4797	040143106	Electro-Physiology, ECG and Stress Test Technique	Cardiac Care	3	60	40	0	50	150
T4493	040143107	Development of Cardiovascular System and Circulation (Fetal, Neonatal & Adult)	Cardiac Care	2	60	40	0	0	100
Total				13	240	160	0	250	650
Specialization Core Courses : Respiratory Therapy									
T4819	040143108	Cardiopulmonary Diseases	Respiratory Therapy	4	60	40	0	100	200
T4820	040143109	Advanced Respiratory Therapy-I	Respiratory Therapy	4	60	40	0	100	200
T4818	040143110	Basic Sciences (Anatomy and Physiology)	Respiratory Therapy	3	60	40	0	50	150
T4512	040143111	Cardiopulmonary Pharmacology	Respiratory Therapy	2	60	40	0	0	100
Total				13	240	160	0	250	650
Specialization Core Courses : Imaging Sciences									
T4522	040143112	Radiation Physics and Protection	Imaging Sciences	4	60	40	0	100	200
T4809	040143113	Imaging Equipment (I) -X-Ray and Mammography	Imaging Sciences	4	60	40	0	100	200
T4873	040143114	Radiographic Photography	Imaging Sciences	3	60	40	0	50	150
T4029	040143115	Applied Physics in Medical Imaging	Imaging Sciences	2	60	40	0	0	100
Total				13	240	160	0	250	650
Specialization Core Courses : Clinical Laboratory									
T4072	040143116	Systemic Bacteriology	Clinical Laboratory	4	60	40	0	100	200
T4829	040143117	Biochemistry	Clinical Laboratory	3	60	40	0	50	150
T4830	040143118	Parasitology	Clinical Laboratory	3	60	40	0	50	150
T4831	040143119	Clinical Pathology	Clinical Laboratory	3	60	40	0	50	150
Total				13	240	160	0	250	650
Specialization Core Courses : Dialysis & Renal Technology									
T4844	040143120	Aetio-Pathology of Renal Disease	Dialysis & Renal Technology	4	60	40	0	100	200
T4845	040143121	Renal Pharmacology	Dialysis & Renal Technology	4	60	40	0	100	200

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Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
T4843	040143122	Water Treatment	Dialysis & Renal Technology	3	60	40	0	50	150
T4842	040143123	Renal Anatomy and Physiology	Dialysis & Renal Technology	2	50	0	0	50	100
Total				13	230	120	0	300	650
Specialization Core Courses : Operation Theatre & Anaesthesia Technology									
T4309	040143124	Pre-Anesthetic Patient Assessment	Operation Theatre & Anaesthesia Technology	3	60	40	0	50	150
T4857	040143125	Anesthetic Fitness Criteria and Pre Surgery Checklist	Operation Theatre & Anaesthesia Technology	3	60	40	0	50	150
T4858	040143126	Infection Control in Operation Theatre	Operation Theatre & Anaesthesia Technology	3	60	40	0	50	150
T4855	040143127	Pre-Operative Patient Investigation	Operation Theatre & Anaesthesia Technology	2	60	40	0	0	100
T4856	040143128	Patient Preparation	Operation Theatre & Anaesthesia Technology	2	60	40	0	0	100
Total				13	300	200	0	150	650
Generic Elective Courses Group									
T4498	040143129	IT Applications for Allied Health Care		1	50	0	0	0	50
T4499	040143130	Medical Physics		1	50	0	0	0	50
Total Required Credits				1	50	0	0	0	50
Semester : 2									
Generic Core Courses									
T2216	040143201	Business Statistics		2	60	40	0	0	100
T4023	040143202	Pathology and Case Presentation-I		2	50	0	0	50	100
T2560	040143203	Principles and Practices of Management		2	60	40	0	0	100
T4874	040143204	Review of Literature -II		2	0	0	0	100	100
T4045	040143205	Teaching Methodology -II		1	50	0	0	0	50
T4005	040143206	Integrated Disaster Management *		0	0	0	0	0	Letter Grade
Total				9	220	80	0	150	450
Specialization Core Courses : Cardiac Care									
T4798	040143207	Clinical Cardiology	Cardiac Care	4	60	40	0	100	200
T4799	040143208	Echocardiography and Peripheral Doppler - I	Cardiac Care	4	60	40	0	100	200
T4800	040143209	Biomedical Instrumentation in Cardiac Care	Cardiac Care	2	50	0	0	50	100
Total				10	170	80	0	250	500
Specialization Core Courses : Respiratory Therapy									
T4821	040143210	Advanced Respiratory Therapy-II	Respiratory Therapy	4	60	40	0	100	200

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Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
T4822	040143211	Critical Care Medicine-I	Respiratory Therapy	4	60	40	0	100	200
T4823	040143212	Biomedical Instrumentation in Respiratory Therapy	Respiratory Therapy	2	50	0	0	50	100
Total				10	170	80	0	250	500
Specialization Core Courses : Imaging Sciences									
T4810	040143213	Image Interpretation (X-Ray and Mammography)	Imaging Sciences	3	60	40	0	50	150
T4811	040143214	Imaging Equipment (II)-Computed Tomography (CT)	Imaging Sciences	3	60	40	0	50	150
T4527	040143215	Imaging Equipment and Techniques in Ultrasonography (USG)	Imaging Sciences	2	50	0	0	50	100
T4808	040143216	Techniques in X-Ray and Mammography	Imaging Sciences	2	60	40	0	0	100
Total				10	230	120	0	150	500
Specialization Core Courses : Clinical Laboratory									
T4832	040143217	Clinical Haematology	Clinical Laboratory	4	60	40	0	100	200
T4833	040143218	Diagnostic Microbiology	Clinical Laboratory	4	60	40	0	100	200
T4834	040143219	Instrumentation in Clinical Laboratory	Clinical Laboratory	2	50	0	0	50	100
Total				10	170	80	0	250	500
Specialization Core Courses : Dialysis & Renal Technology									
T4846	040143220	Theory and Principles of Haemodialysis	Dialysis & Renal Technology	4	60	40	0	100	200
T4847	040143221	Clinical Nephrology	Dialysis & Renal Technology	4	60	40	0	100	200
T4848	040143222	Dialysis Equipment	Dialysis & Renal Technology	2	50	0	0	50	100
Total				10	170	80	0	250	500
Specialization Core Courses : Operation Theatre & Anaesthesia Technology									
T4860	040143223	Techniques in Anesthesia	Operation Theatre & Anaesthesia Technology	3	60	40	0	50	150
T4861	040143224	Safety Measures in Operation Theatre	Operation Theatre & Anaesthesia Technology	3	60	40	0	50	150
T4859	040143225	Anesthetic Agents	Operation Theatre & Anaesthesia Technology	2	60	40	0	0	100
T4862	040143226	Biomedical Instrumentation in OT and Anesthesia	Operation Theatre & Anaesthesia Technology	2	50	0	0	50	100
Total				10	230	120	0	150	500
Generic Elective Courses Group									
T4438	040143227	Computer Language		1	50	0	0	0	50

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T4501	040143228	Emerging Trends in Allied Health Care		1	50	0	0	0	50
Total Required Credits				1	50	0	0	0	50
Semester : 3									
Generic Core Courses									
T4043	040143301	Pathology and Case Presentation-II		2	50	0	0	50	100
T5090	040143302	Summer Internship		2	0	0	0	100	100
T4571	040143303	Hospital Information System		1	50	0	0	0	50
T4063	040143304	Teaching Methodology -III		1	50	0	0	0	50
Total				6	150	0	0	150	300
Specialization Core Courses : Cardiac Care									
T4801	040143305	Echocardiography and Peripheral Doppler-II	Cardiac Care	3	60	40	0	50	150
T4802	040143306	Cardiac Pacemakers and Cardioverter Defibrillators	Cardiac Care	3	60	40	0	50	150
T4803	040143307	Cardiac Catheterization	Cardiac Care	3	60	40	0	50	150
T4084	040143308	Applied Management in Cardiac Care Unit	Cardiac Care	2	50	0	0	50	100
F0002	040143309	Flexi-Credit Course	Cardiac Care	2	100	0	0	0	100
Total				13	330	120	0	200	650
Specialization Core Courses : Respiratory Therapy									
T4515	040143310	Critical Care Medicine-II	Respiratory Therapy	3	60	40	0	50	150
T4089	040143311	Applied Management in Respiratory Therapy Unit	Respiratory Therapy	2	50	0	0	50	100
F0002	040143312	Flexi-Credit Course	Respiratory Therapy	2	100	0	0	0	100
T4824	040143313	Advanced Respiratory Therapy-III	Respiratory Therapy	2	60	40	0	0	100
T4825	040143314	Emergency Medical Services-I	Respiratory Therapy	2	60	40	0	0	100
T4826	040143315	Cardiopulmonary Rehabilitation	Respiratory Therapy	2	60	40	0	0	100
Total				13	390	160	0	100	650
Specialization Core Courses : Imaging Sciences									
T4814	040143316	Techniques in Magnetic Resonance Imaging (MRI)	Imaging Sciences	3	60	40	0	50	150
T4094	040143317	Applied Management in Radiology Unit	Imaging Sciences	2	50	0	0	50	100
T4532	040143318	Cross-Sectional Anatomy (CT, MRI)	Imaging Sciences	2	50	0	0	50	100
F0002	040143319	Flexi-Credit Course	Imaging Sciences	2	100	0	0	0	100
T4812	040143320	Techniques in Computed Tomography (CT)	Imaging Sciences	2	60	40	0	0	100
T4813	040143321	Imaging Equipment (III)-Magnetic Resonance Imaging (MRI)	Imaging Sciences	2	60	40	0	0	100
Total				13	380	120	0	150	650
Specialization Core Courses : Clinical Laboratory									
T4835	040143322	Clinical Biochemistry	Clinical Laboratory	3	60	40	0	50	150
T4836	040143323	Virology and Mycology	Clinical Laboratory	3	60	40	0	50	150

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T4837	040143324	Blood Banking	Clinical Laboratory	3	60	40	0	50	150
T4543	040143325	Applied Management in Clinical Laboratory	Clinical Laboratory	2	50	0	0	50	100
F0002	040143326	Flexi-Credit Course	Clinical Laboratory	2	100	0	0	0	100
Total				13	330	120	0	200	650
Specialization Core Courses : Dialysis & Renal Technology									
T4849	040143327	Theory and Principles of Peritoneal Dialysis	Dialysis & Renal Technology	3	60	40	0	50	150
T4850	040143328	Investigations in Renal Diseases	Dialysis & Renal Technology	3	60	40	0	50	150
T4851	040143329	Patient Care in Renal Technology	Dialysis & Renal Technology	3	60	40	0	50	150
T4551	040143330	Applied Management in Renal Care Unit	Dialysis & Renal Technology	2	50	0	0	50	100
F0002	040143331	Flexi-Credit Course	Dialysis & Renal Technology	2	100	0	0	0	100
Total				13	330	120	0	200	650
Specialization Core Courses : Operation Theatre & Anaesthesia Technology									
T4863	040143332	Procedures in Thoracic and Cardiac OT	Operation Theatre & Anaesthesia Technology	3	60	40	0	50	150
T4561	040143333	Applied Management in OT and Anaesthesia Unit	Operation Theatre & Anaesthesia Technology	2	50	0	0	50	100
T4312	040143334	Procedures in Ear, Nose, Throat (ENT), Ophthalmic and Paediatric OT	Operation Theatre & Anaesthesia Technology	2	50	0	0	50	100
F0002	040143335	Flexi-Credit Course	Operation Theatre & Anaesthesia Technology	2	100	0	0	0	100
F0002	040143336	Flexi-Credit Course	Operation Theatre & Anaesthesia Technology	2	100	0	0	0	100
T4864	040143337	Procedures in Abdomen, Obstetric, Gynaecology and Urology (OBGY & URO)OT	Operation Theatre & Anaesthesia Technology	2	60	40	0	0	100
Total				13	420	80	0	150	650
Generic Elective Courses Group									
T4506	040143338	Innovation and Entrepreneurship		1	50	0	0	0	50
T4801	040143339	Community Project		1	50	0	0	0	50
Total Required Credits				1	50	0	0	0	50
Semester : 4									
Generic Core Courses									

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Catalog Course Code	Course Code	Course Title	Specialization	Credits	Internal Marks	External Mark	Internal Practical Marks	External Practical Marks	Total Marks
T4704	040143401	Dissertation		5	0	0	0	250	250
T4061	040143402	Pathology and Case Presentation-III		2	50	0	0	50	100
T4901	040143403	On Job Training		2	0	0	0	100	100
T4085	040143404	Teaching Methodology -IV		1	50	0	0	0	50
Total				10	100	0	0	400	500
Specialization Core Courses : Cardiac Care									
T4804	040143405	Peripheral Catheterization	Cardiac Care	3	60	40	0	50	150
T4805	040143406	Intensive Cardiac Care Unit (ICCU) and Cardiopulmonary Resuscitation (CPR)	Cardiac Care	3	50	0	0	100	150
T4806	040143407	Recent Advances in Cardiology	Cardiac Care	2	60	40	0	0	100
T4807	040143408	Quality Assurance, Standardization and Accreditation (Cardiac Care)	Cardiac Care	2	60	40	0	0	100
Total				10	230	120	0	150	500
Specialization Core Courses : Respiratory Therapy									
T4519	040143409	Emergency Medical Services-II	Respiratory Therapy	3	60	40	0	50	150
T4517	040143410	Neonatal and Pediatric Respiratory Care	Respiratory Therapy	3	60	40	0	50	150
T4827	040143411	Critical Care Medicine-III	Respiratory Therapy	2	60	40	0	0	100
T4828	040143412	Quality Assurance, Standardization and Accreditation (Respiratory Therapy)	Respiratory Therapy	2	60	40	0	0	100
Total				10	240	160	0	100	500
Specialization Core Courses : Imaging Sciences									
T4536	040143413	Picture Archiving and Communications System (PACS) and Radiology Information System (RIS) & Teleradiology	Imaging Sciences	2	50	0	0	50	100
T4638	040143414	Advances in Medical Imaging	Imaging Sciences	2	60	40	0	0	100
T4815	040143415	Special Investigations and Techniques	Imaging Sciences	2	60	40	0	0	100
T4816	040143416	Quality Assurance, Standardization and Accreditation (Imaging Sciences)	Imaging Sciences	2	60	40	0	0	100
T4817	040143417	Calibration and Quality Control in Computerized Tomography (CT) & Magnetic Resonance Imaging (MRI)	Imaging Sciences	2	60	40	0	0	100
Total				10	290	160	0	50	500
Specialization Core Courses : Clinical Laboratory									
T4098	040143418	Newer Diagnostic Techniques	Clinical Laboratory	2	50	0	0	50	100
T4838	040143419	Immunology	Clinical Laboratory	2	60	40	0	0	100

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T4839	040143420	Cytology	Clinical Laboratory	2	60	40	0	0	100
T4840	040143421	Histopathology	Clinical Laboratory	2	60	40	0	0	100
T4841	040143422	Quality Assurance, Standardization and Accreditation (Clinical Laboratory)	Clinical Laboratory	2	60	40	0	0	100
Total				10	290	160	0	50	500
Specialization Core Courses : Dialysis & Renal Technology									
T4852	040143423	Theory and Principles of other Renal Procedures	Dialysis & Renal Technology	4	60	40	0	100	200
T4854	040143424	Recent Advances in Renal Technology	Dialysis & Renal Technology	4	100	0	0	100	200
T4853	040143425	Quality Assurance, Standardization and Accreditation (Dialysis and Renal Technology)	Dialysis & Renal Technology	2	60	40	0	0	100
Total				10	220	80	0	200	500
Specialization Core Courses : Operation Theatre & Anaesthesia Technology									
T4562	040143426	Procedures in Orthopedic and Trauma Care	Operation Theatre & Anaesthesia Technology	2	50	0	0	50	100
T4319	040143427	Transfusion and IV Therapy	Operation Theatre & Anaesthesia Technology	2	50	0	0	50	100
T4865	040143428	Critical Care Services	Operation Theatre & Anaesthesia Technology	2	60	40	0	0	100
T4866	040143429	Recovery Room and Day Care	Operation Theatre & Anaesthesia Technology	2	60	40	0	0	100
T4867	040143430	Quality Assurance, Standardization and Accreditation (OT and Anaesthesia)	Operation Theatre & Anaesthesia Technology	2	60	40	0	0	100
Total				10	280	120	0	100	500

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Semester	Internal Credits	External Credits	Total Credits	Total Marks
Cardiac Care				
Semester 1	1	19	20	1000
Semester 2	2	18	20	1000
Semester 3	5	15	20	1000
Semester 4	1	19	20	1000
Total	9	71	80	4000
Respiratory Therapy				
Semester 1	1	19	20	1000
Semester 2	2	18	20	1000
Semester 3	5	15	20	1000
Semester 4	1	19	20	1000
Total	9	71	80	4000
Imaging Sciences				
Semester 1	1	19	20	1000
Semester 2	2	18	20	1000
Semester 3	5	15	20	1000
Semester 4	1	19	20	1000
Total	9	71	80	4000
Clinical Laboratory				
Semester 1	1	19	20	1000
Semester 2	2	18	20	1000
Semester 3	5	15	20	1000
Semester 4	1	19	20	1000
Total	9	71	80	4000
Dialysis & Renal Technology				
Semester 1	1	19	20	1000
Semester 2	2	18	20	1000
Semester 3	5	15	20	1000
Semester 4	1	19	20	1000
Total	9	71	80	4000
Operation Theatre & Anaesthesia Technology				
Semester 1	1	19	20	1000
Semester 2	2	18	20	1000
Semester 3	7	13	20	1000
Semester 4	1	19	20	1000
Total	11	69	80	4000