

2. PROGRAM EDUCATION OBJECTIVES (PEOs)

The overall objective of the learning outcome-based curriculum framework (LOCF) for B.Sc. Radiotherapy Technology Program are as follows:

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PEO No.	Education Objective
PEO 1	Students will be able to use their fundamental knowledge and technical competence in Radiotherapy treatment as and when required to achieve professional excellence.
PEO 2	Students will demonstrate strong and well defined practical skills in Radiotherapy treatment.
PEO 3	Students will be able to practice the profession with highly professional and ethical attitude, strong communication skills, and effective professional skills to work in a inter-disciplinary team.
PEO 4	Students will be able to use interpersonal and collaborative skills to identify, assess and formulate problems and execute the solution Radiotherapy treatment.
PEO 5	Students will be able to imbibe the culture of research, innovation, entrepreneurship and incubation.
PEO 6	Students will be able to participate in lifelong learning process for a highly productive career and will be able to relate the concepts of different modalities of Radiotherapy treatment towards serving the cause of the society.







5. PROGRAM OUTCOMES (POs):

After successful completion of Bachelor / BSc Radiotherapy Technology program, students will be able to:

PO No.	Attribute	Competency
PO 1	Professional knowledge	Possess and acquire scientific knowledge to work as a health care professional
PO 2	Clinical/ Technical skills	Demonstrate and possess clinical skills to provide quality health care services
PO 3	Team work	Demonstrate team work skills to support shared goals with the interdisciplinary health care team to improve societal health
PO 4	Ethical value & professionalism	Possess and demonstrate ethical values and professionalism within the legal framework of the society
PO 5	Communication	Communicate effectively and appropriately with the interdisciplinary health care team and the society
PO 6	Evidence based practice	Demonstrate high quality evidence based practice that leads to excellence in professional practice
PO 7	Life-long learning	Enhance knowledge and skills with the use of advancing technology for the continual improvement of professional practice
PO 8	Entrepreneurship, leadership and mentorship	Display entrepreneurship, leadership and mentorship skills to practice independently as well as in collaboration with the interdisciplinary health care team







6. COURSE STRUCTURE, COURSE WISE LEARNING OBJECTIVE, COURSE **OUTCOMES (COs)**

SCHEME OF CURRICULUM

SEMESTER - I		Cred	dits D	istril	n eek	Marks Distribution			
Course	Course Title	L,1,P,	T	P	CL	С	IAC	ESE	Total
Code		-	-		-	3	30	70	100
ANA1103	Anatomy	3			_	2	30	70	100
PHY1101	Physiology - I	2	-			2	100	-	100
CSK1001	Communication Skills	2	-	_		2	100	-	100
EIC1001	Environmental science and Indian constitution	2	-	_			50	50	100
===±404	Basic Physics	2	1		-	3	1	30	100
RTT1101	L Alind	3	1	-	-	4	100	_	100
RTT1102	Mathematics	2	-	4	+-	4	100	-	100
RTT1121	Fundamentals of Computers and Computer	2							
	Applications Total	1 16	2	4	-	20	510	190	70

ESE for ANA1103, PHY1101 will be conducted out of 50 and normalized to 70

ESE for RTT1101 will be conducted out of 100 and normalized to 50

SEMESTER - II			Distri re Ho	butio	,P,	Marks Distribution			
Course	Course Title	1 1	T	Р	CL	C	IAC	ESE	Total
Code			•	-	1923	2	30	70	100
PHY1201	Physiology - II	2	4.5			2	100	-	100
GPY2204	General Psychology	2	-			4	50	50	100
RTT1201	Radiation Physics	3	1	-	-	3	50	50	100
RTT1202	Radiation Quantities and Detection	2	1		-	4	50	50	100
RTT1203	Radiobiology	3	1	-	+-	3	100	-	100
RTT1204	Bioethics	2	1	-	-	2	50	50	100
RTT1205	Hospital Practice and	13H 2 30	-			_			
1411120	Patient Care Tota	Inqin161	4	-	-	20	430	270	700

ESE for PHY1201 will be conducted out of 50 and normalized to 70

ESE for RTT1201, RTT1202, RTT1203, will be conducted out of 100 and normalized to 50

ESE for RTT1205 will be conducted out of 50

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SEMESTER - III

Course Code	Course Title			Distri re Ho	Marks Distribution				
Code		L	Т	Р	CL	С	IAC	ESE	Total
PAT2102	Pathology	2	-	-	-	2	100	-	100
RTT2101	Radiotherapy Equipments	3	1	- -	1	4	50	50	100
RTT2102	Principles and Practice of Radiology Part I	2	1	- -	•	3	50	50	100
RTT2103	Patient Positioning and Immobilization/ Mould Room Techniques	2	-	-	-	2	50	50	100
RTT2131	Clinical practice- Radiotherapy Equipment's	-	-	-	18	6	100	-	100
*** ****	Open Elective - I	-	-		-	3	S/NS		
	Total	9	2	-	18	20	350	150	500

Note:

ESE for RTT2101, RTT2102 will be conducted out of 100 and normalized to 50

ESE for RTT2103 will be conducted out of 50

SEMESTER IV

Course Code	Course Title		edits , CL a		Marks Distribution				
Code		٦	Т	Р	CL	C	IAC	ESE	Total
RTT2201	Physics of External Beam Radiotherapy	3	1	1	1 15	3	50	50	100
RTT2202	Principles and Practice of Radiology Part II	2	1	1	-	3	50	50	100
RTT2231	Clinical Practice- Radiation Beam therapy	1		-	33	11	100	1	100
RTT ****	Program Elective - I	3	-	-	<u> </u>	3	50	50	100
	Total		1	•	33	20	250	150	400

Note:

ESE for RTT2201, RTT2202 will be conducted out of 100 and normalized to 50







SEMESTER - V

Course Code	Course Title	Cı		Distr P, CL urs/we	Marks Distribution				
	salaw s aren alaşqısı si	L	Т	Р	CL	С	IAC	ESE	Total
RTT3101	Principles and Practice of Radiotherapy Part I	3		•	_	3	50	50	100
RTT3102	Record Keeping	2	-	1	-	2	50	50	100
RTT3103	Radiation Protection, Standards and Regulations	3	-	-	-	3	50	50	100
RTT3111	Practical and Viva -I Radiotherapy Practice	-	-	4	-	2	100	-	100
RTT3131	Clinical practice- External Beam Radiotherapy	-			21	7	100	<u>-</u>	100
*** ***	Open Elective - II	-	-	-	-	3	S/NS		
	Total	8	-	4	21	20	350	150	500

Note:

ESE for RTT3102 will be conducted out of 50

ESE for RTT3101, RTT3103 will be conducted out of 100 and normalized to 50

SEMESTER - VI

Course Code	Course Title	С	L,1	s Dist r,P, Cl ours/w		n	Marks Distribution			
Couc	atothic reserve	L	T	Р	CL	С	IAC	ESE	Total	
BST3201	Biostatistics & Research Methodology	3	-	1	•	3	30	70	100	
RTT3201	Principles and Practice of Radiotherapy Part II	3	-	1	-	3	50	50	100	
RTT3211	Practical and Viva II Radiotherapy Practice	-	-	4	-	2	50	50	100	
RTT3231	Clinical Practice-Advances in Radiation Beam Therapy	-		-	27	9	100	-	100	
RTT ****	Program Elective - II	3		-		3	50	50	100	
	TOTAL	9	-	4	27	20	280	220	500	

ESE for BST3201 will be conducted out of 100 and normalized to 70

ESE for RTT3201, RTT3211 will be conducted out of 100 and normalized to 50



