Needs: Local: Pink, National: Orange, Regional: light blue, International: green

Colour Coding

Global Regional National Amexwa (State)

GREEN BLUE ORANGE PINK

Syllabus of B.Sc. in Radiotherapy Technology (BSc RTT)

COLLEGE OF MEDICAL TECHNOLOGY & ALLIED HEALTH SCIENCES, SGPGIMS, LUCKNOW

Paper Mo	Module	1st Semester	Syllabus of B.Sc. in Rac Class/week		Credit		End Semester marks		Internal Marks		Total
			Lecture	T/P/D/CT	Credit	Sum	Theory	Practical	Theory	Practical	, A Otal
Found	BScRTT-	Introduction to	3	2	5	. 6	40	0	10	0	50
ation 1	001	Healthcare Delivery System in India		*							
	BScRTT- 010	Community orientation and clinical visit	0	2	1		4.85				
Found ation 2	BScRTT- 002	Basic computers and information Science	2	2	3	3	40	0	10	0	50
Found ation 3	BScRTT- 006	Introduction to Quality and patient safety	2	2	. 3	3	40	0	10	0	50
Found ation 4	BScRTT- 003	Communication and soft skills	1	2	2	4	40	0	10	0	50
		English	2	0	2						
Core 1	BScRTT- 012	Human Anatomy and Physiology	2	6	5	5	80	80	20	20	200
Core 2	BScRTT- 011	Elementary Mathematics and Physics	2	0	2	5	80	0	20	0	100
	BScRTT- 016	Radiation Quantities, units and Detection/Measurement	2	1	3	5	80	0	20	0	100
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Executive Registrar
SGPGIMS, Lucknow

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	Executive/Registrate RSGPGIMS:Lucknows	F .									
Syllabus	arun. Baji ulive Regis of Luck	adictherapy Technology (BSc	RTT)							Annexure	1
Panar	Me auto	2nd Semester	Clas	ss/week	Cre	dit	End Semester marks		Intern	al Marks	Total
rapei	Module	Z Schlester	Lecture	T/P/D/CT	Credit	Sum	Theory	Practical	Theory	Practical	101111
Found ation 5	BScRTT- 004	Medical Terminology and Record keeping (includes anatomical terms)	2	2	3	3	80	0	20	0	100
Found ation 6	BScRTT- 005	Medical Law and Ethics	. 3	0	3	9.	80	0	20	0	100
	BScRTT- 007	Professionalism and values	2	2	3				9		
	BScRTT- 009	Principals and Management	3	0	3						
Core 3	BScRTT- 014	Oncology Science-I	2	- 0	5	5	80		20		100
Core 4	BScRTT- 015	Principles of Radiotherapy and Radiotherapy techniques	3	1	5	9	80	80	20	20	200
	BScRTT- 017	Basic Radiation Physics	2	0	4		80	0	20	0	100
			,		26						600
Paper	Module	3rd Semester	Lecture	T/P/D/CT	Credit	Sum	Theory	Practical	Theory	Practical	Total
Found		General Pathology	2	2	3	6	40	40	10	10	100
Core 5	BScRTT-	General Microbiology Oncology Science-II	2 2	0	5	5	80		20		100
Core 6	BScRTT-	Radiotherapy Equipment-I	3	5	8	8	80	80	20	20	200
Foundation 8	BScRTT- 008	Research Methodology & Biostatistics	3	2	4	4	80	0	20	0	100
					23						500
Paper	Module	4th Semester	Lecture	T/P/D/CT	Credit	Sum	Theory	Practical	Theory	Practical	Total
Core 7	BScRTT- 021	Patient care, positioning and immobilization	3	5	8	8	80	80	20	20	200
Core 8	BScRTT-	Radiotherapy	2	5	6	6	80	0	20	0	100

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Annexure il Annexure

Local (State)

	22	Equipment-II	1	T	T	T	T	T	1	LO	cal (Sta
Core 9	BScRTT-	Quality Assurance in	2	3	6	6	80	80	20	20	200
***************************************	023	Radiotherapy-I								20	
Core	BScRTT-	Basic Radiotherapy	2	0	4	4	80	0	20	0	100
10	024	Physics									
***************************************			***************************************		24	-					600
Paper	Module	5 nd Semester	Cla	ss/week	Cre	dit	End Sen	ester marks	Internal Marks		Total
			Lecture	T/P/D/CT	Credit	Sum	Theory	Practical	Theory	Practical	
Core	BSCRTT -020	Radiation Safety	2	2	6	6	80	80	20	20	200
Core 12	BScRTT- 026	Clinical Radiobiology	2	0	4	7	50	0	10	0	60
	BScRTT- 025	Biological effects of radiation	1	0	3		30		10		40
Core 13	BScRTT- 027	Mould room/Motion management techniques	2	2	4	9	20	40	05	10	75
	BScRTT- 028	Special RT techniques and Recent advances	3	2	5		60	40	15	10	125
					22		***************************************				500
Paper	Module	6 th Semester	Lecture	T/P/D/CT	Credit	Sum	Theory	Practical	Theory	Practical	Total
Core14	BScRTT- 01'3	Radiographic Anatomy	1	2	4	5	80		20		100
	BScRTT- 029	Radiological /Nuclear Medicine /Other Imaging Techniques in Radiotherapy Planning	2	4	7	7	80	80	20	20	200
Core15	BScRTT- 030	Radiotherapy Treatment delivery	1	5	6	8	60	40	15	10	125
	BScRTT- 031	Operational Issues in Radiation Therapy	1	2	4	4	20	40.	05	10	75
	T T-4 : 1/		,		21	7					500

T/P/D/CT- Tutorial/ Practical/ Demonstration/ Clinical training

Syllabus of B.Sc. in Radiotherapy Technology (BSc RTT)

Students will be posted in various areas of the department on rotation basis in the remaining time (after lectures/Tutorial/ Practical) under supervision technical staff/ guest facilities for self-directed learning, clinical training and education.

Paries of South



4th Year of complete one year Internship

A student can only start internship after clearing all papers of 1st to 6sh semester as per the prescribed pass/promotion rules by CMT, SGPGIMS, and his/her conduct has to be good throughout this duration.

Students have to undertake the rotational postings during which students have to work under supervision of an experienced staff in the following areas.

Sr no.	Posting	Duration	Credit
1	Radiotherapy Simulation (Virtual), patient counselling	2 months	08
22	Radiotherapy planning CT and positioning & other modalities	1 months	06
3	Intracavitary, Interstitial, surface mould therapy-HDR Brachytherapy equipment	1 months	06
4	Making of Thermoplastic cast, vac-locks, Bolus, lead blocks- Mould Room	2 months	. 08
5	Treatment Execution (Conventional and Conformal and intensity modulated radiotherapy)	3 months	12
6	Advanced treatment execution (VMAT, Image guidance, DIBH,SRT,SBRT and other techniques)	3 months	12
	Total	12 months	52

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