

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

Colour Coding
 Global GREEN
 Regional BLUE
 National ORANGE
 Annexure (State) PINK

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

COLLEGE OF MEDICAL TECHNOLOGY & ALLIED HEALTH SCIENCES, SGP GIMS, LUCKNOW
Syllabus of B.Sc. in Radiotherapy Technology (BSc RTT)

Paper	Module	1 st Semester	Class/week		Credit		End Semester marks		Internal Marks		Total
			Lecture	T/P/D/CT	Credit	Sum	Theory	Practical	Theory	Practical	
Founda- tion 1	BScRTT- 001	Introduction to Healthcare Delivery System in India	3	2	5	6	40	0	10	0	50
	BScRTT- 010	Community orientation and clinical visit	0	2	1						
Founda- tion 2	BScRTT- 002	Basic computers and information Science	2	2	3	3	40	0	10	0	50
Founda- tion 3	BScRTT- 006	Introduction to Quality and patient safety	2	2	3	3	40	0	10	0	50
Founda- tion 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
					26						600

Handwritten signatures:
 Anupam, Pooja, S Singh, Parvati, Sarthi, Polina, Manish, Anam, NSiph, [Signature]

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 Lt Col Varun Bajpai VSM
 Executive Registrar
 SGP GIMS, Lucknow

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Paper	Module	2 nd Semester	Class/week		Credit		End Semester marks		Internal Marks		Total
			Lecture	T/P/D/CT	Credit	Sum	Theory	Practical	Theory	Practical	
Founda- tion 5	BScRTT- 004	Medical Terminology and Record keeping (includes anatomical terms)	2	2	3	3	80	0	20	0	100
Founda- tion 6	BScRTT- 005	Medical Law and Ethics	3	0	3	9	80	0	20	0	100
	BScRTT- 007	Professionalism and values	2	2	3						
	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	3 rd Semester	Lecture	T/P/D/CT	Credit	Sum	Theory	Practical	Theory	Practical	Total
Founda- tion 7		General Pathology	2	2	3	6	40	40	10	10	100
		General Microbiology	2	2	3						
Core 5	BScRTT- 018	Oncology Science-II	2	0	5	5	80		20		100
Core 6	BScRTT- 019	Radiotherapy Equipment-I	3	5	8	8	80	80	20	20	200
Founda- tion 8	BScRTT- 008	Research Methodology & Biostatistics	3	2	4	4	80	0	20	0	100
					23						500
Paper	Module	4 th 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

Ruchi *Deep* *SSingh* *Punita* *Polina* *Sankit* *SSingh* *Princy* *Shweta* *do*

4th Year of complete one year Internship

A student can only start internship after clearing all papers of 1st to 6th semester as per the prescribed pass/promotion rules by CMT, SGPIMS, 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
2	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

Shakti
 Poonima Singh
 S Singh
 Sushil
 Polini Singh
 Rishi
 Anurag
 Anurag
 Anurag
 Anurag