

STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME

SCHOOL NAME - Royal School of Medical & Allied Sciences

DEPARTMENT NAME - Radiography & Advance Imaging Technology

PROGRAMME NAME - B.Sc in Radiography & Advance Imaging Technology

Total Credits (8 Semesters) = 173

Clinical Posting = 5th Semester

Internship/Apprenticeship = 7th & 8th Semesters

Session = 2025-26

1 st SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDITS	L-T-P
Major (Core)	RIT242M101/ RIT242M111	Human Anatomy-I(T&L)	100	3	2-0-1
Major (Core)	RIT242M102/ RIT242M112	Human Physiology-I (T&L)	100	3	2-0-1
Major (Core)	RIT242M103	Biochemistry-I (T)	100	3	3-0-0
Interdisciplinary (IDC)	IKS992K101	IKS-I	100	3	3-0-0
Ability Enhancement course (AEC)	CEN982A101 / BHS982A102	Communicative English and Behavioral Science-I	100	2	2-0-0
Skill Enhancement Course (SEC)	RIT242S103	Hospital Duty & Patient Care-I	100	3	3-0-0
Value Added Course (VAC)	VAC-1	To be selected from the pool of courses offered	100	3	3-0-0
SWAYAM Course		MOOCs course (Swayam)	100	3	3-0-0
TOTAL CREDIT FOR 1 st SEMESTER				23	
2 nd SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDITS	L-T-P
Major (Core)	RIT242M201/RI T242M211	Human Anatomy-II (T&L)	100	3	2-0-1

Major (Core)	RIT242M202/RI T242M212	Human Physiology-II (T&L)	100	3	2-0-1
Major (Core)	RIT242M103	Biochemistry-II (T)	100	3	3-0-0
IDC	IKS992K201	IKS-2	100	3	3-0-0
AEC	CEN982A201 &BHS982A202	Communicative English and Behavioral Science-II	100	2	2-0-0
SEC	RIT242M203	Biochemistry-II(T)	100	3	3-0-0
VAC	VAC-2	Selected from the pool of courses offered	100	3	3-0-0
SWAYAM Course		MOOCs course (Swayam)	100	3	3-0-0
TOTAL CREDIT FOR 2nd SEMESTER				23	
3rd SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major (Core)	RIT242M311	Basic Physics	200	4	2-0-2
Major (Core)	RIT242M302	Physics of Radiology	200	4	3-1-0
Major (Core)	RIT242M313	Radiographic Technique-I	200	4	0-0-8
IDC		Selected from the pool of courses offered	200	3	3-0-0
AEC	CEN982A301& BHS982A302	Communicative English and Behavioral Science-III	200	2	2-0-0
SEC	RIT242S303	Medical Law & Ethics	200	3	3-0-0
SWAYAM Course		MOOCs course (Swayam)	200	3	3-0-0
TOTAL CREDIT FOR 3rd SEMESTER				23	
4th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDIT	L-T-P
Major (Core)	RIT242M401	Radiation Hazards & Protection	200	4	3-1-0
Major (Core)	RIT242M412	Radiographic Technique-II	200	4	0-0-8
Major (Core)	RIT242M403	Basics of Mammography & Fluoroscopy	200	3	3-0-0
Major (Core)	RIT242M414	Special Radiographic Procedures	200	4	0-0-8
AEC	CEN982A401 &BHS982A402	Communicative English and Behavioral Science-IV	200	2	2-0-0

SWAYAM Course		MOOCs course (Swayam)	200	3	3-0-0
TOTAL CREDIT FOR 4th SEMESTER				20	
5th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVE L	CREDI T	L-T-P
Major (Core)	RIT242M501	Computed Tomography	300	4	3-1-0
Major (Core)	RIT242M502	Darkroom Technique	300	4	3-1-0
Major (Core)	RIT242M513	Computer Skills	300	4	0-0-8
Major (Core)	RIT242M504	Basics of Ultrasound and ECG	300	4	3-1-0
Clinical Posting	RIT242M524	Clinical Posting	300	4	0-0-8
TOTAL CREDIT FOR 5th SEMESTER				20	
6th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVE L	CREDI T	L-T-P
Major (Core)	RIT242M601	Magnetic Resonance Imaging	300	4	3-1-0
Major (Core)	RIT242M602	Orientation in Clinical Sciences	300	4	3-0-0
Major (Core)	RIT242M603	Basics of Radiotherapy	300	4	3-1-0
Major (Core)	RIT242M604	Interventional Radiology	300	4	3-1-0
Major (Core)	RIT242M605	Biostatistics & Research Methodology	300	4	3-1-0
TOTAL CREDIT FOR 6th SEMESTER				20	
7th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVE L	CREDI T	L-T-P
Major (Core)	RIT242M711	Techniques of Routine X-rays	400	4	0-0-8
Major (Core)	RIT242M712	Techniques of Special X-rays	400	4	0-0-8
Major (Core)	RIT242M713	Techniques of Computed Tomography	400	4	0-0-8
Major (Core)	RIT242M714	Techniques of Ultrasound	400	3	0-0-6

Major (Core)	RIT242M715	Techniques of Mammography & Fluoroscopy	300	3	0-0-6
TOTAL CREDIT FOR 7th SEMESTER				18	
8th SEMESTER					
COMPONENT	COURSE CODE	COURSE TITLE	LEVEL	CREDITS	L-T-P
Major (Core)	RIT242M811	Techniques of MRI	400	7	0-0-12
Major (Core)	RIT242M812	Techniques of Hybrid Imaging	400	7	0-0-12
Project / Dissertation	RIT242M821	Research Project/Dissertation	400	12	0-0-24
TOTAL CREDIT FOR 8th SEMESTER				26	