

STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME

ROYAL SCHOOL MEDICAL & ALLIED SCIENCES

B.Sc. Radiography and Advance Imaging Technology (Honours / Honours with Research)

(AY 2024-25)

COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M101/ RIT242M111	Human Anatomy-I(T&L)	3
Major (Core)	RIT242M102/ RIT242M112	Human Physiology-I (T&L)	3
Minor	RIT242N101	Introduction to Radiography	3
Interdisciplinary (IDC)	IKS992K101	IKS-I	3
Ability Enhancement course (AEC)	CEN982A101 / BHS982A102	Communicative English and Behavioral Science-I	2
Skill Enhancement Course (SEC)	RIT242S101	Biochemistry	3
Value Added Course (VAC)	VAC-1	To be selected from the pool of courses offered	3
TOTAL CREDIT FOR 1st SEMESTER			20
2nd SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M201/RIT 242M211	Human Anatomy-II (T&L)	3
Major (Core)	RIT242M202/RIT 242M212	Human Physiology-II (T&L)	3
Minor	RIT242N201	Basics of Anatomy & Physiology	3
IDC	IKS992K201	IKS-2	3
AEC	CEN982A201 &BHS982A202	Communicative English and Behavioral Science-II	2
SEC	RIT242S201	Hospital Duty & Patient Care	3
VAC	VAC-2	Selected from the pool of courses offered	3
TOTAL CREDIT FOR 2nd SEMESTER			20
3rd SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT

Major (Core)	RIT242M311	Basic Physics	4
Major (Core)	RIT242M312	General Radiographic Technique	4
Major (Core)	RIT242M303	Darkroom Technique	4
AEC	CEN982A301&B HS982A302	Communicative English and Behavioral Science-III	2
SEC	RIT242S303	Computer Skills	3
IDC	RIT242I301	Selected from the pool of courses	3
TOTAL CREDIT FOR 3rd SEMESTER			20
4th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M401	Physics of Radiology	4
Major (Core)	RIT242M412	Special Radiographic Procedures	4
Major (Core)	RIT242M403	Radiation Hazards & Protection	4
Major (Core)	RIT242M404	Patient Care Management	3
Major (Core)	RIT242M405	Basics of Pathology	3
AEC	CEN982A401 &BHS982A402	Communicative English and Behavioral Science-IV	2
TOTAL CREDIT FOR 4th SEMESTER			20
5th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M501	Computed Tomography	4
Major (Core)	RIT242M502	Techniques of Mammography & Fluoroscopy	4
Major (Core)	RIT242M503	Basics of Ultrasound	4
Major (Core)	RIT242M504	Pharmacology	4
Major (Core)	RIT242M505	Medical Law & Ethics	4
TOTAL CREDIT FOR 5th SEMESTER			20
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M601	Magnetic Resonance Imaging	4
Major (Core)	RIT242M602	Basics of Radiotherapy	4
Major (Core)	RIT242M603	Biostatistics & Research Methodology	4
Major (Core)	RIT242M604	Interventional Radiology	4
Internship	RIT242M624	Clinical Posting	4
TOTAL CREDIT FOR 6th SEMESTER			20
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT

Major (Core)	RIT242M711	Techniques of Routine X-rays	5
Major (Core)	RIT242M712	Techniques of Special X-rays	4
Major (Core)	RIT242M713	Techniques of Ultrasound	4
Major (Core)	RIT242M714	Techniques of Mammography	4
Major (Core)	RIT242M715	Techniques of Fluoroscopy	4
TOTAL CREDIT FOR 7th SEMESTER			21
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M811	Techniques of CT	7
Major (Core)	RIT242M812	Techniques of MRI	8
Project / Dissertation	RIT242M823	Research Project/Dissertation	12
TOTAL CREDIT FOR 8th SEMESTER			27

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Internship/

Session = 2024-25

Total Credits (8 Semesters) = 168

Clinical Posting = 6th Semester

Internship/Apprenticeship = 7th & 8th Semesters

STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME

ROYAL SCHOOL MEDICAL & ALLIED SCIENCES

B.Sc. - Radiography and Advance Imaging Technology (Honours / Honours with Research)

(AY 2025-26)

COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M101/ RIT242M111	Human Anatomy-I(T&L)	3
Major (Core)	RIT242M102/ RIT242M112	Human Physiology-I (T&L)	3
Major (Core)	RIT242M103	Biochemistry-I (T)	3
Interdisciplinary (IDC)	IKS992K101	IKS-I	3
Ability Enhancement course (AEC)	CEN982A101 / BHS982A102	Communicative English and Behavioral Science-I	2
Skill Enhancement Course (SEC)	RIT242S101	Hospital Duty & Patient Care-I	3
Value Added Course (VAC)	VAC-1	To be selected from the pool of courses offered	3
SWAYAM Course		MOOCs course (Swayam)	3
TOTAL CREDIT FOR 1st SEMESTER			23
2nd SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M201/RIT 242M211	Human Anatomy-II (T&L)	3
Major (Core)	RIT242M202/RIT 242M212	Human Physiology-II (T&L)	3
Major (Core)	RIT242M103	Biochemistry-II (T)	3
IDC	IKS992K201	IKS-2	3
AEC	CEN982A201 &BHS982A202	Communicative English and Behavioral Science-II	2
SEC	RIT242M201	Hospital Duty & Patient Care-II	3

VAC	VAC-2	Selected from the pool of courses offered	3
SWAYAM Course		MOOCs course (Swayam)	3
TOTAL CREDIT FOR 2nd SEMESTER			23
3rd SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M311	Basic Physics	4
Major (Core)	RIT242M302	Physics of Radiology	4
Major (Core)	RIT242M313	Radiographic Technique-I	4
IDC		Selected from the pool of courses offered	3
AEC	CEN982A301&B HS982A302	Communicative English and Behavioral Science-III	2
SEC	RIT242S303	Medical Law & Ethics	3
SWAYAM Course		MOOCs course (Swayam)	3
TOTAL CREDIT FOR 3rd SEMESTER			23
4th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M401	Radiation Hazards & Protection	4
Major (Core)	RIT242M412	Radiographic Technique-II	4
Major (Core)	RIT242M403	Basics of Mammography & Fluoroscopy	3
Major (Core)	RIT242M414	Special Radiographic Procedures	4
AEC	CEN982A401 &BHS982A402	Communicative English and Behavioral Science-IV	2
SWAYAM Course		MOOCs course (Swayam)	3
TOTAL CREDIT FOR 4th SEMESTER			20
5th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M501	Computed Tomography	4
Major (Core)	RIT242M502	Darkroom Technique	4
Major (Core)	RIT242M513	Computer Skills	4
Major (Core)	RIT242M504	Basics of Ultrasound and ECG	4
Clinical Posting	RIT242M524	Clinical Posting	4
			20

6th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M601	Magnetic Resonance Imaging	4
Major (Core)	RIT242M602	Orientation in Clinical Sciences	4
Major (Core)	RIT242M603	Basics of Radiotherapy	4
Major (Core)	RIT242M604	Interventional Radiology	4
Major (Core)	RIT242M605	Biostatistics & Research Methodology	4
TOTAL CREDIT FOR 6th SEMESTER			20
7th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M711	Techniques of Routine X-rays	4
Major (Core)	RIT242M712	Techniques of Special X-rays	4
Major (Core)	RIT242M713	Techniques of Computed Tomography	4
Major (Core)	RIT242M714	Techniques of Ultrasound	3
Major (Core)	RIT242M715	Techniques of Mammography & Fluoroscopy	3
TOTAL CREDIT FOR 7th SEMESTER			18
8th SEMESTER			
COMPONENT	COURSE CODE	COURSE TITLE	CREDIT
Major (Core)	RIT242M811	Techniques of MRI	7
Major (Core)	RIT242M812	Techniques of Hybrid Imaging	7
Project / Dissertation	RIT242M821	Research Project/Dissertation	12
TOTAL CREDIT FOR 8th SEMESTER			26

Session = 2025-26
Total Credits (8 Semesters) = 173
Clinical Posting = 5th Semester
Internship/Apprenticeship = 7th & 8th Semester

