

B.Sc Radiology and imaging Technology

| I Year | | Course Titles | Hours | | |
|-------------|------------|---|--|------------------|--------------|
| | | | Theory | Practical | Total |
| | Semester-I | | Healthcare Delivery System in India ** | 40 | -- |
| | | Basic Computers, English and Communication Soft skills** | 50 | 20 | 70 |
| | | Medical Terminology, Law, Ethics, Record keeping & Quality Patient Care | 60 | -- | 60 |
| | | Human Anatomy | 60 | 20 | 80 |
| | | (PRACTICALS) Human Anatomy | -- | 40 | 40 |
| | | Clinical Education – I (Conventional Radiography Part – I) | -- | 180 | 180 |
| | | Total | 210 | 260 | 470 |
| Semester-II | | | Course Titles | | |
| | | | Theory | Practical | Total |
| | | Human Physiology | 60 | 20 | 80 |
| | | Basics Physics including Radiological Physics | 60 | -- | 60 |
| | | Radiographic Positioning & Image Processing Technique | 100 | -- | 100 |
| | | Environmental Studies | 60 | -- | 60 |
| | | PRACTICALS – Positioning Radiography | -- | 100 | 100 |
| | | Clinical Education – I (Conventional Radiography Part – I) | -- | 80 | 80 |
| | | Total | 280 | 200 | 480 |

| II Year | | Course Titles | Hours | | |
|-------------|--------------|---|--------------------------------|------------------|--------------|
| | | | Theory | Practical | Total |
| | Semester-III | | Special Radiography Procedures | 60 | -- |
| | | Radiation Detection, Measurement and Protection | 60 | -- | 60 |
| | | Basic Microbiology & Pathology | 60 | 20 | 80 |
| | | Basic Biochemistry & Pharmacology | 60 | 20 | 80 |
| | | PRACTICALS – Special Radiographic Procedures | -- | 100 | 100 |
| | | Clinical Education – III (Special Radiology procedures) | -- | 120 | 120 |
| | | Total | 240 | 260 | 500 |
| Semester-IV | | Course Titles | | | |
| | | | Theory | Practical | Total |
| | | Computed Tomography | 60 | 50 | 110 |
| | | Physic of Imaging Equipment's | 60 | -- | 60 |
| | | Quality Control in Radiology and Radiation Safety | 60 | -- | 50 |
| | | PRACTICALS – Computed Tomography Procedures | -- | 100 | 100 |
| | | Clinical Education – IV (CT) Studentship | -- | 180 | 180 |
| | Total | 180 | 270 | 500 | |

| | | Course Titles | Hours | | |
|--|-------------|--|---------------|------------------|----------------------------|
| | | | Theory | Practical | Total |
| | | | III Year | Semester-V | Magnetic Resonance Imaging |
| Modern Imaging Technology | 60 | 40 | | | 100 |
| Public Administration | 40 | -- | | | 40 |
| PRACTICALS – Magnetic Resonance Imaging | -- | 100 | | | 100 |
| Clinical Education – V (MRI) Studentship | -- | 120 | | | 120 |
| Total | 160 | 310 | | | 470 |
| III Year | Semester-VI | Course Titles | | | |
| | | | Theory | Practical | Total |
| | | Interventional Imaging Technology & Ultrasonography | 90 | -- | 90 |
| | | Research Methodology, Biostatistics & Principles of Management and Act, rules & regulations of Radiology | 80 | -- | 80 |
| | | Seminars, Journal club & Group Discussions | 30 | 60 | 90 |
| | | Project (Medical Imaging Techniques) | -- | 50 | 50 |
| | | Clinical Education – VI (Medical Radiography) Studentship | -- | 150 | 150 |
| Total | 200 | 260 | 460 | | |

Seventh & Eighth Semesters (INTERNSHIP)

| Course Titles | Hours | | |
|--|--------|-----------|-------|
| | Theory | Practical | Total |
| Radiology and Imaging Technology – Internship | 0 | 1080 | 1080 |

INTERNSHIP – Minimum 1080 hours (6-hours a day with 180 working days in a year)

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

| Sl. No. | Postings | Duration |
|---------|-----------------------------------|----------|
| 1 | Conventional radiography | 2 months |
| 2 | Radiographic special procedures | 2 months |
| 3 | CR, DR and PACS | 2 months |
| 4 | Computed Tomography | 2 months |
| 5 | Magnetic Resonance Imaging | 2 months |
| 6 | Ultrasonography & Doppler Imaging | 1 month |
| 7 | Advanced and Modern Imaging | 1 month |