



C. U. SHAH UNIVERSITY
FACULTY OF SCIENCES
C. U. Shah Institute of Life Sciences

Post Graduate diploma in Medical Imaging and Radiology Technology [PGDMIRT]

SEMESTER: - 2

CODE: - 2SC02INR1

NAME: - Instrumentation in radiology

COURSE CONTENT

- Digital radiography and computed radiography
- Substraction angiography (dsa)
- Computed tomography (spiral and multislice)
- Ultra sonograohy and colour doppler(basics)
- Magnetic resonance imaging and mra
- CT-CSAN
- MRI
- Mammography
- Echo-cardiography

PRACTICAL :- Eight to ten excurses based on theory



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SEMESTER: - 2

CODE: - 2SC02RCM1

NAME: - Radiography and contrast media

COURSE CONTENT

UNIT-I

Introduction to Radiography
Patents and role of General Radiographer

UNIT-II

Regional Radiography: Upper Limb-Fingers, Hand, Carpal Tunnel, Wrist Joint, Fore arm, Elbow Joint Head of Radius and Ulna, Humerus, Shoulder Joint, Acromio-calvicular joint, Scapula, Sterno-clavicular joint

Lower Limb-Toes, Foot, Calcaneum, Intercondylar Notch, Ankle Joint, Tibia and Fibula, Patella, Knee joint, Femur Hip & Pelvis

Skull, Cranium, facial bones. temporal Bone, temporal Bone, temporo - mandibular joints, mandible, Paranasal Sinuses.

UNIT-III

Vertebral Column-Cervical Spine, Thoracic spine, Lumber spine, Sacrum, Coccyx Chest- lung fields and heart, diaphragm, Sternum, Adomen- Gastro - intestinal tract, urinary tract, Skeletal Survey,

UNIT-IV

Contrast media- Ionic, Non ionic, Barium, Negative.

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SEMESTER: - 2

CODE: - 2SC02RPS1

NAME: - Radiation protection and Safety

COURSE CONTENT

UNIT-I

Introduction of various Hazards- Ionization chamber, GM and Scintillation Counter, Measuring radiation dose, Absorption co-efficient, grid, cones and filter, Inverse square law scattered radiation radio activity, curie, half life, decay factor

UNIT-II

Doses, film Badge, Pocket dosimeter and TLD, Maximum permissible Dose

UNIT-III

Principle and Method of Protection, Ten days rule, personal protection and shielding, Leakage Limits, Radiation Risk Biological effects of Radiation

UNIT-IV

Protective Barrier Design, Transport of Radiation materials, Radiation Emergencies.

PRACTICAL :- Eight to ten excurses based on theory.



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SEMESTER: - 2

CODE: - 2SC02COE1

NAME: - Communicative English

Sr. No.	Course Content
1	Prerequisites
2	Basic Concepts of Grammar: <ul style="list-style-type: none">- Parts of Speech- Basic Sentence Patterns- Tenses- Active Voice & Passive Voice- Vocabulary Building
3	English in Correspondence: <ul style="list-style-type: none">- Writing Letters, Memorandum, Circulars
4	Resume Writing
5	Skills in Technical Writing: <ul style="list-style-type: none">- Technical Description- Writing Medical Reports / Lab reports etc.
6	Presentation Skills