DETAILED SYLLABUS

FOR

DISTANCE EDUCATION

Under Graduate Degree Program

BACHELOR OF SCIENCE – RADIO IMAGING TECHNOLOGY
(BRIT)

(SEMESTER SYSTEM)
# FIRST SEMESTER

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**NOTE:**

Theory Paper : 30% Continuous Internal Assessment and 70% University examination. Practical Paper : 30% Continuous Internal Assessment and 70% University examination

Continuous Internal assessment:
1) Two or three tests out of which two Internal Assessment will be considered for Assessment
2) Seminars/Assignment/Quizzes Internal Assessment
3) Attendance class participation and behavior Internal Assessment
COURSE CONTENTS:

1) Introduction of Bones of the Human Body of:

Upper Limb, clavicle, scapula, humerus, radius, ulna, carpus, metacarpus and phalanges
Lower Limb: hipbone, femur, tibia, fibula, tarsus, metatarsus and phalanges
Skull: nante the bones of skull and sutures between them
Thorax: ribs and their articulations
Vertebral Column: cervical, thoracic, lumber, sacral and cocasial vertebrae

2) Surface Land Marks of the Human Body

- Anterior land marks
- Posterior land marks
- Regions of Abdomen
- Quadrants of Hip

3) Introduction of different Vital Organs:

A) Respiratory Organs

- Nasopharynx
- Oropharynx
- Larynx
- Trachea
- Bronchi
- Lungs and their lobular segments
- Thoracic cavity
- Pleurae

B) Circulatory Organs

- Anatomical position of the Heart
- Pericardium
- Chambers of the heart
- Valves of the heart
- Great vessels of the heart

C) Digestive Organs:

- Tongue
- Teeth
- Oral cavity
• Pharynx
• Oesophagus
• Stomach
• Small intestine
• Large intestine

PRACTICAL :

Labeled Diagrams of different organs and bones
Viva

BRIT – 120 PHYSIOLOGY

Maximum Time : 3hrs
Total marks :100
University Assessment – 80%
Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS :

1) Cell
   • Definition
   • Structure and functions the Cytoplasmic Organelles
   • Reproduction Meiosis, Mitosis

2) The important physico-chemical laws applied to physiology
   • Diffusion
   • Osmosis
   • Bonding
   • Filtration
   • Dialysis
   • Surface Tension
   • Adsorption
   • Colloid

2) Fundamentals of different Organ Systems
   • Cardiovascular System
   • Respiratory system
   • Digestive system
   • Excretory system
   • Reproductive system
   • Endocrine system
   • Lymphatic system

PRACTICAL :

Diagram of different Vital Organs
Viva

BRIT – 130  PATHOLOGY

Maximum Time : 3hrs University Assessment – 80%
Total marks : 100 Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS:

1. Pathology –
   - Introduction
   - State of Cell
   - Inflammation
   - Metabolism of cell and disorders
   - Cause of disease
   - Diseased state
   - Degeneration

2. Immunity & Hypersensitivity
   - Introduction
   - Infection
   - Healing
   - Electrolyte movements
   - Pathogenesis of disease

3. Blood supply to organs and disease due to non supply of blood

4. Fluid and haemodynamic derangement :
   - Derangement of body fluids and electrolytes
   - Haemodynamic disorders due to deranged blood volume
   - Haemodynamic disorders of obstructive nature
   - Ischaemia and infraction

5. Growth disorders and Heoplasia
   - Neoplasia
   - Tumouts
   - Histopathology of diseases

6. Pathology of Biliary tract and excretory system
Maximum Time : 3hrs    University Assessment – 80%
Total marks :100     Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS:

A) Instructions for paper-setter
1. The question paper will consist five sections namely A, B, C, D and E.
2. Each of the sections A, B, C and D will contain two questions and candidates have to attempt at least one question compulsorily from each section. Each section carry 15% of the total marks
3. Section E will comprise of 10-15 short answers type questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for candidates
1. Candidates are required to attempt one question each from sections A, B, C and D of the question paper and the entire section E.
2. Use of non-programmable scientific calculator is allowed

SECTION A
1. Grammar
A brief review of easy form of tenses. Conversion of direct narration into indirect form of narration and vice versa (only simple sentences). Punctuation.

SECTION B
2. Corresponding : (Official, Business And Personal)
One Letter from each category (Official, Business and Personal) may be set in the examination paper and the students be asked to write one of them.

SECTION C
Written Communication
report, notices, agenda notes, business correspondence preparation of summary & prices.

Communication Techniques
Importance of communication
One way and two way communication
Essentials of good communication
Methods of communication, oral, written and non-verbal
Barriers to communication
Techniques of overcoming barriers
Concept of effective communication
SECOND SEMESTER

BRIT – 210 PHYSICS

Maximum Time : 3hrs  University Assessment – 80%
Total marks :100  Internal Assessment – 20%

Minimum Pass Mark – 40%

COURSE CONTENTS:

1. Physics
   - Introduction
   - Measurements
   - Basic Units
   - Derived Units
   - Structure of atom

2. Electromagnetic Induction (Self & mutual)
   - AC and DC generator
   - Rectification
   - Transformers
   - Capacitance/capacitance

3. Properties of X-Ray
   - Thermoionic / photoelectric emissions
   - Conductor and conductance
   - Light intensity
   - HT Cable
   - Radioactivity

BRIT-220 GENERATION AND PROPERTIES OF X-RAY

Maximum Time : 3hrs  University Assessment – 80%
80%
Total marks :100  Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS:

INTRODUCTION:

- Properties and Production of X-Ray
- Electric system, Components and Control in X-Ray circuit
• Basic X-Ray circuits transformers laws and types used in X-ray machine. The rectification of high tension, control of kilo voltage, filament circuit ad tube current

• Exposure switches and timers and its radiographic application
• X-Ray tubes fixed and rotating anodes and faults in X-Ray tubes
• Imageintesifier/fluoroscopic eqipme nt, dentalradiographic equipments

Clinical Lab:
• X-ray tubes general features and mobile equipments.
• Care and maintenanceof X-ray equipment and image intensifier
• To study effects of KV and MAS

BRIT – 230 RADIATION HAZARDS & PROTECTION

Maximum Time : 3hrs University Assessment – 80%
Total marks : 100  Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS :

1. Introduction of various Hazards
   • Ioniation chamber, m GM and Scintillation Counter
   • Measuring radiation dose
   • Absorption co-efficient, grid, cones and filter
   • Inverse square low scattered radiation radio activity, curie, half life, decay factor

2. Doses, film Bodge, Pocket Ionization chamber
   Maximum permissible Dose

3. Principle and Method of Protection

PRACTICAL

• Dark Room Procedure
• Equipments
• Developing Technique
• Fixing Technique
COURSE CONTENTS:

1. Patents and role of General Radiographer

2. Regional Radiography:
   a) Upper Limb – (30 Hours)
      i) Fingers
      ii) Hand, Carpal Tunnel
      iii) Wrist Joint
      iv) Fore arm
      v) Elbow Joint
      vi) Head of Radius and Ulna
      vii) Humerus
      viii) Shoulder Joint
      ix) Acromio-calvicular joint
      x) Scapula
      xi) Sterno-clavicular joint
   
   b) Lower Limb – (20 Hours)
      i) Toes
      ii) Foot
      iii) Calcaneum
      iv) Intercondylar Notch
      v) Ankle Joint
      vi) Tibia and Fibula
      vii) Patella
      viii) Knee Joint
      ix) Femur
   
   c) Hip and Pelvis (20 Hours)
      i) Theatre procedure for Hip Pinning and Reduction
      ii) Pelvis
      iii) Sacro iliac Joint
      iv) Pelvis Bone
      v) Acetabulum
THIRD SEMESTER

BRIT – 310 ANATOMY

Maximum Time : 3hrs  University Assessment – 80%
Total marks :100  Internal Assessment – 20%

Minimum Pass Mark – 40%

COURSE CONTENTS:

1. Reproductive Organ:
   • Male and female cCongds: Testes, Epidiymis, Ovary, Fallopian Tubes, Uterus, Vagina etc.
   • Introduction of male Genital Organs
   • Introduction of female Genital Organs

2. Liver and Spleen:
   • Introduction
   • Anatomical Position
   • Gall Bladder

3. Excretory Organs
   • Introduction of Kidney
   • Ureter
   • Urinary ladder
   • Urethra (male and female)

4. Muscles
   • Introduction
   • Origin and insertion of muscles
   • Function

PRACTICAL:
Labeled diagram of different organs and bones Viva.
COURSE CONTENTS:

1. Blood
   - Introduction
   - Composition
   - Function

2. Formation of different type of Blood Cells
   - Erythrocytes
   - Leucocytes
   - Thrombocytes

3. Mechanism of Blood Clotting

4. Cerebrospinal Fluid:
   - Composition
   - Formation
   - Function

5. Special Senses
   - Hearing
   - Taste
   - Smell
   - Touch
   - Sight

PRACTICAL:

Diagram of Corpuscles
Viva
COURSE CONTENTS:

1. Special procedure and related Contrast Media
   - Contrast Media
   - Emergency in Radiology Department
   - Excretory System
     - IVP
     - RGU
     - MCUG
   - Oral Cholecystography
   - Percutaneous Transepatic Cholangiography
   - G. I. Tract
     - Braium Swallow
     - Barium Meal Series
     - Barium Meal Follow Through
     - Barium Enema
       - Hystero Salpingography
       - Angiography
       - Tomography

2. Guideline for design and location of X-ray equipments

3. Dark Room designing
   - Outline structure of Dark Room
   - Material used
   - Miscellaneous

PRACTICAL:

1. Radiography in various positions for all the special radiological procedures, using contrast media as per syllabus.
2. Positioning and treatment of various cancer patients by using
   - Prescribed filterssand wedges
   - Protecting various organs
COURSE CONTENTS:

A) Instructions for paper-setter
1. The question paper will consist five sections namely A, B, C, D and E.
2. Each of the sections A, B, C and D will contain two questions and candidates have to attempt at least one question compulsorily from each section. Each section carry 15% of the total marks.
3. Section E will comprise of 10-15 short answers type questions, which will cover the entire syllabus and will carry 40% of the total marks.

B) Instructions for candidates
1. Candidates are required to attempt one question each from sections A, B, C and D of the question paper and the entire section E.
2. Use of non-programmable scientific calculator is allowed.

SECTION A
1. Grammar
A brief review of easy form of tenses. Conversion of direct narration into indirect form of narration and vice versa (only simple sentences). Punctuation.

SECTION B
2. Corresponding : (Official, Business And Personal)
One Letter from each category (Official, Business and Personal) may be set in the examination paper and the students be asked to write one of them.

SECTION C
Written Communication
report, notices, agenda notes, business correspondence preparation of summery & prices.

Communication Techniques
Importance of communication
One way and two way communication
Essentials of good communication
Methods of communication, oral, written and non-verbal
Barriers to communication
Techniques of overcoming barriers
Concept of effective communication
FOURTH SEMESTER

BRIT – 410  ULTRASOUND

Maximum Time : 3hrs  University Assessment – 80%
Total marks :100  Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS :

1. Ultra Sound
   - Principle of Ultra Sound
   - Types of Ultra Sound
   - Equipments description
   - Indication and Clinical Application

PRACTICAL
Applications of various procedures in well equipped Hospitals and Diagnostics Centers

BRIT – 420  CT SCAN

Maximum Time : 3hrs  University Assessment – 80%
Total marks :100  Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS :

2. C. T. Scan
   - Basic principle of CT scan
   - Equipment’s description
   - Conventional CT
   - Indications and Contra Indications

PRACTICAL
Applications of various procedures in well equipped Hospitals and Diagnostics Centers

BRIT – 430  MRI

Maximum Time : 3hrs  University Assessment – 80%
Total marks :100  Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS :

MRI
   - Basic Principle
   - Equipment’s description

PRACTICAL
Applications of various procedures in well equipped Hospitals and Diagnostics Centers
BRIT - 440 COMPUTER SKILL – A

Maximum Time : 3 Hrs. University Examination : 70 Marks
Total Marks : 100 Continuous Internal Assessment : 30 Marks
Minimum Pass Marks : 40%

A) Instructions for paper-setter
The question paper will consist of five sections A, B, C and D. Sections A, B and C will have two questions from the respective sections of the syllabus and will carry 15% marks each. Section D will have 10-20 short answer type questions which will cover the entire syllabus uniformly and will carry 40% marks in all.

B) Instructions for candidates
1. Candidates are required to attempt one question each from sections A, B and C of the question paper and the entire section D.
2. Use of non-programmable scientific calculator is allowed.

SECTION A
Internet - Evolution, Protocols, Interface Concepts, Internet Vs Intranet, Growth of Internet, ISP.
Connectivity- Dial-up, Leased line, VSAT etc., URLs, Domain names, Portals.
E-MAIL - Concepts, POP and WEB Based E-mail , merits, address, Basics of Sending & Receiving, E-mail Protocols, Mailing List, Free Email services.

SECTION B

SECTION C


Reference:
FIFTH SEMESTER

BRIT – 510 DOPPLER & ECHO CARDIOGRAPHY

Maximum Time : 3hrs University Assessment – 80%
Total marks :100 Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS:

1. Equipments and description
2. Colour Doppler Flow Imaging
3. Indication
4. Preparation and Technique
5. Clinical Application

PRACTICAL

Application of various procedures in well equipped Hospitals and Diagnostic Centers

BRIT – 520 CT SCAN

Maximum Time : 3hrs University Assessment – 80%
Total marks :100 Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS:

1. Advancement in CT
2. Spiral CT
3. Preparation of Patient
4. Contrast Media
5. Indication and Contraindication
6. Technical Aspects of various procedures in CT

PRACTICAL

Application of various procedures in well equipped Hospitals and Diagnostic Centers
COURSE CONTENTS:

1. Preparation of Patients
2. Contrast Media
3. Indication and Contraindication
4. Clinical Application
5. Procedure
6. MR Angiography

PRACTICAL

Application of various procedures in well equipped Hospitals and Diagnostic Centers
A) Instructions for paper-setter
The question paper will consist of five sections A, B, C and D. Sections A, B and C will have two questions from the respective sections of the syllabus and will carry 15% marks each. Section D will have 10-20 short answer type questions which will cover the entire syllabus uniformly and will carry 40% marks in all.

B) Instructions for candidates
1. Candidates are required to attempt one question each from sections A, B and C of the question paper and the entire section D.
2. Use of non-programmable scientific calculator is allowed.

SECTION A
Input and Output units: Their functional characteristics, main memory, cache memory read only memory, overview of storage devices – floppy disk, hard disk, compact disk, tape.
Computer Networks and Communication: Network types, Network topologies, Network communication devices, Physical communication media, TCP/IP.
Internet and its Applications: E-mail, Telnet, FTP, WWW, Internet chatting

SECTION B

SECTION C
Html - Concepts of Hypertext, Versions of HTML, Elements of HTML syntax, Head & Body Sections, Building HTML documents, Inserting texts, Images, Hyperlinks, Backgrounds and Color controls, Different HTML tags, Table layout and presentation, Use of font size & Attributes, List types and its tags, Use of Frames and Forms in web pages. Overview of MS FrontPage, Macromedia Dream weaver, and other popular HTML editors, designing web sites using MS FrontPage (using at least FrontPage 2000)

Reference:-
SIXTH SEMESTER

BRIT – 610  NUCLEAR MEDICINE & PET SCAN

Maximum Time : 3hrs  University Assessment – 80%
Total marks :100  Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS:
1. Nuclear Medicines, PET scan and Mammography
   A. Definition
   B. Characteristic of Radio Nuclide
   C. Commonly used Radio Nuclides
   D. Description of Equipments

BRIT – 620  INTERVENTIONAL RADIOLOGY

Maximum Time : 3hrs  University Assessment – 80%
Total marks :100  Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS:
1. Interventional Radiology
   A. Definition
   B. Indication
   C. Clinical Application
   D. Name of different type of Procedures

BRIT – 630  ANAESTHESIA IN DIAGNOSTIC RADIOLOGY

Maximum Time : 3hrs  University Assessment – 80%
Total marks :100  Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS:
1. Facilities regarding general Anaesthesia in the X-ray Deptt.
2. Anaesthetic Problems associated with specific technique –
   A. Vascular Studies
   B. Carotid Angiography
   C. Venography
   D. T and NMR

BRIT – 640  PROJECT REPORT

Maximum Time : 3hrs  University Assessment – 80%
Total marks :100  Internal Assessment – 20%
Minimum Pass Mark – 40%

COURSE CONTENTS: