

RADIODIAGNOSIS

Course Content

Second / III-I/ III-II MBBS

Subject : Radio Diagnosis Theory / Practical

(Based on Medical Council of India, Competency based Undergraduate curriculum for the Indian Medical Graduate, 2018. Vol. 2 / 3; page nos. 161 to166)

1. Total Teaching hours :20

A. Lectures (hours): 10

B. Self directed learning (hours) : 2

C. Small group teachings/tutorials/Integrated teaching/Practicals (hours): 8 hours

D. Clinical Postings (hours): 2 weeks (3hours /day x 12 days Monday to Saturday

Term I/II

A. Lectures/ Large Group Teachings Total Number of Competencies: 13
In institutes where radiotherapy facility is available 2 hours will be allotted to Radiotherapy department. Time Table in these institutes will be prepared by Radio Diagnosis and Radiotherapy department in joint collaboration

| Serial No. | Competency Nos. | Topics & Subtopics | Suggested Teaching Method | Hours | Vertical Integration | Horizontal Integration |
|------------|-----------------|---|---------------------------|-------|----------------------|------------------------|
| LEC 1 | RD1.1 | Define radiation and the interaction of radiation and importance of radiation protection | Lecture, Demonstration | 1 | | |
| | RD1.2 | Describe the evolution of Radiodiagnosis. Identify various radiological equipmentsIn the current era | | | | |
| | | | | | | |
| LEC 2 | RD1.3 | Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and | Lecture, Demonstration | 1 | | ENT |

| Serial No. | Competency Nos. | Topics & Subtopics | Suggested Teaching Method | Hours | Vertical Integration | Horizontal Integration |
|------------|-----------------|---|---------------------------|-------|----------------------|--------------------------|
| | | interpret findings in common conditions pertaining to disorder of ENT | | | | |
| LEC 3 | RD1.4 | Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Ob & Gy | Lecture, Demonstration | 1 | | Obstetrics & Gynaecology |
| | RD1.12 | Describe the effects of radiation in pregnancy and the methods of prevention/ minimization of radiation exposure | | | | |
| | RD1.13 | Describe the components of the PC & PNDT Act and its medicolegal implications | | | | |
| LEC 4 | RD1.5 | Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in internal medicine | | | | Medicine |
| LEC 5 | RD1.6 | Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to | | | | Surgery |

| Serial No. | Competency Nos. | Topics & Subtopics | Suggested Teaching Method | Hours | Vertical Integration | Horizontal Integration |
|--|-----------------|---|---------------------------|-------|----------------------|--------------------------|
| | | disorders in surgery | | | | |
| LEC 6 | RD1.7 | Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Pediatrics | | | | Pediatrics |
| LEC 7 | RD1.8 | Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to common malignancies | | | | All clinical departments |
| LEC 8 | RD1.9 | Describe the role of Interventional Radiology in common clinical conditions | | | | All clinical departments |
| LEC 9 | RD1.10 | Describe the role of Emergency Radiology, miscellaneous & applied aspects, interaction with clinical departments | | | | All clinical departments |
| LEC 10 | RD1.11 | Describe preparation of patient for common imaging procedures | Lecture, Demonstration | | | All clinical departments |
| B – Self Directed Learning 2 hours | | | | | | |

| Serial No. | Competency Nos. | Topics & Subtopics | Suggested Teaching Method | Hours | Vertical Integration | Horizontal Integration |
|------------|--|---|-----------------------------------|-------|----------------------|--------------------------|
| Serial No. | Competency No. | Topics & Sub Topics | Suggested Teaching Method | Hours | Vertical Integration | Horizontal Integration |
| SDL 1 | RD1.5 | Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in internal medicine | Small group discussion, Quiz, etc | 1 | | All clinical departments |
| | RD1.10 | Describe the role of Emergency Radiology, miscellaneous & applied aspects, interaction with clinical departments | Small group discussion, Quiz, etc | | | |
| SDL 2 | RD1.4 | Enumerate indications for various common radiological investigations, choose the most appropriate and cost effective method and interpret findings in common conditions pertaining to disorder in Ob & Gy | Small group discussion, Quiz, etc | 1 | | Obstetrics & Gynaecology |
| | RD1.13 | Describe the components of the PC & PNDT Act and its medicolegal implications | | | | |
| | RD1.1 | Define radiation and the interaction of radiation and importance of radiation protection | | | | |
| C | C. Small group teachings/tutorials/Integrated teaching/Practicals(hours): 8 hours | | | | | |
| Serial No. | Competency No. | Topics & Sub | Suggested | Hours | Vertical | Horizontal |

| Serial No. | Competency Nos. | Topics & Subtopics | Suggested Teaching Method | Hours | Vertical Integration | Horizontal Integration |
|------------|---|--|--|-------|----------------------|---|
| | | Topics | Teaching Method | | Integration | Integration |
| SGT 1 | AN20.6, AN25.7, AN43.7, AN43.9, AN51.1, AN51.2, IM7.18 | Identify anatomical parts on radiographic images | Lecture/ Small group discussion | 3 | | Anatomy & All Clinical Departments |
| SGT 2 | AN25.8, AN54.2 | Role of Barium Studies in gastro Intestinal Tract Evaluation | Lecture/ Small group discussion | 3 | | Medicine, Surgery |
| SGT 3 | FM1.9 | Medicolegal aspects in Radiology | Lecture/ Small group discussion | 1 | | Forensic Medicine |
| SGT 4 | IM1.19, IM3.7, IM3.11, M13.12, PE34.8, PE23.13 | Role of Radiology in Chest Diseases | Lecture/ Small group discussion | 1 | | Medicine, Pediatrics |
| SGT 5 | SU25.3 | Role of Radiology in Breast Diseases | Lecture/ Small group discussion | 1 | | Surgery |
| SGT 6 | PE28.17 | Role of Radiology in Ear Nose Throat and Eye Diseases | Lecture/ Small group discussion | 1 | | ENT & Ophthalmology |
| SGT 7 | IM10.19, PE21.12, IM10.19, AN54.2 | Role of Radiology in Diseases of the Genito Urinary System | Lecture/ Small group discussion | 1 | | Medicine |
| SGT 8 | IM19.7, PE30.23, IM6.12, AN43.7, AN43.8, AN43.9 | Role of Radiology in Central Nervous System | Lecture/ Small group discussion | 1 | | Medicine, Surgery, Pediatrics, |

| Serial No. | Competency Nos. | Topics & Subtopics | Suggested Teaching Method | Hours | Vertical Integration | Horizontal Integration |
|------------|--|--|--|-------|----------------------|-------------------------|
| | | Diseases | | | | |
| D | D. Clinical Postings(hours): 2 weeks (3hours /day x 12 days Monday to Saturday. In institutes where radiotherapy facility is available 6 hours will be allotted to Radiotherapy department. Time Table in these institutes will be prepared by Radio Diagnosis and Radiotherapy department in joint collaboration | | | | | |
| CP 1 | RD1.1 RD1.2 | Introduction to All modalities under Radiodiagnosis and Radiation Protection. | Lecture, Demonstration, Small group teaching | 1 | | |
| CP 2 | RD1.5 | Role of Radiology in Chest Conditions lungs and heart | Lecture, Demonstration, Small group teaching | | | Medicine and Pediatrics |
| CP 3 | RD1.6 | Role of Radiology in Abdominal Conditions hepatobiliary system and Gastrointestinal System | Lecture, Demonstration, Small group teaching | 3 | | Surgery |
| CP 4 | RD1.6 | Role of Radiology in Abdominal Conditions - Genitourinary system | Lecture, Demonstration, Small group teaching | 3 | | Surgery |
| CP 5 | RD1.4 & RD 1.5 | Role of Radiology in Obstetrics and Gynaecology | Demonstration, Small group teaching | 3 | | Obstetrics & Gynecology |
| CP 6 | RD1.6 | Role of | Demonstration, | 3 | | Orthopedics |

| Serial No. | Competency Nos. | Topics & Subtopics | Suggested Teaching Method | Hours | Vertical Integration | Horizontal Integration |
|------------|-----------------|---|-------------------------------------|-------|----------------------|------------------------|
| | | Radiology in Musculoskeletal system | Small group teaching | | | |
| CP 7 | RD1.6 | Role of Radiology in Diseases of Central Nervous System | Demonstration, Small group teaching | 3 | | All clinical Branches |
| CP 8 | RD1.2 | Basic Principles of Computed Tomography | Demonstration, Small group teaching | 3 | | |
| CP 9 | RD1.2 | Basic Principles of Magnetic Resonance Imaging | Demonstration, Small group teaching | 3 | | |
| CP 10 | RD1.1 | Radiation Hazards and Radiation Protection | Demonstration, Small group teaching | 3 | | |
| CP 11 | RT | Radiotherapy related topics | Radiotherapy related topics | 3 | | |
| CP 12 | RT | Radiotherapy related topics | Radiotherapy related topics | 3 | | |

Learning Resource Material

| Sr.no. | Author | Title of book/ Material | Publisher |
|--------|------------------|---|-----------|
| 1 | David Sutton | Text Book of Radiology and Medical Imaging for Medical Students Seventh Edition | Elsevier |
| 2 | David Sutton | Text Book of Radiology & Imaging Students Seventh Edition | Elsevier |
| 3 | Grainger Allison | Diagnostic Radiology | Elsevier |

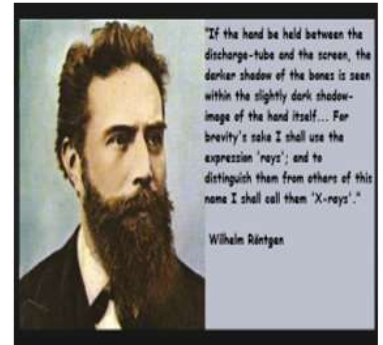


Name of the Institute



LOG BOOK

DEPARTMENT OF RADIO DIAGNOSIS



CONTENTS

| Sr. No. | Subject | Page No. |
|--------------------|---|---------------------|
| 1 | LOGBOOK CERTIFICATE | 04 |
| 2 | RECORD OF INTERNAL ASSESSMENT EXAMINATIONS | 05 |
| 3 | SELF DIRECTED LEARNING / TUTORIALS / SEMINARS / EXTRA CURRICULAR ACTIVITIES | 06 |
| 4 | LIST OF COMPETENCIES | 08 |
| 5 | PHASE III/I | 10 |

RADIODIAGNOSIS LOGBOOK CERTIFICATE

This is to certify that this logbook is the bonafide record of Mr. /
Ms..... Roll No.....
Admission Year, of the Department of RadioDiagnosis at
..... Medical
College.

The logbook is as per the guidelines of Competency Based Undergraduate
Medical Education Curriculum, Graduate Medical Regulation 2019.

He / She has satisfactorily attended/ completed all assignments mentioned in this
logbook as per the guidelines prescribed by National Medical Commission.

Head of Department
Department of Radio Diagnosis
Signature with Date

INTERNAL ASSESSMENT EXAMINATION IN RADIO DIAGNOSIS

Please refer General Surgery Syllabus (available on <https://www.muhs.ac.in/upload/syllabus/Third%20MBBS%20General%20Surgery%20Syllabus%20030621.pdf>) for details internal assessment in radio diagnosis.

Format / Skeleton of question paper for University

Please refer General Surgery Syllabus (available on <https://www.muhs.ac.in/upload/syllabus/Third%20MBBS%20General%20Surgery%20Syllabus%20030621.pdf>) for details question paper for university in radio diagnosis.

Self-Directed Learning: Seminars, Tutorials, Projects, Quizzes, Extra-curricular activities

| Sr. No. | Self- directed learning (Seminars, Tutorials, Projects, Quizzes, Extracurricular activities) | Date | Phase III/I | Signature of Teacher |
|----------------|---|-------------|------------------------|-------------------------------------|
| 1 | | | | |
| 2 | | | | |

Reflection (minimum 200 words) –1

Date:

TOPIC:

LOGBOOK CLINICAL SKILLS : LIST OF COMPETENCIES

Clinical skills can be assessed by case presentation, case-based discussion, objective structured clinical assessment the checklist, MiniCex, as per the institutional preference.

| Sr. No | Competencies Addressed | Name of the Activity |
|---------------|-------------------------------|--|
| 1 | PE21.12 | How will you interpret a KUB Report? |
| 2 | PE23.13 | How will you report a Chest radiograph and rule out cardiomegaly? |
| 3 | PE23.16 | How will you use the ECHO reports in management of case of Cardiac disease ? |
| 4 | PE30.23 | How will you interpret CT scan and MRI Report? |

Radiotherapy

For theory Competencies to be included in Surgery & Radiology Syllabus

Clinical Postings-3 days where ever department exists