

Master Syllabus

RAT 2644 - Applications of Sectional Imaging

Division: Health Sciences

Department: Radiologic Technology

Credit Hour Total: 2.0

Lecture Hrs: 2.0

Prerequisite(s): RAT 2641OR RAT 2643

Other Prerequisite(s): AND Approval of Department

Date Revised: January 2016

Course Description:

Sectional imaging applications including patient preparation, positioning, imaging protocol, instrumentation and archiving.

General Education Outcomes:

- Critical Thinking/Problem Solving Competency

Course Outcomes:

Image appearance of pathologies

Identify various diseases on computed tomography and magnetic resonance images.

Assessment Method: Locally developed exams

Performance Criteria:

71% or higher achieved

Patient care considerations

Identify and describe patient care considerations to include patient history and preparation, infection control, patient assessment and emergency care.

Assessment Method: Locally developed exams

Performance Criteria:

71% or higher achieved

Contrast media

Describe related contrast media used in CT, MRI and MRA studies.

Assessment Method: Locally developed exams

Performance Criteria:

71% or higher achieved

Safe equipment practice

Describe the principles of safe practice when using CT and MRI equipment.

Assessment Method: Locally developed exams

Performance Criteria:

71 % or higher achieved

Instrumentation

Describe CT and MRI instrumentation to include console manipulation, image production and protocol, archiving, troubleshooting artifacts, and maintenance.

Assessment Method: Locally developed exams

Performance Criteria:

71% or higher achieved

Outline:

Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) imaging considerations specific to various body systems

Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) applications

Contrast media considerations for CT and MRI procedures

Safe practice and patient care related to CT and MRI procedures