Course Specifications

General Information

Course name	Quality Control
Course number	AMSR4374
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - Review components of a quality assurance (QA) program and show how they apply to diagnostic radiology *

2 - Understand how some conventional tests should be modified for a digital radiographic system integrated into an electronic image management system

3 - Identify key references and standards that can be useful in QA of DR

Intended Learning Outcomes

Knowledge and Understanding

* 1. Differentiate between quality assurance and quality control concepts
* 2. Describe basic quality control tests specific to film-based imaging and wet chemical processing
* 3. Describe basic quality control tests of radiographic, fluoroscopic, ancillary and digital image processing equipment
* 4. Acquire familiarity with quality control testing equipment
* 5. Describe the purposes and techniques used to monitor and record image repeat rates in film-screen and digital imaging environments
* 6. Describe the basic operation of a computed radiographic (CR) image processor
* 7. Utilize resources to apply the knowledge and skills necessary for employment as an entry-level radiography position

Course Contents

1 - In this course the student will be familiar with the factors which improve the image quality as well as methods use to test the performance of the medical imaging machines

Students Assessment

Assessment Method	TIME	MARKS
First mid term	after the first month	20
second mid term	after the second month	20
attendance	the whole semister	5
quiz	during the seventh week	5
Final exam	the end of semister	50

Books and References

Course note	• Mills, G. (2014). Action research: A guide for the teacher researcher 3rd Ed. Upper Saddle River, NJ: Pearson
Essential books	• Creighton, T.B. (2001). Schools and data: The educator's guide for using data to improve decision making. Thousand Oaks, CA: Corwin Press