Course Specifications

General Information

Course name	Digital Imaging
Course number	AMSR4278
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - Have a full Knowledge about digital imaging equipment & how to using workstation component & storage media
2 - Process film using a digital methods (sampling, gray level histogram, Fourier transformer, image enhancemen
3 - Have ability of working & easy deals with networking and interfacing(data formats, PACS, data quality, DICOM, order communication
4 - Have a theoretical experience of using CR & DR equipments

Intended Learning Outcomes

Knowledge and Understanding	* Understand technical and aesthetic differences between traditional and digital IMAGING
	* Develop an understanding and knowledge in Digital IMAGING
Professional Skills	* Demonstrate proper digital processing techniques in production of IMAGING
General Skill	* Develop knowledge in design concepts for Digital IMAGING

Course Contents

1 - A brief history of radiography & computers
2 - Radiology information system
3 - Image quality & quality assurance
4 - Common preset functions & parameters
5 - Practical experiences of using computed & digital radiology equipment

Teaching and Learning Methods

1 - Power point notes
2 - lectures notes
3 - Short visit to hospitals

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 fifth week	5
Final exam	the end of semister	50

Books and References

Essential books	Digital Imaging: A Primer for Radiographers, Radiologists and Health Care By Jason Oakley
Recommended books	Digital imaging - Edited by / Jason Oakley