

Kingdom of Saudi Arabia

T6. Course Specifications (CS)



Course Specifications

Institution: Najran University	Date: 31-03-2017
College/Department : Applied medical sciences / Radiological sciences	

A. Course Identification and General Information

1. Course title and code: Special Radiographic Investigations, 324 RAD-3			
2. Credit hours : 3 (2+1)			
3. Program(s) in which the course is offered. : Bachelor of Radiological sciences (If general elective available in many programs indicate this rather than list programs)			
4. Name of faculty member responsible for the course Mr. Albosairi T. Ahmed (male section) Dr. Samia A. Fathelrhman (Faculty member in the female student section)			
5. Level/year at which this course is offered : level 5 / 3rd year			
6. Pre-requisites for this course (if any): Basic of General Radiographic Investigation (223 RAD-3)			
7. Co-requisites for this course (if any): None			
8. Location if not on main campus : Main campus			
9. Mode of Instruction (mark all that apply)			
a. traditional classroom	<input checked="" type="checkbox"/>	What percentage?	100
b. blended (traditional and online)	<input type="checkbox"/>	What percentage?	<input type="text"/>
c. e-learning	<input type="checkbox"/>	What percentage?	<input type="text"/>
d. correspondence	<input type="checkbox"/>	What percentage?	<input type="text"/>
f. other	<input type="checkbox"/>	What percentage?	<input type="text"/>
Comments: The lecture involves : Practice good presentation techniques Effective questioning Students discussion			

B Objectives

<p>1. What is the main purpose for this course?</p> <p>At the end of this course student should be able to :</p> <ul style="list-style-type: none"> • Demonstrate the procedures to be followed in special radiologic investigations using contrast media. • Describe the composition of contrast media used for different tracts and parts of the human body • Discuss the risks of using contrast media and how to manage them. • Explain the special views /additional to be done to show more findings in special investigations . • Apply special radiographic investigations . <p>Judge the resultant images and learn how criticise them.</p>
<p>2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)</p> <ul style="list-style-type: none"> • Updating the textbooks. • Explain strategy of the course in the beginning of the semester. • Encourage the students to see more details in web sites and reference books in the library. • Regular feedback from students Discussing some selected problems in each chapter

C. Course Description (Note: General description in the form used in Bulletin or handbook)

<p>Course Description:</p> <p>This course provides an introduction to the use of radiographic special investigation techniques with and without contrast media.</p> <p>The course includes study of the different types of contrast media, their usage and different ways of introducing it through ducts, cavities and blood vessels and the risks expected from that and methods to avoid those risks and how to deal with if there. Also the usage of contrast media in radiographic techniques through the study different methods of special radiological investigations procedures that using contrast media e.g. Intra Venous Urography " I.V.U." and Oral Cholecystography "O.C.G."</p> <p>In addition study the additional and alternative radiographic techniques that applied for some body parts e.g. skull, vertebral column and chest in special projections other than those basic ones.</p>
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1. Topics to be Covered		
List of Topics	No. of Weeks	Contact hours
<ul style="list-style-type: none"> • Introduction: meaning and aim of special investigation • Contrast medium, composition and names. 	2	8
Contrast medium benefits and risks.	1	4
<ul style="list-style-type: none"> • Urinary tract investigations : I.V.U. • Urinary tract investigations, complementary e.g. Cystogram and retrograde 	2	8
• Hystro-salpingography and pelvimetry.	1	4
• Biliary Tract investigations	2	8
• Arthorography	1	4
• Bronchography	1	4
• Optic foramen	1	4
• TMJs	1	4
• Foramen Magnum	1	4
• Mastoids	1	4
• Jugular foramen	1	4

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory or Studio	Practical	Other:	Total
Contact Hours	30			30		60
Credit	2			1		3

3. Additional private study/learning hours expected for students per week.	2hrs/week
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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Code #	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Tell the aims of the special radiographic procedures .	<ul style="list-style-type: none"> Lectures, group discussion. Written & Practical exams. 	<ul style="list-style-type: none"> Oral questions Quizzes , Student presentations seminars and discussion
1.2	State the usage of contrast medium "when and how	<ul style="list-style-type: none"> Lectures, Demonstrations in the lab, group discussion. 	<ul style="list-style-type: none"> Oral questions Quizzes , Student presentations

			<ul style="list-style-type: none"> • seminars and discussion
1.3	Describe the procedures for U.T, biliary tract, genital organs of the female, Bronchography and Arthorography.	Lectures, Demonstrations in the lab, group discussion.	<ul style="list-style-type: none"> • Oral questions • Quizzes , • Student presentations <ul style="list-style-type: none"> • seminars and discussion and discussion
2.0	Cognitive Skills		
2.1	Analyse the radiographic anatomical appearances on the films.	Lectures, Demonstrations in the lab, group discussion	Oral questions Quizzes , Student presentations seminars and discussion
2.2	Explain how to protect himself and the patient from radiation.	Lectures, Demonstrations in the lab, group discussion	Oral questions Quizzes , Student presentations seminars and discussion
3.0	Interpersonal Skills & Responsibility		
3.1	Demonstrate cooperation with others during attending of classes.	<ul style="list-style-type: none"> • Practical in labs • Group-learning activity such as a seminars and tutorials. • Group discussion. • Cooperative learning 	<ul style="list-style-type: none"> • Practical exam. • Observation • Student presentation / seminar and discussion.
4.0	. Communication, Information Technology, Numerical		
4.1	Operate the different informational resources including the library resources and websites	<ul style="list-style-type: none"> • Practical in lab. ▪ Cooperative learning ▪ Self-learning to the global of information networks 	<ul style="list-style-type: none"> • Practical exam. • Observation check list • Student presentation / seminar and discussion.
5.0	Psychomotor		
5.1	Perform the operational and technical skills used in special radiographic investigations and the necessary radiation protection	<ul style="list-style-type: none"> ▪ Practical and Demonstration in lab. ▪ Group discussion 	<ul style="list-style-type: none"> • Practical exam. • Check list Observation



6. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	Mid-term written exam	7 th	20
2	Practical mid-term exam	8 th	10
3	Continuous assessment	During the course	10
4	Practical final exam	16 th	20
5	Final written exam	17 th	40
6	Total		100

D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

- Six office hours per week are offered to support students individually.
- Reachable via email.
- Personal web pages of academic members staff in university website.

E Learning Resources

1. List Required Textbooks :-

- Philip W. Ballinger, Eugene D. Frank, Vinita Merrill, Eugene D. Frank, Merrill's Atlas of Radiographic Positions & Radiologic Procedures: 3 Volume Set. Edition 10.

2. List Essential References Materials (Journals, Reports, etc.)

- Stewart Whitley, Adrian Moore, Chrissie Alsop, Charles Sloane, Graham Hoadley, Clarks

<p>Positioning in radiography, 12th edition (2005).</p> <ul style="list-style-type: none"> • K.Bontrager. Text book of radiographic positioning and related anatomy. Fifth edition, ISBN-13: 978-0323012195, 2001.
<p>3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)</p> <ul style="list-style-type: none"> • http://www.diagnosticimaging.com/ http://www.journals.elsevierhealth.com/
<p>4. List Electronic Materials, Web Sites, Facebook, Twitter, etc.</p> <ul style="list-style-type: none"> • https://www.e-radiology.net 1. https://www.wiki radiography.com
<p>5. Other learning material such as computer-based programs/CD, professional standards or regulations and software. Lab. Notes distributed to the students by the lecturer</p>

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)
<p>1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)</p> <ul style="list-style-type: none"> • Lecture room (8 x 15m) equipped with about 20 student seats, • Lab. (8 x 15 m) equipped with about 20 student seats.
<p>2. Computing resources (AV, data show, Smart Board, software, etc.)</p> <ul style="list-style-type: none"> • White Board, computer, Data Show , Overhead projector and laptop.
<p>3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)</p> <ul style="list-style-type: none"> • Library, and Seminar Room and Wi-Fi internet connections

G Course Evaluation and Improvement Processes

<p>1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching</p> <ul style="list-style-type: none"> • University online questionnaire for evaluation the course by students. • Observing the students opinions recorded in the college student site. • Appeal & suggestions box.

<p>2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department</p> <p>Teaching is evaluated through:</p> <ul style="list-style-type: none"> • Student assessments • Evaluation of head department • Self-evaluation & the instructor responses • Annual course review- report prepared by course tutor • Periodic review and evaluation- external panel involved . • Peer teaching observation.
<p>3 Processes for Improvement of Teaching</p> <ul style="list-style-type: none"> • Regular updating- professional and training. • Staff to hold formal teaching qualifications. • Updating of teaching resources • Program learning outcomes are reviewed • Independent evaluation of the program • Workshops held by skills development unit • Annual reports of External Examiner
<p>4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)</p> <ul style="list-style-type: none"> • Check marking by an independent faculty member . • Check marking of assignment by peer review
<p>5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.</p> <ul style="list-style-type: none"> • Regular course team meetings and comprehensive annual review and planning (by department staff) • Study the results of the course learning outcome assessment • Continuous support and monitoring by learning & teaching committee of quality and development deanship.



Name of Instructor: Mr. Albosairi T. Ahmed

Signature:

Date Report Completed: 17-07-1438 H

Program coordinator: Alfatih Hasan Mohamed Albadri

Signature:

Date: 19/07/1438 H

Name of Instructor: Dr. Samia Abdelgauom Ahmed

Signature:

Date Report Complete: 21/07/1438 H

Program Coordinator :Dr. Mawahib Sayed Ahmed Aldosh

Signature :

Date Received : 04/ 9/1438