

Kingdom of Saudi Arabia

**T6. Course Specifications
(CS)**

Course Specifications

Institution: Najran University	Date: 15-4-2017
College/Department : Applied medical sciences / Radiological sciences	

A. Course Identification and General Information

1. Course title and code: Fluoroscopy Techniques, 326 RAD-2			
2. Credit hours : 2 (1+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. Fadul Galal Ahmed (male section) Dr. Nagla Hussien (female section)			
5. Level/year at which this course is offered : level 6/ 3rd Year			
6. Pre-requisites for this course (if any): None			
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?	<input type="text" value="80%"/>
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 checked="" type="checkbox"/>	What percentage?	<input type="text" value="20%"/>
Comments: The lecture involves : Practice good presentation techniques Effective questioning Students discussion			

B Objectives

1. What is the main purpose for this course? By the end of this course the student will able to: <ul style="list-style-type: none"> Describe all fluoroscopy equipment, modes of operation and fluoroscopy suits. Explain the abdomen surface anatomy and landmarks. State the proper fluoroscopy techniques (Barium Studies) and discuss procedural indications, contraindications, contrast media dosage and administration. Explain the myelography techniques, and the use of lumbar puncture and alternative modalities. Describe the proper sialography techniques , Recognize the patient position, technical factors, and radiation protection.
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) <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. Discussing some selected problems in each chapter. Increased use of IT or web-based reference material Consistently change the reading list which may include refereed authentic articles electronically published

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

Course Description:
This component provides an introduction to understand the management of fluoroscopy equipment and the application of investigations done. This course provides students with study the accessories used in fluoroscopic imaging through the study of fluoroscopy equipment (accessories and managements). In addition study radiographic investigations using contrast media through the study of radiological investigations done under fluoroscopy such as Barium studies and Orthography.

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact hours
Introduction to the use of fluoroscopy equipment (<ul style="list-style-type: none"> fluoroscopes and fluoroscopy materials Image intensifier components and management Conventional and digital image chain	2	6

<ul style="list-style-type: none"> Modes of operation Image quality Fluoroscopy suites 	2	6
<ul style="list-style-type: none"> Surface anatomy of the Abdomen Abdomen positioning 	1	3
<ul style="list-style-type: none"> Radiographic positioning of the upper GIT series: <ul style="list-style-type: none"> Barium Swallow Barium Meal 	2	6
<ul style="list-style-type: none"> Radiographic positioning of the lower GIT series: <ul style="list-style-type: none"> Small Bowel Procedures <ol style="list-style-type: none"> Barium enema 	2	6
<ul style="list-style-type: none"> Myelography Fistulography 	2	6
<ul style="list-style-type: none"> Radiation protection during fluoroscopy 	2	6
<ul style="list-style-type: none"> Salivary Glands(Sialography) 	1	3
Revision	1	3

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory or Studio	Practical	Other:	Total
Contact Hours	15		30			45
Credit	1		1			2

3. Additional private study/learning hours expected for students per week.	2 hours / weeks
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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.)

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1-1	Describe the principles of radiographic imaging equipment and techniques for fluoroscopic exams.	Lectures Demonstration in lab Group discussions	Written mid and final written exam. Practical mid and final semester exam.
1-2	State the methods of patient preparation, patient care and protection during fluoroscopic exams.	Lectures Demonstration in lab Group discussions	Written mid and final written exam. Practical mid and final semester exam.
1-3	Recognize the appearance of human anatomy, physiology and pathology on fluoroscopic images.	Lectures Demonstration in lab Group discussions	Written mid and final written exam. Practical mid and final semester exam.
2.0	Cognitive Skills		
2.1	Estimate the procedures and protocols appropriate for fluoroscopic exams.	Lectures Demonstration in lab Group discussions	Written mid and final written exam. Practical mid and final semester exam.
2.2	Explain the essential sciences concepts necessary for applications	Lectures Demonstration in lab	Written mid and final written exam.

	of fluoroscopic exams.	Group discussions	Practical mid and final semester exam.
3.0	Interpersonal Skills & Responsibility		
3.1	Demonstrate ethical and legal manners during performance	Demonstration in lab Group discussions	Observation card for performance.
4.0	Communication, Information Technology, Numerical		
4-1	Operate effectively the different informational resources including the library resources and websites in addition to extracting information and data in fluoroscopic exams.	Practical in lab. Assignments	Observation card for performance
5.0	Psychomotor		
5-1	Perform accurately and safely the procedures in fluoroscopic exams.	Practical in lab. Assignments	Observation card for performance

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 evaluation	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

- Textbook of Radiographic positioning and related Anatomy. Kenneth L. Bontrager. John P. Lampugnano. - ISBN 13: 978-0-323-02507-2

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

- Textbook of Radiographic positioning and related Anatomy. Kenneth L. Bontrager. John P. Lampugnano. - ISBN 13: 978-0-323-02507-2

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

- CLARK'S POSITIONING IN RADIOGRAPHY - Stewart Whitley Charles Sloane Graham Hoadley Adrian D. Moore Chrissie W. Alsop- Hodder Arnold - ISBN 0 340 76390 6

4. List Electronic Materials, Web Sites, Facebook, Twitter, etc.

LARK'S POSITIONING IN RADIOGRAPHY - CD-ROM

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

Lab. Notes:

Will be distributed to the students by the lecturer

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 Peer review Evaluation of head department Self-evaluation & the instructor responses Course report is provided every semester and improvement plans due to these sources.
<p>3 Processes for Improvement of Teaching</p> <ul style="list-style-type: none"> Program learning outcomes are reviewed Courses specifications Student questionnaires

<ul style="list-style-type: none"> • Courses and program reports • 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 of final exam papers 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"> • Study the results of the course learning outcome assessment • The department provides continuous internal review. • Continuous support and monitoring by learning & teaching committee of quality and development deanship.



Name of instructor: FADUL GALAL AHMED

Signature:

Date Report Completed 03/07/1438H

Name of field experience teaching staff: FADUL GALAL AHMED

Signature:

Date Report Completed 03/07/1438H

Program coordinator: Alfatih Hasan Mohamed Albadri

Signature:

Date: 17/07/1438 H

Name of Instructor: Dr. Nagla Hussien

Signature:

Date Report Complete: 21/07/1438 H

Name of Course Instructor Dr. Nagla Hussien

Signature:

Date Report Complete: 21/07/1438 H

Program Coordinator :Dr. . Mawahib sayed ahmed Aldosh

Signature S التوقيع:

Date Received : 07/ 08/1438