

Course Specifications

Course Title:	Computerized Tomography Imaging Techniques
Course Code:	374317-3
Program:	Bachelor in Radiological Sciences
Department:	Department of Radiological Sciences
College:	College of Applied Medical Sciences
Institution:	Taif University







Table of Contents

A. Course Identification	
1. Mode of Instruction (mark all that apply)	3
7. Contact Hours (based on academic semester)	3
B. Course Objectives and Learning Outcomes	
1. Course Description	3
2. Course Main Objective	3
3. Course Learning Outcomes	4
C. Course Content4	
D. Teaching and Assessment5	
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods	5
2. Assessment Tasks for Students	6
E. Student Academic Counseling and Support6	
F. Learning Resources and Facilities6	
1. Learning Resources	6
2. Facilities Required	7
G. Course Quality Evaluation7	
H. Specification Approval Data7	

A. Course Identification

1. Credit hours: 3		
2. Course type		
a. University College Department $$ Others		
b. Required $$ Elective		
3. Level/year at which this course is offered: 7 th Level / 3 rd Year		
4. Pre-requisites for this course (if any):		
• Computerized Tomography Physics and Instrumentation (374222-3).		
• Pathology (374314-4).		
5. Co-requisites for this course (if any):		
None.		

1. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60	100%
2	Blended	-	-
3	E-learning	-	-
4	Distance learning	-	-
5	Other	-	-

7. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	30
2	Laboratory/Studio	30
3	Tutorial	-
4	Others (specify)	-
	Total	60

B. Course Objectives and Learning Outcomes

1. Course Description

The course is designed to develop knowledge and skills necessary to perform computerized tomography procedures that include, patient history and assessment, indications for procedure, patient education, scan preparation, preferred orientation and positioning, contrast media use, selectable scan parameters, scout image, filming and archiving of image. The imaging technique for each organ/ region to match the criteria for diagnostic image and modification of technique in clinical condition that affects image quality. Evaluation of image for any artifact, quality, anatomy and pathology. Assignment to CT facility to provide students with the opportunity to observe, assist and perform CT procedures under supervision and guidance of qualified CT specialist.

2. Course Main Objective

This course aims to estimate the appropriate CT procedures according to the patient condition, explain the purpose, indication, and necessary patient preparation for each type of CT examinations and illustrate effective communication skills with the patient and other health staff and explain the concepts of principle of each procedure to the patient.



3. Course Learning Outcomes

	CLOs		
1	Knowledge and understanding		
1.1	Summarize computerized tomography principles and recall the important patient preparation prior to computed tomography procedures.	K1	
2	Skills:		
2.1	Apply the appropriate technique according to the patient condition.	S 1	
2.2	Explain the purpose, indication, and necessary patient preparation for each type of CT examinations.	S4	
3	3 Values:		
3.1	Construct effective communication skills with the patient and other health staff and explain the concept principles of each procedure to the patient.	V2	

C. Course Content

No	List of Topics	Contact Hours
1	 Introduction: a. CT Components. b. Generations. c. CT image windowing. d. Artifacts. e. Procedure's element. f. Contrast Media. Practical session. Chapter: (1, 2, 3, 12, 13) - Pages 03 - 40 and 120 - 142 (Textbook 1). 	6
2	 CT Skull Techniques (1). Practical session. Chapter: 15 - Pages 183 - 204 (Textbook 1). 	6
3	 CT Skull Techniques (2). Practical session. Chapter 19 - Pages 239 - 250 (Textbook 1). 	6
4	 CT Skull Techniques (3). Practical session. Chapter 19 - Pages 251 - 266 (Textbook 1). 	6
5	 CT Neck. Practical session. Chapter 16 - Pages 204 - 214 (Textbook 1). 	6
6	 Trunk CT (1): a. Chest Scan. Practical session. Chapter 20 - Pages 267 – 299 (Textbook 1). 	6

7	 Trunk CT (2): a. Abdomen. Practical session. Chapter 21 - Pages 300 - 324 (Textbook 1). 	6
8	 Trunk CT (3): a. Pelvis Scan. Practical session. Chapter 21 - Pages 325 - 335 (Textbook 1). 	6
9	 Musculoskeletal CT. Vertebral Column: a. Cervical spine. b. Thoracic spine. c. Lumbar spine. Practical session. Chapter: (17 – 22) - Pages 215 - 224 and 335 - 345 (Textbook 1). 	6
10	 Advanced CT techniques. Practical session. Chapter: 23 - Pages 345 - 348 (Textbook 1). 	6
Total		60

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding		
1.1	Summarize computerized tomography principles and recall the important patient preparation prior to computed tomography procedures.	Lectures	Written exams
2.0	Skills:		
2.1	Apply the appropriate technique according to the patient condition.	Lectures Small group discussion	Written exams Practical exam
2.2	Explain the purpose, indication, and necessary patient preparation for each type of CT examinations.	Lectures Small group discussion	Written exams Practical exam
3.0	Values:		
3.1	Construct effective communication skills with the patient and other health staff and explain the concept principles of each procedure to the patient.	Self-learning	Presentation

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Mid-term written exam	5 th	30%
2	Presentation	8 th	10%
3	Final practical exam	10 th	20%
4	Final written exam	$11^{th} - 12^{th}$	40%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for the availability of faculty and teaching staff for individual student consultations and academic advice:

Faculty members are available for individual consultation. They usually dedicate 12 hours weekly for office hours and students are encouraged to visit them for help. Appointments can also be made in person with the faculty through email or phone. Faculty provide a range of academic and course management advice. Each student has an academic adviser who offers personal, academic, psychological, and professional counseling, as well as group counseling to support the academic, behavioral, emotional, psychological, and social growth of students.

F. Learning Resources and Facilities

1. Learning Resources

1. Learning Resources	
Required Textbooks	Computed Tomography for Technologist: a comprehensive text Lois E. Romans. 1st Edition Publisher: Wolters Kluwer Health Lippincott Williams & Wilkins ISBN: 978-0-7817-7751-3 Published Date: 2011
Essential References Materials	Computed tomography: physical principles, clinical applications, and quality control. Euclid Seeram. 3rd edition. Publisher: Elsevier ISBN: 978-1-4160-2895-6 Published Date: 2009
Electronic Materials	 Link for the course at Blackboard Learn Portal on Taif university webpage (<u>https://lms.tu.edu.sa/webapps/login/</u>). Saudi Digital Library (SDL) on Taif University website (through the Electronic Services portal - academic systems services).
Other Learning Materials	None.

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classroom with 20 seats.
Technology Resources (AV, data show, Smart Board, software, etc.)	Blackboard. Projector.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	Videos.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching	Program Leaders	Direct
Extent of achievement of course learning outcomes	Faculty	Direct
Quality of learning resources	Student, Faculty	Indirect
Course management and planning	Students	Indirect
Teaching and interaction with students	Students	Indirect
Effectiveness of Evaluation and exams	Students, peer review	Direct, Indirect

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	DEPARTMENT COUNCIL
Reference No.	11 TH
Date	24 th MAY 2022





Course Specifications

Course Title:	Pathology
Course Code:	374314 -4
Program:	Bachelor in Radiological Sciences
Department:	Department of Radiological Sciences
College:	College of Applied Medical Sciences
Institution:	Taif University







Table of Contents

A. Course Identification	
1. Mode of Instruction (mark all that apply)	3
2. Contact Hours (based on academic semester)	3
B. Course Objectives and Learning Outcomes	
1. Course Description	3
2. Course Main Objective	3
3. Course Learning Outcomes	4
C. Course Content4	
D. Teaching and Assessment5	
1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods	5
2. Assessment Tasks for Students	5
E. Student Academic Counseling and Support6	
F. Learning Resources and Facilities6	
1. Learning Resources	6
2. Facilities Required	7
G. Course Quality Evaluation7	
H. Specification Approval Data7	

A. Course Identification

1. Credit hours: 4			
2. Course type			
a.UniversityCollegeDepartmentPOthers			
b. Required P Elective			
3. Level/year at which this course is offered: 7 th level / 3 rd year			
4. Pre-requisites for this course (if any): Physiology (374224-4).			
5. Co-requisites for this course (if any): None.			

1. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60	%100
2	Blended	-	-
3	E-learning	-	-
4	Distance learning	-	-
5	Other	-	-

2. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	60
2	Laboratory/Studio	-
3	Tutorial	-
4	Others (specify)	-
[Total	60

B. Course Objectives and Learning Outcomes

1. Course Description

This course will cover the basic pathological aspects of diseases in the form of (etiology, predisposing factors, and pathogenesis. morphologic changes as well as fate and prognosis). Also, the course cover the main general diseases as inflammations, neoplasia, cell injuries and process and types of healing and repair as well as the common systems diseases.

2. Course Main Objective

The main purpose of this course is that the student will be able to gain proper knowledge about general and systemic diseases, identify the pathological basis of diseases. Also be able to describe the structural disturbances in the form of gross and microscopic changes and interpret specific physical signs and symptoms, specific diagnostic radiological findings, common complications, and preferred treatment.



3. Course Learning Outcomes

	CLOs	Aligned PLOs
1	Knowledge and understanding	
1.1	List etiologies, pathogenesis, clinical significances, complications, and prognosis of general diseases.	K1
1.2	Describe the morphologic changes of the diseases in the form of gross and microscopic images.	K1
1.3	Explain the mechanism of diseases, and their structural and functional disturbances.	K1
2	Skills:	
2.1	Build an interpretation of inflammatory, neoplastic, and other general system diseases process in terms of physical and radiological changes involvement.	S2
2.2	Analyze the local and general factors that adversely affect prognosis of diseases.	S3
3	Values:	
3.1	Improve effective communication skills with colleagues in work as a team in performing tasks.	V2

C. Course Content

No	List of Topics	Chapter No. in Essentials of Rubin's Pathology Emanuel Rubin; Howard M. Reisner 5 th Edition.	Page No. in Essentials of Rubin's Pathology Emanuel Rubin; Howard M. Reisner 5 th Edition.	Contact Hours
1	 Introduction to Pathology. Acute and Chronic inflammation. 	2	18-35	6
2	 Healing and Repair. Circulatory Disturbances. 	3	36-52	6
3	Cell injury: a. Cell death. b. Cell degeneration.	1	1-17	6
4	Disturbances of growth. a. Adaptation. b. Neoplasia.	5	71-91	6
5	Diseases of the breast and female genital system.	18 19	396-424 425-431	6
6	Diseases of urinary system.	16-17	350-377	6
7	1. Diseases of GIT	13	274-308	6

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	2. Diseases of Liver and biliary system.	14	309-340	
8	Diseases of cardiovascular system.	10 11	195-215 216-243	6
9	Diseases of respiratory system.	12	244-273	6
10	Diseases of bone and joints.	26	535-572	6
	Total			60

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods	
1.0	Knowledge and understanding			
1.1	List etiologies, pathogenesis, clinical significances, complications, and prognosis of general diseases.	Lectures	Midterm exam and Final exam	
1.2	Describe the morphologic changes of the diseases in the form of gross and microscopic images.	Lectures	Midterm exam and Final exam	
1.3	Explain the mechanism of diseases, and their structural and functional disturbances.	Lectures	Midterm exam and Final exam	
2.0	Skills:			
2.1	Build an interpretation of inflammatory, neoplastic, and other general system diseases process in terms of physical and radiological changes involvement.	Lectures Problem-solving Small group discussion	Exams and case study assignment	
2.2	Analyze the local and general factors that adversely affect prognosis of diseases.	Lectures Problem-solving Small group discussion	Exams and case study assignment	
3.0	Values:			
3.1	Improve effective communication skills with colleagues in work as a team in performing tasks.	Collaborative Learning Self-learning	Presentation	

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Midterm exam.	5 th	30%
2	Activity.	9 th	10%
3	Final exam.	11 th - 12 th	60%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice:

Faculty members are available for individual consultation. They usually dedicate 12 hours weekly for office hours and students are encouraged to visit them for help. Appointments can also be made in person with the faculty through email or phone. Faculty provide a range of academic and course management advice. Each student has an academic adviser who offers personal, academic, psychological, and professional counseling, as well as group counseling to support the academic, behavioral, emotional, psychological, and social growth of students.

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	 Essentials of Rubin's Pathology Emanuel Rubin; Howard M. Reisner 5th Edition. 2009 Copyright: Lippincott Williams. ISBN: 978-07817-7324-9 Master Medicine: General and Systematic Pathology By: Paul Bass; Susan Burroughs; Norman Carr; Claire Way 3rd Edition 2009 Publisher: Elsevier Limited ISBN: 9780080451299 eText ISBN: 9780702048142, 0702048143
Essential References Materials	None.
Electronic Materials	 Websites, Search engines (Saudi Digital Library, PubMed, Google Scholar) 1- E-Learning: Video tapes (audio-visual) 2- www.WHO.com
Other Learning Materials	 Journals, Scientific Magazines, and Articles. Pathology Journal – Elsevier The American Journal of Pathology Pathology Journal Online Journal in Pathology – MDLinx Diagnostic Pathology Journal

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Classrooms.
Technology Resources (AV, data show, Smart Board, software, etc.)	Data show, Blackboard and A/V.
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	None.

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching	Program Leaders	Direct
Extent of achievement of course learning outcomes	Faculty	Direct
Quality of learning resources	Student, Faculty	Indirect
Course management and planning	Students	Indirect
Teaching and interaction with students	Students	Indirect
Effectiveness of Evaluation and exams	Students, peer review	Direct, Indirect

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify) Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	DEPARTMENT COUNCIL
Reference No.	11 TH
Date	24 th MAY 2022





Field Experience Specifications

Course Title:	Clinical Practice in Radiography (1)	
Course Code:	374318-3	
Program:	Bachelor in Radiological Sciences	
Department:	Radiological Sciences	
College:	Applied Medical Sciences	
Institution:	Taif University	







Table of Contents

A. Field Experience Identification	
B. Learning Outcomes, and Training and Assessment Methods	
1. Field Experience Learning Outcomes	3
2. Alignment of Learning Outcomes with Training Activities and Assessment Methods	3
3. Field Experience Learning Outcomes Assessment	4
a. Students Assessment Timetable	4
b. Assessment Responsibilities	4
C. Field Experience Administration5	
1. Field Experience Locations	5
a. Field Experience Locations Requirements	5
b. Decision-making procedures for identifying appropriate locations for field experience	5
2. Supervisory Staff	5
a. Selection of Supervisory Staff	5
b. Qualification and Training of Supervisory Staff	5
3. Responsibilities	5
a. Field Experience Flowchart for Responsibility	5
b. Distribution of Responsibilities for Field Experience Activities	6
4. Field Experience Implementation	7
a. Supervision and Follow-up Mechanism	7
b. Student Support and Guidance Activities	7
5. Safety and Risk Management	8
D. Training Quality Evaluation8	
E. Specification Approval Data8	

A. Field Experience Identification

1. Credit hours: 3

2. Level/year at which this course is offered: 7th Level / 3rd Year

3. Dates and times allocation of field experience activities.

- Number of weeks: (10) week.
- Number of days: (10) day.
- Number of hours/semesters: (90) hour.

4. Pre-requisites to join field experience (if any):

Patient Care and Ethics in Radiology (374216-2).

General Radiographic Techniques and Radiographic Anatomy (1) (374221-4). Diagnostic Radiography Instrumentation (374226-3).

B. Learning Outcomes, and Training and Assessment Methods

1. Field Experience Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge and understanding	
1.1	-	-
2	Skills:	
2.1	Apply the radiographic procedure (for upper and lower extremities, vertebral spine, and bony thorax) in a skilled and safe way.	S4
2.2	Choose appropriate technique with proper care according to the patient's condition.	S1
2.3	Inspect images accurately to create high quality images for upper and lower extremities, vertebral spine, and bony thorax.	S2
2.4	Analyze informed decisions about clinical practice within the accepted departmental protocols.	S3
2.5	Take part in operating X-ray machine properly.	S5
3	Values:	
3.1	Adapt the ethical profession as honesty, respect, patient care and infection control.	V1
3.2	Demonstrates the basic radiation protection and safety measures for patients, radiographer, and other health staff.	V2

2. Alignment of Learning Outcomes with Training Activities and Assessment Methods

Code	Learning Outcomes	Training Methods/Activities	Assessment Methods
1.0	Knowledge and understanding		
1.1	-	-	-
2.0	Skills		
2.1	Apply the radiographic procedure (for upper and lower extremities, vertebral spine, and bony thorax) in a skilled and safe way.	Problem solving Problem-based learning Practical Training	Case study Practical Exam OSPE
2.2	Choose appropriate technique with proper care according to the patient's condition.	Problem solving Problem-based learning Practical Training	Case study Practical Exam OSPE

Code	Learning Outcomes	Training Methods/Activities	Assessment Methods
2.3	Inspect images accurately to create high quality images for upper and lower extremities, vertebral spine, and bony thorax.	Problem solving Problem-based learning Practical Training	Case study Practical Exam OSPE
2.4	Analyze informed decisions about clinical practice within the accepted departmental protocols.	Problem solving Problem-based learning Practical Training	Case study Practical Exam OSPE
2.5	Take part in operating X-ray machine properly.	Problem solving Problem-based learning Practical Training	Case study Practical Exam OSPE
3.0	Values:		
3.1	Adapt the ethical profession as honesty, respect, patient care and infection control.	Collaborative learning Self-learning	Presentation
3.2	Determine the basic radiation protection and safety measures for patients, radiographer, and other health staff.	Collaborative learning Self-learning	Presentation

3. Field Experience Learning Outcomes Assessment a. Students Assessment Timetable

No.	Assessment task*	Assessment timing (Week)	Percentage of Total Assessment Score
1	Case study.	5 th	20 %
2	Presentation.	7 th	20 %
3	Practical Exam OSPE.	9 th	50 %
4	Hospital Evaluation.	10 th	10 %

*Assessment task (i.e., Practical test, oral test, presentation, group project, essay, etc.)

b. Assessment Responsibilities

No.	Category	Assessment Responsibility	
1	Teaching Staff	The faculty teaching staff will evaluate the performance of the students based on direct observation, reports, logbook, activity of the student and direct feedback from the hospital staff.	
2	Field Supervisor	The Field Supervisor evaluates the student's Logbook, ability to identify issues/problems, provide solutions, perseverance, dedication, ethics, time management, independence, and work relationships.	
3	Others (specify)	None.	

C. Field Experience Administration

1. Field Experience Locations

a. Field Experience Locations Requirements

Suggested Field Experience Locations	General Requirements*	Special Requirements**
King Abdul-Aziz Specialist Hospital.		None.
King Faisal Specialist Hospital.		None.
Children's Hospital at Taif.	Training letter.	Infection control certificate.
Al-Hada Military Hospital.	Student ID. Medical Uniform.	Training application Security check.
Prince Mansoor Military Hospital.	Proper appearance.	Training application Security check.
Prince Sultan Military Hospital.		Training application Security check.

*Ex: provides information technology ,equipment ,laboratories ,halls ,housing ,learning sources ,clinics etc.

**Ex: Criteria of the training institution or related to the specialization, such as: safety standards, dealing with patients in medical specialties, etc.

b. Decision-making procedures for identifying appropriate locations for field experience

- Start with a meeting with the faculty teaching staff, discussing the main objectives of the trainee rounds and putting some suggestions.
- Hospitals are chosen for capacity, availability of radiological modalities, and located within Taif city.
- Students are distributed according to the hospitals' capacity.

2. Supervisory Staff

a. Selection of Supervisory Staff

Selection Items	Field Supervisor	Teaching Staff	
Qualifications	Registered radiographer, radiology technologist, or radiologist.	Master's degree or higher in a relevant specialty.	
Selection Criteria	 The hospital staff is elected by the radiology department within the hospital-based on Experience and qualification. Availability. 	The faculty teaching staff are elected by the department training committee based on:Qualification.Availability.	

b. Qualification and Training of Supervisory Staff

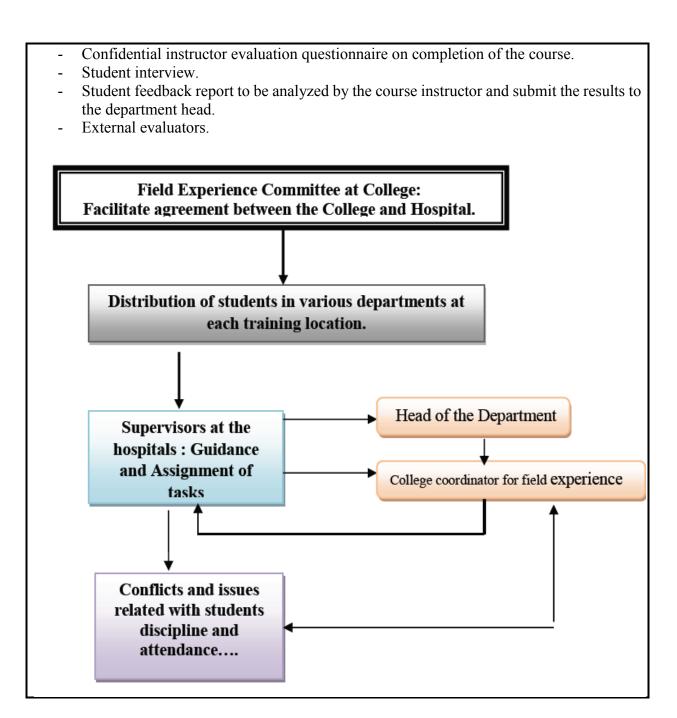
(Including the procedures and activities used to qualify and train the supervisory staff on supervising operations, implementing training activities, the follow-up and evaluation of students, etc.)

Registered radiographer, radiology technologist, or radiologist.

3. Responsibilities

a. Field Experience Flowchart for Responsibility

including units, departments, and committees responsible for field experience, as evidenced by the relations between them.



b. Distribution of Responsibilities for Field Experience Activities

Activity	Department or College	Teaching Staff	Student	Training Organization	Field Supervisor
Selection of a field experience site.	\checkmark			\checkmark	
Selection of supervisory staff.					
Provision of the required equipment.	\checkmark	\checkmark		\checkmark	\checkmark
Provision of learning resources.	\checkmark				

Activity	Department or College	Teaching Staff	Student	Training Organization	Field Supervisor
Ensuring the safety of the site.	V	\checkmark		\checkmark	\checkmark
Commuting to and from the field experience site.					
Provision of support and guidance.		V		\checkmark	\checkmark
Implementation of training activities (duties, reports, projects,etc).		V			\checkmark
Follow up on student training activities.		\checkmark		\checkmark	\checkmark
Adjusting attendance and leave.		\checkmark		\checkmark	\checkmark
Assessment of learning outcomes.		\checkmark			\checkmark
Evaluating the quality of field experience.	V	\checkmark		\checkmark	\checkmark
Others (specify): None.	-	-	-	-	-

4. Field Experience Implementation a. Supervision and Follow-up Mechanism

The students will undergo training to develop their radiographic technique skills in upper and lower extremities, vertebral spine and bony thorax examinations with appropriate patient care, quality service, and safety precautions.

Supervision will be made by both the Field supervisor and Teaching Staff.

b. Student Support and Guidance Activities

Faculty members are available for individual consultation. They usually dedicate 12 hours weekly for office hours and students are encouraged to visit them for help. Appointments can also be made in person with the faculty through email or phone. Faculty provide a range of academic and course management advice. Each student has an academic adviser who offers personal, academic, psychological, and professional counseling, as well as group counseling to support the academic, behavioral, emotional, psychological, and social growth of students. Also, the Complete Training Guide booklet will be provided to the student that contains all the required info regarding the training process and assessments.

5. Safety and Risk Management

Potential Risks	Safety Actions	Risk Management Procedures
Isolation of highly infected patients.	 Avoid direct contact with the patient. Avoid direct contact with contaminated areas (e.g. pressure ulcer). Wear face mask, gloves, overhead and overshoes cover. 	- Enforce student's knowledge in infection control.
Radiation exposure.	 Always keep in shielded environment or wear shielding garment. Keep a safe distance from the radiation source. Minimize the exposure time as low as possible. Apply ALARA (as low as reasonably achievable) principle. Monitor your radiation dose regularly. 	 Enforce students' knowledge in radiation protection training. Personal dosimeters.

D. Training Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods	
Effectiveness of teaching	Training Committee	Direct	
The extent of achievement of course learning outcomes	Faculty	Direct	
Quality of learning resources	Student, Faculty	Indirect	
Course management and planning	Students	Indirect	
Teaching and interaction with students	Students	Indirect	
Effectiveness of Evaluation and exams	Students, peer review	Direct, Indirect	
Safety	Teaching Staff, Field Supervisors	Direct	
Training facilities/site	Students, Faculty	Direct, Indirect	

Evaluation areas (e.g., Effectiveness of Training and assessment, Extent of achievement of course learning outcomes, quality of learning resources, etc.)

Evaluators (Students, Supervisory Staff, Program Leaders, Peer Reviewer, Others (specify) Assessment Methods (Direct, Indirect)

E. Specification Approval Data

Council / Committee	DEPARTMENT COUNCIL
Reference No.	11 TH
Date	24 TH MAY 2022

