



### A brief Course Description

<b>Course Name</b>	<b>CARDIAC IMAGING MRI/CT</b>		
<b>Course Code</b>	<b>RDI 421</b>		
<b>College</b>	<b>College of Health and Rehabilitation Sciences /</b>		
<b>Department/ Program</b>	<b>Radiological Sciences</b>		
<b>Year / Level:</b>	<b>4/8</b>		
<b>Credit Hours</b>	<b>2+0+1=3</b>		
<b>Contact Hours</b>	<b>Lecture: 24</b>	<b>Lab/Tutorial</b>	<b>Training: 60</b>
<b>Language</b>	<b>English</b>		
<b>Track</b>	Department Requirement		
<b>Pre-requisites Course:</b>	<b>RDI 311 , RDI 314, RDI 414</b>		
<b>Co-Requests:</b>	<b>NONE</b>		
<b>Course Objectives:</b>	<p>Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> <li>○ Recognizing the principles of cardiac CT/MRI</li> <li>○ Recognizing the implementation in a clinical environment and the correlation with cardiac anatomy</li> <li>○ Demonstrating the CT protocols for cardiac imaging considerations dose optimization and patient setup</li> <li>○ Identifying the cardiac MRI pulse sequence design, patient set up and anatomical imaging planes, anatomical and functional imaging, and clinical applications.</li> <li>○ Gain basic knowledge and concept on image formation and image processing and techniques in MRI</li> </ul>		



### A brief Course Description

<b>Course Name</b>	<b>Research Methods &amp; Research Project (2)</b>		
<b>Course Code</b>	<b>RDI 422</b>		
<b>College</b>	<b>College of Health and Rehabilitation Sciences /</b>		
<b>Department/ Program</b>	<b>Radiological Sciences</b>		
<b>Year / Level:</b>	<b>4/8</b>		
<b>Credit Hours</b>	<b>2+0+0=2</b>		
<b>Contact Hours</b>	<b>Lecture: 24</b>	<b>Lab/Tutorial</b>	<b>Training:</b>
<b>Language</b>	<b>English</b>		
<b>Track</b>	Department Requirement		
<b>Pre-requisites Course:</b>	<b>RDI 411</b>		
<b>Co-Requests:</b>	<b>NONE</b>		
<b>Course Objectives:</b>	<p>Upon successful completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> <li>○ Integrate knowledge gained through the academic and clinical portions of the program to prepare a paper that is relevant and timely.</li> <li>○ Correctly manage issues of patient confidentiality.</li> <li>○ Perform a literature review.</li> <li>○ Prepare a paper using a standardized format.</li> <li>○ Present a paper to the class demonstrating effective use of audio and visual tools.</li> </ul>		



### A brief Course Description

Course Name	Clinical Practicum 4		
Course Code	RDI 423		
College	College of Health and Rehabilitation Sciences /		
Department/ Program	Radiological Sciences		
Year / Level:	4/8		
Credit Hours	0+0+2=2		
Contact Hours	Lecture:	Lab/Tutorial	Training: 60
Language	English		
Track	Department Requirement		
Pre-requisites Course:	RDI 316, RDI 412, RDI 321		
Co-Requests:	NONE		
Course Objectives:	<p>Upon successful completion, the student will be able to :</p> <ul style="list-style-type: none"> <li>- Prepare the patient for the procedure·</li> <li>- Explain the procedure to the patient·</li> <li>- Describe angiographic , myelographic , lymphographic procedures in detail</li> <li>- Take the angiographic, myelographic and lymphographic images in appropriate positions. · Differentiate between normal and abnormal images.</li> </ul>		



### A brief Course Description

Course Name	QUALITY ASSURANCE IN DIAGNOSTIC RADIOLOGY		
Course Code	RDI 424		
College	College of Health and Rehabilitation Sciences /		
Department/ Program	Radiological Sciences		
Year / Level:	4/8		
Credit Hours	1+0+1=2		
Contact Hours	Lecture: 24	Lab/Tutorial	Training: 60
Language	English		
Track	Department Requirement		
Pre-requisites Course:	RDI 413		
Co-Requests:	NONE		
Course Objectives:	<ul style="list-style-type: none"> <li>- In this course the knowledge acquired during, Quality Assurance in Diagnostic Radiology I will be applied in real clinical situation. During the course Student will be assigned to observe and perform work in radiology department</li> </ul>		



### A brief Course Description

Course Name	Medical imaging informatics and PACS		
Course Code	RDI 425		
College	College of Health and Rehabilitation Sciences /		
Department/ Program	Radiological Sciences		
Year / Level:	4/8		
Credit Hours	2+0+1=3		
Contact Hours	Lecture: 24	Lab/Tutorial	Training: 30
Language	English		
Track	Department Requirement		
Pre-requisites Course:	RDI 415, RDI 416		
Co-Requests:	NONE		
Course Objectives:	<ul style="list-style-type: none"> <li>- The main purpose of this course is to develop in students the basic working knowledge of medical informatics within the health care and radiology department framework. The course will introduce the student to basics of computer terminology and information technology in medical industry. The course will describe the institutional information systems. The course will introduce the technology used in radiological digital imaging and archiving systems (PACS) and its components.</li> </ul>		