



A brief Course Description

Course Name	Biostatistics		
Course Code	HRS 116		
College	College of Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences		
Year / Level:	3 rd year/6 th level		
Credit Hours	2+1+0=3		
Contact Hours	Lecture: 2	Lab/Tutorial: 2	Training:0
Language	English		
Track	College Requirement		
Pre-requisites Course:	HFSS 101-1		
Co-Requests:	None		
Course Objectives:	By the end of this course, the student should be able to: <ul style="list-style-type: none">• Apply statistical methods to health related data• Understand how to use statistical software• Interpret outputs generated by the software		



A brief Course Description

Course Name	Nuclear Medicine Instrumentation		
Course Code	RNM 321		
College	College of Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences		
Year / Level:	3 rd year /6 th level		
Credit Hours	1+1+0=2		
Contact Hours	Lecture: 1	Lab/Tutorial: 2	Training: 0
Language	English		
Track	Department Requirement		
Pre-requisites Course:	RNM 221 , RNM 312		
Co-Requests:	None		
Course Objectives:	<p>By the end of this course, the student should be able to:</p> <ul style="list-style-type: none"> • Understand the principles of different Nuclear Medicine equipment and their application • Outline radiation detection systems, parameters for optimum imaging results and the importance of quality control 		



A brief Course Description

Course Name	Nuclear Medicine Clinical Procedures II		
Course Code	RNM 322		
College	College of Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences		
Year / Level:	3 rd year /6 th level		
Credit Hours	2+1+1=4		
Contact Hours	Lecture: 2	Lab/Tutorial: 2	Training: 4
Language	English		
Track	Department Requirement		
Pre-requisites Course:	RNM 311		
Co-Requests:	None		
Course Objectives:	<p>By the end of this course, the student should be able to:</p> <ul style="list-style-type: none"> • Demonstrate an understanding of SPECT&PET technologies as well as radiation protection and advanced procedures in diagnostic Nuclear Medicine • Apply the theoretical knowledge gained about the procedures in the clinical practice 		



A brief Course Description

Course Name	Radio therapeutic Procedures in NM		
Course Code	RNM 323		
College	College of Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences		
Year / Level:	3 rd year /6 th level		
Credit Hours	2+0+2=4		
Contact Hours	Lecture: 2	Lab/Tutorial: 0	Training: 8
Language	English		
Track	Department Requirement		
Pre-requisites Course:	None		
Co-Requests:	None		
Course Objectives:	<p>By the end of this course, the student should be able to:</p> <ul style="list-style-type: none"> • Explain the concept of targeted radionuclide therapy and its applications in cancer treatment • Understand different therapeutic Nuclear Medicine procedures 		



A brief Course Description

Course Name	Computer Applications and Image Processing		
Course Code	RNM 324		
College	College of Health and Rehabilitation Sciences		
Department/ Program	Radiological Sciences		
Year / Level:	3 rd year/6 th level		
Credit Hours	2+1+0=3		
Contact Hours	Lecture: 2	Lab/Tutorial: 2	Training: 0
Language	English		
Track	Department Requirement		
Pre-requisites Course:	None		
Co-Requests:	None		
Course Objectives:	<p>By the end of the course, the student will be expected to be able to:</p> <ul style="list-style-type: none"> • Explain basics of a computer, 2D and 3D images and a digital imaging system including sampling, digitization and quantization • Describe the reconstruction of tomographic images, the image processing and analysis procedures used in quantitative nuclear medicine 		