



A brief Course Description

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| Course Name | Human Anatomy and Physiology -1 | | |
| Course Code | HRS 112 | | |
| College | Health and Rehabilitation Sciences | | |
| Department/ Program | Radiological Sciences Department/ Ultrasound Program | | |
| Year / Level: | 2 nd year, 3 rd level | | |
| Credit Hours | 3(2.1.0) | | |
| Contact Hours | Lecture: 2 | Lab/Tutorial: 2 | Training: 0 |
| Language | English | | |
| Track | College Requirement | | |
| Pre-requisites Course: | HFSB101-1, HFSB102-1 | | |
| Co-Requests: | None | | |
| Course Objectives: | At the end of the course, students should be able to: identify the location of anatomical structures and anatomical parts of the human body by using directional and orientation terms and on radiographic images and models, acquire knowledge of the Structure and functions of all the systems of the body. | | |



A brief Course Description

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|-------------------------------|--|-----------------|-------------|
| Course Name | Emergency Life Support Techniques | | |
| Course Code | HRS 114 | | |
| College | Health and Rehabilitation Sciences | | |
| Department/ Program | Radiological Sciences Department/ Ultrasound Program | | |
| Year / Level: | 2 nd year, 3 rd level | | |
| Credit Hours | 3(2.1.0) | | |
| Contact Hours | Lecture: 2 | Lab/Tutorial: 2 | Training: 0 |
| Language | English | | |
| Track | College Requirement | | |
| Pre-requisites Course: | HFSB 101-1 & HFSB 102-1 | | |
| Co-Requests: | None | | |
| Course Objectives: | The student will be able to describe the concepts related to basic life support techniques, explain the primary & secondary assessment of patients with emergency conditions, acquire basic skills in handling patients in arrest conditions, realize the general concepts and the basis of first aid and perform CPR effectively, deal with and manage common medical emergencies, assess the emergency situation and categorize the patients according to the priorities and degree of illness, communicate with the operator, colleagues and patients and relatives effectively based on professional ethics and control protocols. | | |



A brief Course Description

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|-------------------------------|--|-----------------|-------------|
| Course Name | Society and Health | | |
| Course Code | HRS 115 | | |
| College | Health and Rehabilitation Sciences | | |
| Department/ Program | Radiological Sciences Department/ Ultrasound Program | | |
| Year / Level: | 2 nd year, 3 rd level | | |
| Credit Hours | 3 (3.٠.0) | | |
| Contact Hours | Lecture: ٣ | Lab/Tutorial: ٠ | Training: 0 |
| Language | English | | |
| Track | College Requirement | | |
| Pre-requisites Course: | None | | |
| Co-Requests: | None | | |
| Course Objectives: | The aim of this course is to understand how community affects health outcomes of individuals and population. The course will teach the different determinants of health outcomes and discuss the biological and socio-economic dimensions of health and illness. | | |



A brief Course Description

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|-------------------------------|---|-----------------|-------------|
| Course Name | Introduction to Radiation Physics | | |
| Course Code | RAD 211 | | |
| College | Health and Rehabilitation Sciences | | |
| Department/ Program | Radiological Sciences Department/ Ultrasound Program | | |
| Year / Level: | 2 nd year, 3 rd level | | |
| Credit Hours | 3(2.1.0) | | |
| Contact Hours | Lecture: 2 | Lab/Tutorial: 2 | Training: 0 |
| Language | English | | |
| Track | Department Requirement | | |
| Pre-requisites Course: | HFSP 101-1 | | |
| Co-Requests: | None | | |
| Course Objectives: | By the end of the course, students are expected to:outline the radiation principles, behaviors, and interaction, identify: atomic structure, binding energy, excitation, ionization and non-ionization and atomic radiation, apply the radioactivity decay law and half-life, express and explain Radiation interaction with matter, state the principles of X-ray tube and X-ray production. | | |



A brief Course Description

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|-------------------------------|---|-----------------|-------------|
| Course Name | Introduction to Radiological Modalities | | |
| Course Code | RAD 212 | | |
| College | Health and Rehabilitation Sciences | | |
| Department/ Program | Radiological Sciences Department/ Ultrasound Program | | |
| Year / Level: | 2 nd year, 3 rd level | | |
| Credit Hours | 2 (2.0.0) | | |
| Contact Hours | Lecture: 2 | Lab/Tutorial: 0 | Training: 0 |
| Language | English | | |
| Track | Department Requirement | | |
| Pre-requisites Course: | HFSP 101-1 | | |
| Co-Requests: | None | | |
| Course Objectives: | Upon successful completion, the student will be able to satisfactorily decide which track of radiological science would like to subspecialize, recognize the technologies of radiological modalities, recognize the imaging and therapeutic radiological modalities framework and integrity and differentiate between the technologies. | | |