



Sample Brief Course Description

Course title	Physiology and Anatomy for Engineers
Course code	MPS 240
College	Engineering
Department / Program	Biomedical Engineering
Year/ Level	2/4
Course Type	A. <input type="checkbox"/> University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Others b. <input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective
Credited Hours	3
Contact Hours	(LT:2, LB:2, TR:0)
Pre-requisites (if any)	BIO 206
Co-requisites (if any)	---
Course description	This course is four credit hours (3 Theory, 2 Laboratory) that cover up the human physiology and related anatomical structure. It will help the pupil to understand and mimic the human instrumentation system. It will cover the major human machine, e.g.: musculoskeletal, nervous system, cardiovascular system, and digestive system.
Course Main Objectives	The course is intended for the students to: <ul style="list-style-type: none">• To understand the internal environment of human body and homeostasis mechanism.



	<ul style="list-style-type: none">To provide the knowledge of structure and functioning of nervous system, and musculoskeletal system, cardiovascular system, respiratory system, and digestive system. <p>Likewise, it aims to let students demonstrate the ability to apply knowledge of Anatomy and Physiology to the biomedical engineering field.</p>
Learning Outcomes	Knowledge and Understanding: <ol style="list-style-type: none">Describe internal characteristics and homeostasis mechanism of human body.Identify the structural and functional components of the human integumentary, nervous, musculoskeletal, cardiovascular, respiratory and digestive systems relevant to biomedical engineering.
	Skills: <ol style="list-style-type: none">Correlate the structural and functional components of the human nervous, musculoskeletal, cardiovascular, respiratory, digestive, to deliver competent biomedical engineers.Explain the effect of the alteration in the body structure and function on human health.Demonstrate the ability to communicate in English both orally and in writing.Demonstrate the ability to use library resources and other systems
	Values: <ol style="list-style-type: none">Demonstrate competency in performing laboratory procedures used to examine anatomical structures and evaluate physiological functions during practical sessions.