

ADVANCED DIPLOMA OF BIOMEDICAL ENGINEERING

MODULE DETAILS	MODULE 6: ANATOMY AND PHYSIOLOGY FOR ENGINEERS
	Nominal duration: 4 weeks (48 hours total time commitment) This time commitment includes the preparation reading, attendance at each webinar (1 hour plus 15-30 minutes for discussion), and the time necessary to complete the assignments and further study.
MODULE PURPOSE	To enable the participants to understand the structure and function of the human body. Interpret the functional aspects and the various vivo signals generated from skeletal & muscular, sensory organs, cardiovascular, nervous and respiratory systems.
PRE-REQUISITES MODULE, UNITS / CO-REQUISITES	Nil
ASSESSMENT STRATEGY	To evaluate the achievement of the learning outcomes; written assignments, group projects and practical exercises are set.
SUMMARY OF LEARNING OUTCOMES	<ol style="list-style-type: none"> 1 Describe the structure and functions of the human body, skeletal and muscular systems, and sensory organs 2 Examine and discuss the structure and functions of the cardiovascular system 3 Examine and discuss the structure and functions of the respiratory system 4 Examine and discuss the structure and functions of the nervous system
Learning Outcome 1	Describe the structure and functions of the human body, skeletal and muscular systems, and sensory organs
Assessment Criteria	<ol style="list-style-type: none"> 1.1 Describe the structure and functions of the main human body systems 1.2 Describe the essentials of the human skeletal and muscular systems 1.3 Examine and discuss the functions of the human sensory organs

ADVANCED DIPLOMA OF BIOMEDICAL ENGINEERING

Learning Outcome 2	Examine and discuss the structure and functions of the cardiovascular system
Assessment Criteria	2.1 Describe the structure of the cardiovascular system 2.2 Examine and discuss the functions of the cardiovascular system
Learning Outcome 3	Examine and discuss the structure and functions of the respiratory system
Assessment Criteria	3.1 Describe the structure of the respiratory system 3.2 Examine and discuss the functions of the respiratory system
Learning Outcome 4	Examine and discuss the structure and functions of the nervous system
Assessment Criteria	4.1 Describe the structure of the nervous system 4.2 Examine and discuss the functions of the nervous system
Delivery Mode	
A combination of asynchronous and synchronous e-learning delivery comprising a judicious mix of interactive online web conferencing, simulation (virtual labs) software, remote online labs, online videos, PowerPoints, notes, reading and study materials (in pdf, html and word format) accessed through the Moodle Learning Management System (LMS).	