Subject Description Form

Subject Code	HSS2011				
Subject Title	Human Anatomy				
Credit Value	3				
Level	2				
Pre-requisite / Co-requisite/ Exclusion	Nil				
Objectives	By completing this subject using a systemic and regional approach in teaching and learning, students will be able to demonstrate a basic understanding of the structure, organization and function of the human body.				
Intended Learning Outcomes	 Upon successful completion of the subject, students will be able to: a. Understand and familiarize anatomical terminology of the human body b. Identify and locate relevant anatomical structures c. Demonstrate a basic understanding of tissue organization within the human body d. Integrate systemic and regional aspects of human anatomy and understand their spatial relationship e. Explain function of anatomical structures f. Recognize anatomical pathway of important body systems and regions 				
Contribution to Programme Outcomes (Refer to Part I Section 10)	 Programme Outcome 1: Demonstrate an ability to apply knowledge of mathematics, science, and engineering appropriate to the Biomedical Engineering (BME) discipline. (Teach) Programme Outcome 3: Demonstrate an ability to design a system, component, or process relevant to BME to meet desired needs within realistic constraints, such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability. (Teach) Programme Outcome 5: Demonstrate an ability to understand the impact of BME solutions in a global and societal context, especially the importance of health, safety and environmental considerations to both workers and the general public. (Teach) Programme Outcome 9: Demonstrate an ability to function in multi-disciplinary teams. (Teach) Programme Outcome 11: Demonstrate an ability to communicate effectively and advise clients, professional colleagues and other members of the community. (Teach) 				

Subject Synopsis/ Indicative Syllabus	The content of important body systems and regions will be discussed in the following four modules:								ne	
	Module I The Thorax	ζ.	Module III The Abdomen an			and P	nd Pelvis			
	Cardiopulmonary Syste Regional Anatomy of t Thorax	the	Digestive System Urogenital System Regional Anatomy of the Abdomen & Pelvis							
	Module II Neuroana	tomy	ny Module IV Musculoskeletal system							
	Nervous System Special Senses Neuroanatomy		Musculoskeletal System Head & Neck Upper and Lower Limbs							
Teaching/Learning Methodology	Various eLearning methods will be promoted in this subject to encourage student-centered active learning.									<i>ş</i> e
	Self-paced practical sessions will be facilitated by the 3D anatomical visualizer installed in the FHSS Virtual Anatomy & Physiology Laboratory, in order to consolidate learning and understanding.									
Assessment Methods in Alignment with Intended Learning Outcomes	Specific assessment	% weighting	ting	Intended subject learning outcomes to be assessed (Please tick as appropriate)						
	methods/tasks		a	b	с	d	e	f		
	Continuous Assessment (Group assignments & Individual written test)	100%		\checkmark	\checkmark	\checkmark	V	\checkmark	\checkmark	
	Total	1009	%		1		1			
	Note: Group assignments will be assigned in the discipline-specific tutorials, using the format of mini-presentation and E-poster.							5		
	<u>Collaborative learning</u> Groups will be self-formed by students in tutorials to discuss the anatomical pathway of particular case studies and the function of certain structures.						al			

Student Study	Class contact:	(36 Hrs.)				
Effort Expected	Online / Face-to-face Lecture	26 Hrs.				
	 In-class activity sessions 	10 Hrs.				
	Other student study effort:	(93 Hrs.)				
	 Independent study 	43 Hrs.				
	Collaborative learning	50 Hrs.				
	Total student study effort	129 Hrs.				
Reading List and References	 Text Book Martini FH, Nath JL, Bartholomew EF (2018) <i>Fundamentals of Anatomy</i> <i>and Physiology</i>, 11th edition. Pearson. ANA101x Human Anatomy MOOC <u>https://www.edx.org/course/human-anatomy</u> Reading List Saladin KS (2019) <i>Human Anatomy</i>, 6th edition. Singapore: McGraw Hill Inc. Moore KL, Dalley AF, Agur AMR (2017) <i>Clinically Oriented Anatomy</i>, 8th edition. Philadelphia: Lippincott Williams & Wilkins. Abrahams PH, Hutchings RT, Marks Jr SC (2008) <i>McMinn's Colour Atlas of Human Anatomy</i>, 5th edition. Mosby Elsevier. 					
	 Gosling JA, Harris PF, Humpherson JR, Whitm Human Anatomy Color Atlas and Text, 6th editi 					
Date of Last Revision	June 2023					