

SUMMARY OF INFORMATION ON EACH COURSE

1.	Name of Course	Introduction to Human Pathology								
2.	Course Code	HPT2021								
3.	Status of Course [Applies to (cohort)]	Elective for B. Sc (Hons) Bioinformatics								
4.	MQF Level/Stage	Bachelor – MQF Level 6								
5.	Version (State the date of the Senate approval – history of previous and current approval date)	Date of previous Version: Oct 2015 Date of current version: July 2016								
6.	Pre-Requisite	HCB1011 Cell Biology HAP1011 Human Anatomy and Physiology								
7.	Name(s) of academic/teaching staff	Ong Chia Sui								
8.	Semester and Year offered	Trimester 2, Year 3								
9.	Objective of the course in the programme : This course is to provide an understanding of the basic mechanisms (general pathological processes) of diseases and relate it to the cause and effects of disease to the underlying pathological process. This course also is to instruct students on the structural changes (gross and histological) in, and how they relate to different general pathological processes									
10.	Justification for including the course in the programme : This subject will provide fundamental knowledge about various aspects of human diseases to the students since this is important to prepare students with some knowledge in Bioinformatics.									
11.	Course Learning Outcomes :								Domain	Level
	LO1 - Identify appropriate knowledge of disease denomination and of medical terminology.								Cognitive	1
	LO2 - Comprehend fundamental concepts underlying tissue injury and repair.								Cognitive	2
	LO3 - Illustrate the etiology, clinical manifestation, pathogenesis, and the systemic and functional consequences of general pathologies.								Cognitive	4
	LO4 - Demonstrate the role of gross, microscopic and ultra-structural changes in diagnostic pathology.								Cognitive	3
12.	Mapping of Learning Outcomes to Programme Outcomes :									
	Learning Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
	LO1		X							
	LO2	X	X							
	LO3	X	X							
LO4	X	X								

SUMMARY OF INFORMATION ON EACH COURSE

13.	Assessment Methods and Types :					
	Method and Type		Description/Details			Percentage
	Final Exam		Written examination			50%
	Tests		Written tests			15%
	Quizzes		Written quizzes			15%
	Assignment		Group report and presentation			10%
Lab Reports		Individual report			10%	
14.	Mapping of assessment components to learning outcomes (LOs)					
	Assessment Components	%	LO1	LO2	LO3	LO4
	Final Exam	50	X	X	X	
	Tests	15	X	X	X	
	Quizzes	15	X	X	X	
	Assignment	10		X	X	X
	Lab Reports	10		X	X	X
15.	Details of Course					
	Topics			Mode of Delivery		
				Lec	Tut	Lab
	1. Basic principles in pathology			1		3
	2. Response to injury i. Cell injury and cell death ii. Cellular adaptations iii. The acute and chronic inflammatory response iv. Tissue repair: cellular growth, fibrosis and wound healing			8	2	
	3. Causative agents of tissue injury i. Abnormalities of blood supply ii. Nutritional disorders iii. Environmental pathology iv. Diseases due to infectious agents			8	2	6
	4. Disorders of development and growth i. Genetic diseases ii. Pediatric diseases			2		
	5. Neoplasia and oncogenesis i. Classification, nomenclature and epidemiology of neoplasm ii. Mechanism and causes of neoplasia iii. Biological and clinical effects of neoplasia			4	1	3

SUMMARY OF INFORMATION ON EACH COURSE

	6. Immunological mechanism of disease i. Innate immunity ii. Adaptive immunity iii. Disorders of immunity	3	1	
	Total	26	6	12
	Laboratory			
	Lab 1: Microscopic examination of tissues Lab 2: Hemodynamic disorders Lab 3: Environmental pathology Lab 4: Laboratory information system			
	Total Student Learning Time (SLT)	Face to Face / Guided Learning		Independent Learning
	Lecture	26		26
	Tutorials	6		6
	Laboratory/Practical	12		6
	Assignment	-		10
	Mid Term Test	1		4
	Final Exam	2		18
	Quizzes	3 times		3
	Sub Total	47		73
	Total SLT	120		
16.	Credit Value	3		
17.	Reading Materials :			
	Textbooks			
	Kumar, Cotran and Robbins. (2012). Robbins Basic Pathology. 9th ed. Elsevier.			
	Reference Material (including 'Statutes' for Law)			
	Vinay Kumar, Abul K. Abbas, and Jon C. Aster. (2014). Robbins & Cotran Pathologic Basis of Disease, 9 th Edition. Elsevier. Edward C. Klatt. (2014). Robbins and Cotran Atlas of Pathology, 3rd Edition. Elsevier. Edward C. Klatt, and Vinay Kumar. (2014). Robbins and Cotran Review of Pathology, 4th Edition. Elsevier.			

SUMMARY OF INFORMATION ON EACH COURSE

Appendix (to be compiled when submitting the complete syllabus for the programme) :

1. Mission and Vision of the University and Faculty
2. Programme Objectives or Programme Educational Objectives
3. Programme Outcomes (POs)
4. Mapping of POs to the 8 MQF domain
5. Summary of the Bloom's Taxonomy's Domain Coverage in all the Los in the format below :

Subject	Learning Outcomes (please state the learning outcomes)	Bloom's Taxonomy Domain		
		Affective	Cognitive	Psychomotor
ABC1234	Learning Outcome 1			
	Learning Outcome 2			
	Learning Outcome 3			
	Learning Outcome 4			
DEF5678	Learning Outcome 1			
	Learning Outcome 2			
	Learning Outcome 3			
	Learning Outcome 4			

6. Summary of LO to PO measurement
7. Measurement and Tabulation of result for LO achievement
8. Measurement Tabulation of result for PO achievement