

SUMMARY OF INFORMATION ON EACH COURSE

1.	Name of Course	Legal, Moral & Ethical Issues in Life Sciences								
2.	Course Code	HLP3011								
3.	Status of Course [Applies to (cohort)]	Specialisation core 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: June 2014 Date of current version: March 2016								
6.	Pre-Requisite	None								
7.	Name(s) of academic/teaching staff	Ms Ong Chia Sui Ms Tan Chai Hong Mr Cheong Soon Fatt								
8.	Semester and Year offered	Trimester 2, Year 3								
9.	Objective of the course in the programme : 1. To introduce students to the study of ethics 2. To provide insight into a number of legal, moral and ethical issues relevant to Life Science									
10.	Justification for including the course in the programme : The course is designed to give an overview of ethical principles and the application of ethics in Life Science. Students will be introduced to the philosophy of ethics, professional conduct and ethics in the context of scientific research and legal aspects related to bioethics. Contemporary issues in bioethics will be used as a resource and platform for students to explore the principles taught, and to stimulate students to question, think, and learn to handle controversial subjects of ethical concern in a rational and balanced manner. Subjects covered include selective topics in genetics, medical ethics and reproduction.									
11.	Course Learning Outcomes :		Domain			Level				
	LO1 Explain the basic principles of ethics and basic legal knowledge		Cognitive			Level 2				
	LO2 Discuss and present the ethical issues using the basic principles		Cognitive			Level 2				
	LO3 Defend and debate the controversial issues in life sciences		Affective			Level 4				
	LO4 Practice good professional ethics in carrying out professional duties		Affective			Level 2				
12.	Mapping of Learning Outcomes to Programme Outcomes :									
	Learning Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
	LO1		x							
	LO2		x							
	LO3		x				x			

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	LO4	x	x				x				
13.	Assessment Methods and Types :										
	Method and Type		Description/Details					Percentage			
	Tests		Written tests					30%			
	Assignment and Cases		Reports and Debate					70%			
14.	Mapping of assessment components to learning outcomes (LOs)										
	Assessment Components		%	LO1	LO2	LO3	LO4				
	Debate		30		30	50	43				
	Tests		30	100	30		43				
	Movie Review		30		30	50					
Case study		10		10		14					
15.	Details of Course										
	Topics					Mode of Delivery					
						Lecture		Case studies			
	1. Introduction					2					
	<ul style="list-style-type: none"> The origin and philosophy of ethics Human rights and responsibilities 										
	2. Ethical considerations and professional conduct in scientific research					2					
	<ul style="list-style-type: none"> Data integrity and publication ethics Ethical statistics Ethical consideration of animal subjects and <i>in-vivo</i> studies 										
	3. Ethical principles and considerations in clinical research					2					
	4. Issues in bioethics					10					
	<ul style="list-style-type: none"> Genetics Environmental ethics Medical ethics Reproduction 										
5. Telemedicine from the perspective of:					3						
<ul style="list-style-type: none"> Privacy and information security issues in telemedicine Accountability 											
6. End of Life issues					2						
7. Introduction to the Malaysian legal system					3						
8. Patenting laws in Malaysia					2						

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	9. Case Studies, discussion, presentations, debates around issues in bioethics		14
	Total	26	14
16.	Total Student Learning Time (SLT)	Face to Face / Guided Learning	Independent Learning
	Lecture	26	26
	Case studies	14	36
	Assignment	-	10
	Test	2	6
	Sub Total	42	78
	Total SLT	120	
17.	Credit Value	3	
18.	Reading Materials :		
	Textbooks		
	Principles of Biomedical Ethics. Beauchamp, Tom & Childress, James. Oxford University Press 2012.		
	Reference Material (including 'Statutes' for Law)		
Bioethics: Principles, Issues and Cases. 2 nd Edition. Lewis Vaughn. Oxford University Press 2012.			

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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