Subject Description Form

Subject Code	COMP3511			
Subject Title	Legal Aspects and Ethics of Computing			
Credit Value	2			
Level	3			
Pre-requisite / Co-requisite / Exclusion				
Objectives	The objectives of this subject are to:			
	1. be fully aware of the basic set of legal, ethical and security responsibilities;			
	2. be in a position to think and act as (junior) computing professionals; and			
	3. be in a position to deal with ethical dilemmas and legal challenges that they can expect to face when they start work.			
Intended	Upon completion of the subject, students will be able to:			
Learning Outcomes	Professional/academic knowledge and skills			
outcomes	(a) be aware of the ethical and legal issues surrounding the use of computers;			
	 (b) apply the conceptual tools provided in the course to develop analytical skills for determining what to do in ethical and legal decision-making; 			
	(c) develop personal strategies for staying current with professional standards, industry trends and developments in the computer science field;			
	<u>Attributes for all-roundedness</u>			
	(d) communicate effectively both verbally and in writing as a professional in computing;			
	(e) develop the basic skills to work independently to solve routine problems; and			
	(f) think and reason critically, especially on different issues related to computing professional in society.			

Subject Synopsis/	nic
IndicativeSyllabus1.	Introduction
	A brief of the development of computing/IT industry; exploration of computing technologies whose impact on ethics and legal issues are likely to grow in the near future.
2.	Ethical Management & Analysis
	Traditional/philosophical ethics; policy vacuum; social context; ethical decision making; practical approach/ analysis; sample cases for ethical management.
3.	Information Security Ethics
	Introduction of cybercrime, hacker, Cyber / InfoSec / Cybersecurity Ethics and Information Security (InfoSec) management system (ISO/IEC 27001)
4.	Artificial Intelligence Ethics
	Introduction of AI, GenAI Fraud, AI Ethics and Safety, Autonomous vehicles case study and AI Management System (ISO 42001)
5.	Legal Aspect – Privacy & GDPR
	Personal privacy; computer and privacy; relevant privacy acts such as Personal Data (Privacy) Ordinance, as well as, Privacy Information Management (ISO/IEC 27701)
6.	Legal Aspect – Computer Related Crime Case Studies
	Computer criminals; computer fraud; computer sabotage; computer forensics
7.	IP Management
	Intellectual property; property rights; legal protection; philosophical basis; Patents system in Hong Kong, Patents system in China and USA, IP Strategy and Management Standard (ISO 56005)
8.	Professional Bodies and Code of Conduct
	 Role and functions of professional bodies; professional bodies for computing/IT practitioners; Impact of computing/IT professional bodies. ICAC guest lecture and professional integrity
9.	Entrepreneurship (I) – Sustainable Development
	Introduction of UN Sustainable Development Goals (SDGs) and Circular Economy, as well as, Quality, Environment & Health and Safety management system (ISO 9001, ISO 14001 & ISO 45001) with cases of sustainability report.
10	. Entrepreneurship (II)
	Business Ethics, introduction of the entrepreneurship and startup, SWOT analysis and quality startup management system model

Teaching/ Learning Methodology	This subject emphasises both ethical and legal aspects of computing professional. It is intended to provide students with knowledge and practical experience on ethical, technological and legal issues related to computing. Lectures would cover the conceptual aspects. Guest lectures with external speakers provide students with knowledge from another perspective. Laboratory and tutorial sessions focus on the exercises to gain understanding both of what being a professional in computing involves and how they can most effectively deal with the challenges they will encounter.									
Assessment Methods in Alignment with	Specific assessment methods/tasks	% weighting	earning outcomes ssessed							
Intended Learning			a	b	c	d	e	f		
Outcomes	Continuous Assessment									
	1. Assignments	100%	~	~	~	~	~	~		
	2. Tests		~	~	~		~	~		
	3. Projects		~	~	~	~	~	~		
	4. Presentations		✓	✓	✓	✓		✓		
	Examination	0%								
	Total	100%								
Student Study Effort Expected	Class contact:									
	Lecture 26 Hrs.								3.	
	Tutorial/Lab 0 Hrs.									
	Other student study effort:									
	Assignments, Quizzes, Projects, Tests						31 Hrs.			
	Total student study effort					57 Hrs.				
Reading List and References	References: 1. Manjikian, M. (2017) 2. Boddington, P. (2023) 3. Quinn, M. J. (2024). In Education. 4. ISO 37000 – Governant 5. ISO 37001 – Anti-brine 6. ISO 37002 – Whistles 7. ISO 37301 – Compliant	Cybersecurit). AI ethics: a Ethics for the i ance of Organi bery Managen blowing Mana ance Managen	y ethic textbo inform zation nent Sy gemen	es: an in ok. Spr ation a s: Guic ystem (t Syste ystem (ntroduc ringer] ge. 9th lance (ABMS em (WI CMS)	ction. I Nature Ed. B S) MS)	Routled	lge. Pears	on	

8. ISO/IEC 27001 – Information Security Management System (ISMS)
9. ISO/IEC 27701 – Privacy Information Management (PIM)
10. ISO 42001 – Artificial Intelligence Management System (AIMS)
11. ISO 56005 – Tools and Methods for Intellectual Property Management – guidance
12. ISO 9001 – Quality Management System
13. ISO 14001 – Environmental Management System
14. ISO 45001 – Occupational Health and Safety Management System
15. Sustainable Development Goals - the United Nations - <u>https://sdgs.un.org/</u>