

SUMMARY OF INFORMATION ON EACH COURSE

1.	Name of Course	Physical Security								
2.	Course Code	TPS 2491								
3.	Status of Course [Applies to (cohort)]	Elective for B.IT Security Technology								
4.	MQF Level/Stage Note : Certificate – MQF Level 3 Diploma – MQF Level 4 Bachelor – MQF Level 6 Masters – MQF Level 7 Doctoral – MQF Level 8	MQF Level 6								
5.	Version (State the date of the Senate approval – history of previous and current approval date)	Date of previous version:			June 2012					
		Date of current version:			June 2014					
6.	Pre-Requisite	None								
7.	Name(s) of academic/teaching staff	Ong Thian Song Goh Kah Ong Michael								
8.	Semester and Year offered	Trimester 2, Year 2								
9.	Objective of the course in the programme : This course will provide students with the theories and hands on experience of physical security. It also focuses on basic methods and techniques for recognition and anticipation of any types of physical threats and the solutions. It also addresses the concepts and foundations of security knowledge. This course also provides sound understanding and examines the principles and applications of security systems.									
10.	Justification for including the course in the programme :									
11.	Course Learning Outcomes :	Domain			Level					
	LO1 Define potential threats and causes of crime as a result of interaction with the environment.	Cognitive			1					
	LO2 Identify the basic tools and technologies used in physical security.	Cognitive			4					
	LO3 Compose a physical security audit and inspection process.	Cognitive			5					
	LO4 Design a suitable solution to address physical security issues and loss prevention.	Cognitive			6					
12.	Mapping of Learning Outcomes to Programme Outcomes :									
	Learning Outcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9

SUMMARY OF INFORMATION ON EACH COURSE

	LO1	X					X		
	LO2	X					X	X	
	LO3	X						X	
	LO4						X	X	
13.	Assessment Methods and Types :								
	Method and Type	Description/Details					Percentage		
	Mid Test	Written Exam					15%		
	Field Works	Report & Presentation					25%		
	Assignment	Report					10%		
	Final Exam	Written Exam					50%		
14.	Mapping of assessment components to learning outcomes (LOs)								
	Assessment Components	LO1	LO2	LO3	LO4				
	Mid Test	16.67	11.76	10					
	Field Works			15	37.5				
	Assignment		29.42	25	62.5				
	Final Exam	83.33	58.82	50					
15.	Details of Course								
	Topics					Mode of Delivery (eg : Lecture, Tutorial, Workshop, Seminar, etc.) Indicate allocation of SLT (lecture, tutorial, lab) for each subtopic			
						Lecture		Tutorial	
	1. Introduction Definition and theory of crime. Cost of Crime. Introduction to loss prevention through environmental design.					2		1	
	2. Exterior Physical Security: Building & Perimeter Security Principles and application of technology used in physical security systems outside the perimeter boundary. This includes: barriers, fences, walls, protected openings, lighting etc.					6		3	
	3. Interior Physical Security: Alarms and Surveillance Systems Principles and application of technology used in physical security systems. This includes: <ul style="list-style-type: none"> • Door & Window Security • Locks & Keys • Security Containers (Files, Safes, Vaults, Strong Room) • Facility Access Control Devices (Visitor & Employee Identification Programs) 					6		3	

SUMMARY OF INFORMATION ON EACH COURSE

	<ul style="list-style-type: none"> • Parking Security & Traffic Controls • Surveillance (Guards/Patrols/Guard Posts/Inspections) • Asset Protection (Package Control) 		
	4. High-Tech Alarms and Surveillance Systems Principles and application of alarm and surveillance technology used in physical security systems. This includes CCTV, LLLTV, audio sensors, volumetric sensors (photo electric beam, infrared, ultrasonic, microwave, RADAR) etc.	6	3
	5. Physical Security Inspection Process and Investigation Techniques <ul style="list-style-type: none"> • Types of security areas, security auditing. • High technology criminal investigation • Types of Security investigation, How to carry out a Security Survey • Undercover investigation, • Profiling property crimes. • Security Reports determining insurance requirement 	4	2
	6. Loss Prevention and Risk Management Security Procedures Fire and Loss prevention. Problems and specific security issues related to loss and loss prevention. Prediction of future events, explaining of past events, the potential of control event.	2	1
	7. Current Issues in Security Bomb threats, airport security, international terrorism, smart card, security management and security application international and national, private policing and outsourcing.	2	1
	Total	28	14
	Total Student Learning Time (SLT)	Face to Face / Guided Learning	Independent Learning
	Lecture	28	28
	Tutorials	14	14
	Laboratory/Practical	0	0
	Presentation	1	3
	Assignment	0	10

SUMMARY OF INFORMATION ON EACH COURSE

	Mid Term Test	1	5
	Final Exam	2	14
	Sub Total	46	74
	Total SLT	120	
16.	Credit Value	120/40 = 3	
17.	Reading Materials :		
	Textbooks		
	1. Lawrence Fennelly, (2013). Effective Physical Security (Fourth edition), Butterworth-Heinemann.		
	Reference Material (including 'Statutes' for Law)		
	1. Mary Lynn Garcia, (2008). Design and Evaluation of Physical Protection Systems, Butterworth-Heinemann.		
	2. Robert James Fisher, Richard Janoski, (2000). Loss Prevention and Security Procedures. Practical application for contemporary problems. Butterworth – Heinemann.		
	3. Paul R. Baker and Daniel J. Benny, (2013). The Complete Guide to Physical Security. CRC Press.		
	4. C.A. Roper, (1997). Physical Security and Inspection Butterworth – Heinemann.		

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
TPS 2491	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