

1.	Name of Course/Module	Physical Security
2.	Course Code	TPS2491
3.	Status of Subject	Major for B.IT Security Technology
4.	MQF Level/Stage	Bachelor Degree – MQF Level 6
5.	Version (state the date of the last Senate approval)	June 2012
6.	Requirement for Registration	None
7.	Name(s) of academic/teaching staff	Ong Thian Song Md. Shohel Sayeed Low Cheng Yaw
8.	Semester and Year offered	Trimester 2 (Gamma Level)
9.	Objective of the course/module 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.	Learning Outcomes :	
	At the completion of the subject, students should be able to:	
	LO1: Define potential threats and causes of crime as a result of interaction with the environment (Cognitive, Level 1)	
	LO2: Identify the basic tools and technologies used in physical security. (Cognitive, Level 4)	
	LO3: Compose a physical security audit and inspection process (Cognitive, Level 5)	
	LO4: Design a suitable solution to address physical security issues and loss prevention (Cognitive, Level 6)	
11.	Synopsis:	
	This course encompasses the fundamentals for the study of physical securities, inspection and auditing. It focuses on basic methods for recognition, anticipation, selection, and design of security technologies.	
	Kursus ini meliputi asas dalam pembelajaran keselamatan fizikal, pemeriksaan dan pengauditan. Ia memfokuskan kepada kaedah asas bagi pengiktirafan, pengharapan, pemilihan dan rekabentuk teknologi keselamatan.	
12.	Mapping of Subject to Programme Outcomes :	
	Programme Outcomes	% of Contribution
	PO1: Apply soft skills in work and career related activities	33.33

	PO7: Demonstrate knowledge and understanding of essential facts, concepts, principles, and theories relating to security technology	33.33
	PO8: Apply principles and knowledge of security technology in relevant areas	33.33
13.	Assessment Methods and Types :	
	Method and Type	Description/Details
	Test	Written Exam
	Field Works	Report & Presentation
	Assignment	Report
	Final Exam	Written Exam
14.	Details of Subject	
	Topics	Mode of Delivery
		Lecture
		Tutorial
	1. Introduction Definition and theory of crime. Cost of Crime. Introduction to loss prevention through environmental design.	2
	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. 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) • Parking Security & Traffic Controls • Surveillance (Guards/Patrols/Guard Posts/Inspections) • Asset Protection (Package Control) 	6
	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
	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
15.	Tutorials			
	<ul style="list-style-type: none"> • Theory of Crime and CPTED • Physical Security Technologies • Physical Security Inspection • Loss Prevention and Security Risk Management • Current Issues of Physical Security 			
16.	Total Student Learning Time (SLT)	Face to Face (Hour)	Total Guided and Independent Learning	
	Lecture	28	28	
	Tutorials	14	14	
	Presentation	1	3	
	Assignment	-	10	
	Mid Term Test	1	5	
	Final Exam	2	20	
	Sub Total	46	80	
	Total SLT	$126/40 = 3.15 \Rightarrow 3$		
17.	Credit Value	3		
18.	Reading Materials :			
	Textbook	Reference Materials		
	1. C.A. Roper. Physical Security and Inspection Butterworth – Heinemann. 2000	2. Lawrence Fennelly. Effective Physical Security, Butterworth-Heinemann; 3 edition 2003 3. Robert James Fisher, Richard Janoski. Loss Prevention and Security Procedures. Practical application for contemporary problems. Butterworth – Heinemann. 2000 4. Timothy Crowe Crime Prevention Through Environmental Design. Applications of Architectural Design and Space Management Concepts. National Crime Prevention Institute Butterworth – Heinemann.2000 5. NISE East Electronic Security Systems Engineering Division, Perimeter Security Sensor Technologies Handbook for Defence Advance Research Agency, http://www.nlectc.org/perimetr/Hb-Word.doc		

19.	<p>Appendix (to be compiled when submitting the complete syllabus for the programme) :</p> <ol style="list-style-type: none">1. Mission and Vision of the University and Faculty2. Mapping of Programme Objectives to Vision and Mission of Faculty and University3. Mapping of Programme Outcome to Programme Objectives4. Programme Objective and Outcomes (Measurement and Descriptions)
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