Subject Description Form

Subject Code	COMP 5525				
Subject Title	Information Security: Technologies and Systems				
Credit Value	3				
Level	5				
Pre-requisite/ Exclusion	Nil				
Objectives	 The objectives of this subject to understand the problem and systems; and to learn biometric compute 	are to enable s ms with current nting knowledge	tudents: security e and me	techno ethods.	ologies
Intended Learning Outcomes	 After completing this subject, students should be able to: a) apply both classical and conventional encryption algorithms for information coding; b) understand the differences between secret key and public-key approaches for information security and their applications; c) use watermarking techniques for information hiding and authentication; and d) apply pattern recognition techniques for biometric 				
Subject Synopsis/ Indicative Syllabus	 Introduction to Information Security Applied Cryptography Best Privacy Tool: Biometrics Privacy Biometrics Techniques Typical Physical & Behavial Biometrics Security Applications 				
Teaching/Learning Methodology	class activities including - lecture, tutorial, lab, workshop seminar where applicable				
Assessment Methods in Alignment with Intended Learning Outcomes	Specific Assessment Methods/Tasks	% weighting	Intend learnin to be a a	ended subject rning outcomes be assessed b c d	
	Assignments, Tests & Projects Final Examination	55	✓ ·	✓ ✓ ✓ ✓	✓ ✓
	Total	100			
Student study effort expected	Class Contact: Class activities (lecture, tutor	ial, lab)	·	39 ho	ours
	Other student study effort:	·		(F)	
	Assignments, Quizzes, Projec	ets, Exams		65 hc	ours
	Total student study effort	. 1	T / 1	<u> 104 k</u>	nours
Keading list and	(1) Stallings, W., 2013, Cryp	$x = \frac{1}{2} $	etwork	Securit	у,
references	Principles and Practices.	(6 Edition), Pi	entice H	lall.	

(2) Stallings, W., 2013, Network Security Essentials: Applications
(2) Lein et al. (a.d.) 1008 Discussion Demonstration in
(3) Jain, et al., (eds), 1998, Biometrics: Personal Identification in
Networked Society, Kluwer Academic Publisher.
(4) Sid-Ahmed, M.A., 1995, Image Processing, Theory,
Algorithms, & Architectures, McGraw-Hill.
(5) Zhang, D., 2000, Automated Biometrics: Technologies &
Systems, Kluwer Academic Publishers.