1.	Name of Course/Module	Internet Computing					
2.	Course Code	TIC2211					
3.	Status of Subject	Core 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	TCP1311 Object Oriented Programming					
7.	Name(s) of academic/teaching staff	Fathin Fakhriah Chin Yong Jian Mohd Fikri Azli bin Abdullah					
8.	Semester and Year offered	Trimester 2 (Gamma Level)					
9.	Objective of the course/module in the programme :						
	To provide an overview of the Internet and World Wide Web technologies. It also provides students with in depth knowledge of web programming including Client and Server side scripting. An important main objective is to establish sufficient knowledge of the web, its applications, security and services provided.						
10.	Learning Outcomes :						
	At the completion of the subject, students should be able to:  LO1: Illustrate the security issues involved in Internet Programming and the effect of this on the chosen Internet Programming Language. (Cognitive, Level 4)  LO2: Identify the basic concepts of gateway and server programming. (Cognitive, Level 1)  LO3: Design a network system in any particular domain. (Cognitive, Level 5)  LO4: Describe proper steps of connecting, accessing, manipulating and designing database driven: website. (Cognitive, Level 6)						
11.	Synopsis:						
	This course provides an introduction to the fundame addition to the World Wide Web and its associated two major areas: the Internet architecture and Protoserver scripting technologies. In addition, modern a Internet and the Web such as Web Security and Se	technologies. The course provides ocols, and the Web architecture and and state of the art concepts associated.	knowledge in I its client and Ited with the				
	Kursus ini mengetengahkan konsep asas internet, senibina internet, jaringan internet dan juga teknologi-teknologi yang berkaitan dengan internet. Kursus ini dibahagikan kepada dua bahag utama. Pertama, senibina internet dan protokol-protokol internet dan yang kedua, senibina jar internet dan teknologi pengaturcaraan skrip klien dan pelayan. Konsep-konsep terkini termas bidang sekuriti internet dan perkhidmatan jaringan internet juga akan ditinjau dan dikupas.						
12.	Mapping of Subject to Programme Outcomes :						
	Programme Outcomes		% of Contribution				

	PO1: Apply soft skills in work and career re	27.27				
	PO2: Demonstrate knowledge and underst	epts,	36.36			
	principles and best practices					
	PO3: Analyse the requirements to address domains or organisations	18.18				
	PO5: Blend innovative mind and entrepren		18.18			
13.	Assessment Methods and Types:	euriai skiiis		10.10		
13.	Assessment Methods and Types .					
	Method and Type	nils	Percentage			
	Test	Written Exam		20%		
	Project	Report & Presenta		35%		
	Assignment	Report		5%		
	Final Exam	Written Exam		40%		
14.						
	Details of Subject					
	Topics		Mode o	of Delivery		
	<u> </u>			1		
			Lecture	Laboratory		
	1. OVERVIEW OF NETWORKING AND T	HE INTERNET	2	2		
	Internetworking, problems in Internetworking		_	_		
	Internetworking devices, Repeaters, Bridge					
	History of the Internet, Internet Architecture					
	2. TCP/IP SOCKETS AND SOCKET PRO		2	2		
	TCP/IP basics, IP addresses, Logical addr	esses, Address Resolution				
	Protocol, Relation between TCP and IP,					
	connections, UDP packets, Difference bety	ween UDP and TCP, Client				
	and server sockets.	and server sockets.  B. CLIENT-SERVER WEB ARCHITECTURE				
	Client/Server Fundamentals, Client/Serve					
	Distributed Computing, Client/Server					
	Network Services, Client/Server protocols	, HTTP and HTTPS, Web				
	servers.					
	4. WEB PAGE DESIGN AND HTML	4	4			
	Introduction to HTML basics. Links, And	chors, Tables, Forms, and				
	Frames, introduction to XML.		4	4		
	5. CLIENT SIDE WEB SCRIPTING	via Chaota Introduction to	4	4		
	Advanced features of HTML, Cascade St Java Script programming, Objects in Jav					
	HTML with Java scripts.	va scripts, basic byriainic				
	6. SERVER SIDE WEB PROGRAMMING	6	6			
		3				
	Introduction to server side scripting, and ir side scripting language such Java Serve					
	new scripting language required by the indi					
	7. DATABASE DRIVEN WEB ARCHITEC	2	2			
	Database connectivity, accessing and	_	_			
	design of a database driven basic website.					
	8. WEB AND SCRIPTS SECURITIES	2	2			
	User authentication, Sessions and session					
	Web security, Scripts security.					
	9. INTRODUCTION TO WEB SERVICES	4	4			
	Introduction to web services, Definition, Se					
	Web services families, Web services prot					
	Web service infrastructure, UDDI.					

	Total			28	28			
15.	15. Laboratory							
	<ol> <li>Introduction to C language and HTML.</li> <li>Building a client and server applications using TCP sockets.</li> <li>Install and Configure Apache web server and build a basic HTML based Web page.</li> <li>Experimenting with HTTP protocol and HTML (Get and Post methods and Forms)</li> <li>Create a dynamic user interface for a web page using Java script</li> <li>More Java Script dynamic page interfaces</li> <li>Design and experiment with server side scripting by creating a counter for a web page (use files)</li> <li>Design a basic database driven application (example: basic library system).</li> <li>Design user authentication enabled web site with security features.</li> </ol>							
16.	Total Student Learning Time (SLT)	Face to Face Total G		uided and Independent Learning				
	Lecture	(Hour)			28			
	Tutorials							
	Laboratory/Practical	28			14			
	Presentation							
	Assignment	-			10			
	Project	-		10				
	Mid Term Test	1		3				
	Final Exam	2		15				
	Sub Total	59		175	80			
17.	Total SLT Credit Value		139/40 = 3	3.4/5 =:	> 3			
18.	Reading Materials :		3					
10.	Textbook		Reference	Materia	ıls			
	Deitel, Internet and World Wide Web How to Program, Prentice Hall, 2008.		<ol> <li>Douglas E. Comer, Internetworking with TCP/IP Vol.1: Principles, Protocols, and Architecture, 5/E, Prentice Hall, 2006.</li> <li>Godbole and Kahate, Web Technologies: TCP/IP top Internet Application Architectures, McGraw Hill, 2003.</li> <li>Bates, Web Programming: Building Internet Applications, John Wiley, 2002.</li> <li>Deitel, Internet and World Wide Web How to Program, Prentice Hall, 2004.</li> <li>Bai, et al, The Web Warrior Guide to Web Programming, Thomson, 2003.</li> <li>David M. Geary, Advanced JavaServer Pages, Barnes and Noble, 2001.</li> <li>Martin, J., "TCP/IP Networking - Architecture, Administration, and Programming", Prentice-Hall, 1994.</li> </ol>					
2.	Appendix (to be compiled when submitting the complete syllabus for the programme):  1. Mission and Vision of the University and Faculty  2. Mapping of Programme Objectives to Vision and Mission of Faculty and University  3. Mapping of Programme Outcome to Programme Objectives  4. Programme Objective and Outcomes (Measurement and Descriptions)							