ST. MARY'S COLLEGE FORM U6

SUBJECT- COMPUTER SCIENCE

Course Outline

Term 1

Proposed Date/Week	Unit/Section	Topic	Modules
Wk 1-4	Operating Systems and Computer	Operating Systems	:01 - Introduction to Operating Systems
	Networks		:02 - The BIOS
			:03 - The Boot Process
			:04 - Job Control Languages
			:05 - Process Management
			:06 - Pipelining
			:07 - Multitasking
			:08 - Scheduling Algorithms
			:09 - Memory Management
			:10 - Language Translators
			:11 - Summary of Key Terms
Wk 5-6	Software	The Systems Development	:01 - Phases of SDLC
	Engineering	Life Cycle	:02 - Life Cycle Models
			:03 - Analysis Phase - Tools
			and Techniques
			:04 - DFD Example
			:05 - Design Phase - Tools
			and Techniques
			:06 - Guidelines for Interface
			Design
			:07 - Development and
			Testing of The New System
			:08 - Program Testing
			:09 - Program
			Implementation
			:10 – Issues Confronting
			Modern Computer Systems
			Intellectual Property
			Shareware and Freeware
			Privacy
			Data Protection
			Computer Misuse Threats
			Tilleuts

Wk 7-10	Operating Systems and Computer Networks	Computer Networks	:01 - Distributed Systems :02 - Ads & Disads of Distributed Systems :03 - Types of Networks -LAN -WAN -WAN -MAN -VPN :04 - Network Topologies -STAR -BUS -RING -TREE -MESH :05 - Network Terminology Explained :06 - Ethernet :07 - Token Ring :08 - FDDI :09 - VPNs :10 - Communications Media :11 - Summary of Broadband Technologies :12 - The OSI Model :13 - VOIP & Cellular
			:12 - The OSI Model :13 - VOIP & Cellular Networks :14 - Data Strategies for Large Scale Systems (Flat
Wk 11-12	First Draft of Internal	Assessment Due	Files vs SQL)

Term 2

Proposed Date/Week	Unit/Section	Topic	Modules		
Wk 1-2	Data Structures	Abstract Data Types	:01 - Arrays		
			:02 - Linear Lists		
			:03 - Queues		
			:04 - Stacks		
Wk 3-4		Sorting and Searching	:01 - Bubble Sort		
		Algorithms	:02 - Insertion Sort		
			:03 - Selection Sort		
			:04 - Heap Sort		
			:05 - Linear Search		
			:06 - Binary Search		
Wk 5-10		Internal Assessment Work			
	Revision and Past Papers Final Internal Assessment Due – Carnival Friday				
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Term 3

CAPE EXAMINATIONS