

ST. MARY'S COLLEGE
FORM U6
SUBJECT- COMPUTER SCIENCE
Course Outline 2016-2017
Term 1

Proposed Date/Week	Unit/Section	Topic	Modules
Wk 1-4	Operating Systems and Computer Networks	Operating Systems	:01 - Introduction to Operating Systems :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 Engineering	The Systems Development Life Cycle	:01 - Phases of SDLC :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
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 -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 Networks
Wk 11-12	First Draft of Internal Assessment Due		

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 Algorithms	:01 - Bubble Sort :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		

Term 3

CAPE EXAMINATIONS