

INFORMATION TECHNOLOGY
CAPE UNIT 1 OUTLINE
CHRISTMAS TERM PLAN 2023

Dates	Topics	Content	Suggested Assessment
Week 0 Sept. 05 - 09	<i>Course Overview</i>	Syllabus Requirements of IA	
Week 1 Sept. 11 -15	<i>The Field & History of Information Technology</i>	Definition and Scope of Information Technology (usage, limitations, related fields) Professional Organisations Brief history of <ul style="list-style-type: none"> ● computer hardware (categorised by size and processing ability) ● Software ● Internet ● Telecommunications. 	Reading Assignments, Quizzes, Classwork assignments.
Week 2 Sept. 18 - 22	<i>Distinguishing Data, Information & Knowledge</i>	Definition of terms and examples Data: include unprocessed, unorganised and discrete (in separate, unrelated chunks), qualitative (opinion-based, subjective) or quantitative (measurement-based, objective), detailed or sampled. Information: including distortion, disguise, reliable, inconsistency, Incomprehensible, subject to interpretation, value, relevance, confidentiality,	Classwork, group discussion, presentations

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		<p>timeliness, completeness, security, shareability, availability, lifespan, information as a commodity, format and medium</p> <p>Knowledge: Use of information for decision making: data quality; appropriateness of data.</p>	
	<i>Internal Assessment</i>	Problem Definition of IA	
<p>Week 3 Sept. 25 - 29</p>	<i>Types of Information Sources</i>	<p>Traditional and electronic information sources: including people, books, journals, catalogues, magazines, newspapers, libraries, CD-ROMs, DVDs, electronic databases, web sites, blogs, wikis, social media.</p> <p>Primary and secondary information sources.</p> <p>Advantages, disadvantages of information sources.</p>	<p>Research and graded presentation on the content.</p> <p>Classwork, group discussion, presentations.</p>
	<i>Internal Assessment</i>	Finalise problem definition	Submission of Problem Definition
<p>Week 4 Oct. 02 - 06</p>	<i>Characteristics of Information Sources</i>	Include availability, cost, and currency of information, amount of detail (depth), breadth of coverage, reliability, format and medium.	Classwork, group discussion, presentations
	<i>Internal Assessment</i>	Meet in groups to discuss and create Gantt Charts	
Week 5	<i>Criteria for Selecting</i>	Including: bias, accuracy, cultural context,	Reading Assignments,

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Oct. 9 - 11	<i>Information Sources</i>	completeness, currency of information, refereed and un-refereed sources, characteristics of information on the Internet.	Quizzes, Classwork assignments.
	<i>Internal Assessment</i>	Discuss Analysis of Problem	Submission of Gantt Chart
Midterm - October 12- 16			
Week 6 Oct. 17 - 20	<i>Information Processing</i>	Definition of information processing (input process, output process); manual versus automated information processing; components of manual information processing: collect, collate, analyse, present and disseminate; components of automated information processing: input (data capture or entry), process (for example, analyse, sort, calculate), store, retrieve, output (present and disseminate); transmit data and information. Interrelationship between data and information through information processing. Types of manual and automated information systems.	Classwork, group discussion, presentations
	<i>Internal Assessment</i>	Work on Analysis of Problem	
Week 7 Oct. 22 - 27 Six Week Test			
Week 8	<i>Representing Data and Information</i>	Data: including character, string, numeric, aural and	Classwork, group discussion, presentations

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Oct. 23 – 27		<p>visual.</p> <p>Information: including text, graphics, signals (analogue, digital); sound, video, special purpose notations (mathematical, scientific and musical notations); graphical representations (graphs and charts); tables. Morse Code, musical symbols, ASCII, (American Standard Code for Information Interchange); binary.</p>	
<p>Week 9 Oct 30 – Nov 3</p>	<p><i>Tools in Information Technology</i></p>	<p>Hardware, (for example modem) software and communication tools; advantages and disadvantages; tools associated with the Internet including on- line services; search engines; VoIP, SMS Discussion Forum/Board telnet, ftp (upload/download), message board, mailing list, social media tools, web-conferencing tools, cross-platform messaging tools.</p>	<p>Reading Assignments, Quizzes, Classwork assignments.</p>
<p>Week 10 Nov. 6 - 10</p>	<p><i>Information Systems</i></p>	<p>Definition; types of Information Systems.</p> <p>Transaction Processing Systems, Management Information Systems, Office Automation Systems/ Knowledge Work Systems, Decision Support Systems, Executive Information</p>	<p>Classwork, group discussion, presentations</p>
	<p><i>Internal Assessment</i></p>	<p>Analysis of Problem</p>	<p>Submit Analysis of Problem</p>

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		Systems). Expert systems definitions and examples; personnel; major input and output from each type of information system, such as data, information, processed transactions. Reports including detailed, summarised, exception, ad hoc.	
	<i>Internal Assessment</i>	Identifying Tools for Solution	
Week 11 Nov. 13 - 17	<i>The relationship among the components in an Information System</i>	Relationship among the components: hardware, software, data, procedures, users, network.	Classwork, group discussion, presentations
	<i>Internal Assessment</i>		
Week 12 Nov. 20 - 24	<i>Hardware: Purpose & Functions</i>	Hardware (input, output, storage, processor and peripheral devices)	Classwork, group discussion, presentations
	<i>Internal Assessment</i>		
Week 13 Nov 27 – Dec 1	<i>Software: Purpose & Functions</i>	Purpose, functions and types of software including application, system (operating systems, language translators, and utilities); software; embedded systems (monitoring and control systems)	Reading Assignments, Quizzes, Classwork assignments.
Second Six Week Test			

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December 4 to 8

Dec 11-14 Dec 15- Lapathon	<i>Distinguish among different types of HCI;</i>	<i>Differences among the types of HCI including forms, menu, command line, natural language, graphical user interface (GUI), speech and direct manipulation.</i> Internal Assessment -Justification of solutions	<i>Class activity, Presentations, group work.</i>
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END OF CHRISTMAS TERM – Dec 19