Table : Summary of Information on each course/module

(Subject 1)

No.	Item	Detailed	Information	1	
1.	Name of Course/Module	Introduction to Information			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, so Explain the factor systems usability, to developments and elements of Identify the basic system hardware a software.  - Identify the conces and enterprise comes of Identify the conces of IT.  - Justify the need for management provise understand the hum Systems, in relation	students are s influencing he latest tech trends in the components nd the varioupts of information and IT persupport of ethics in explore the soor integrity, sessions in informan aspect on to ethical is	information nnological IT industry of compute is types of ation proce ms develop sonnel struct in a typical I cial implicate ecurity, and mation syst	ssing ment, cture. T tions
		and don'ts of comp			
3.	Content outline of the Course/N	lodule and the Student Le			
	Topic		GLT	ILT	Total
	INTRODUCTION TO COMPUTERS A word of computers What Is Computer? The Components Of A Computer Why Is A Computer So Powerful? Networks And The Internet Computer Software Categories Of Computers Elements Of An Information System Example Of Computer Usage Computer Applications In Society		6	8	14
	THE COMPONENT OF THE SYSTEM OF The system unit Processor Data representation Memory Expansion slots and adapter cards Ports and connectors Buses Bays Power supply Mobile computer and devices Putting it all together	JINI I	6	8	14

INPUT	4	4	8
What is input?			
What are input device?			
Input device for physically challenged users			
OUTPUT	4	4	8
What is output?			
Display devices			
Other Output Devices			
Output Device for physically challenged users			
STORAGE	4	4	8
USB			
Floppy & Zip Disk			
Hard Disk			
CDs and DVDs			
Tape			
PC Cards			
Miniature Mobile Storage Media			
Microfilm and Microfiche			
Enterprise Storage			
APPLICATION SOFTWARE	4	4	8
Application software	•		
Business software			
Graphics and multimedia software			
Software for home, personal, and educational use			
Application software for communications			
Application software on the web			
OPERATING SYSTEMS AND UTILITY PROGRAM	6	8	14
System Software			
Operating Systems			
Operating System Functions			
Operating Systems Utility Programs			
Types Of Operating Systems			
Stand Alone Operating Systems			
Network Operating Systems			
Embedded Operating Systems			
THE INTERNET AND WORLD WIDE WEB The internetHistory of	4	4	8
the internetHow the internet worksThe world wide webOther			
internet servicesNetiquetteWeb publishing			
COMMUNICATIONS AND NETWORKS	4	4	8
Communications			
Uses Of Computer Communications			
Networks			
Communications Software			
Communications Over The Telephone Network			
Communications Devices			
Home Networks			
Communications Channel			
Physical Transmission Media			
Wireless Transmission Media			
		l	

DATABASE MANAGEMENT	6	8	14
Data and Information			
The Hierarchy Of Data			
Maintaining Data			
File Processing Versus Database			
Database Management Systems			
Relational, Object-Oriented and Multidimensional Databases			
Web Databases			
Database Administration			
COMPUTERS AND SOCIETY, SECURITY, PRIVACY AND	4	4	8
ETHICS			
Computer Security Risks			
Computer Viruses, Worms and Trojan Horses			
Unauthorized Access and Use			
Information Theft			
System Failure			
Backing Up – The Ultimate Safeguard			
Internet Security Risks			
Ethics and Society			
Information Privacy			
Health Concerns of Computer Use			
INFORMATION SYSTEM DEVELOPMENT	4	4	8
What is the System development Cycle?			
What iniatiates the System Development Cycle?			
Planning Phase			
Analysis Phase			
Design Phase			
Implementation Phase			
Support Phase			
Total Student Learning Time	<u>56</u>	<u>64</u>	120

### (Subject 2)

No.	Item	Detailed	I Informatio	n	
1.	Name of Course/Module	Introduction to Problem S	olving and I	Programmin	g
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, students are able to:  -			ithms;
3.	Content outline of the Course/Mod	dule and the Student Lear	rning Time	per Topic	
	Topic		GLT	ILT	Total
	Historical Overview Of Computers - What is a Computer System - Hardware - Software - Programming languages		4	5	9
	Computer Programming - Introduction - What is Programming? - Classical Software Life Cycle		4	5	9
	Applying the software development meth - Case study - Algorithms	od	4	5	9
	Flowchart - Flowcharting symbols - Structured Programming - Programming Guidelines		4	5	9
	Problem solving and programming - Top down design and Structured programm	nings	4	5	9
	Sequence - Flowchart and algorithms		4	5	9
	Selection - Flowchart and algorithms		4	5	9
	Repetition (loop) - Flowchart and algorithms		6	8	9

Programming Process - Editing, compiling, and linking a C language program - Error types in Programming, What is a Program? - Sample C language Program	6	8	14
The C Programming Language - Background, keywords, identifiers, constants, string constants, operators, punctuators, The printf function, The scanf function	6	8	14
The C Programming Language - Expressions, Operators & Assignments - Selection - Making Decisions - LOGICAL OPERATORS / RELATIONAL OPERATORS: * If statement; * ifelse Statements * switch STRUCTURES	6	8	14
The C Programming Language - Loops: While loops, Do_While loops, The for Statement	6	8	14
The C Programming Language - Functions: Introduction to Functions; Storage Duration & Scope	6	8	14
The C Programming Language - Arrays: Introduction, Arrays and Functions	6	7	13
Total Student Learning Time	<u>70</u>	<u>90</u>	<u>160</u>

# Subject 3

No.	Item	Detailed	l Informatio	n	
1.	Name of Course/Module	INTRODUCTION TO B	USINESS		
2.	Content outline of the Course/N	odule and the Student Le	earning Tim	e per Topi	С
	Topic		GLT	ILT	Total
	Introduction to Business		6	10	16
	Business: 2006 and Beyond				
	Business Ethics and Social Respons	ibility	8	SS Fime per Topio	18
	<ul> <li>Economic Challenges for Global Dim</li> <li>The Forces of Demand and Supp</li> <li>Types of Competition</li> <li>Business Cycle, Monetary and Fi</li> </ul>	oly	8	10	13
	Competing in Global Markets      Absolute Advantage, Comparativ     Balance of Trade, Balance of Pay	•	8	10	18
	Starting and Growing your Business  Small and Large Businesses  Major Forms of Businesses  Advantages and Disadvantages of		8	10 10 10 10 10 10 10 10 10 10	18
	Starting Your Own Business: The En Alternative		8		18
	<ul> <li>Management, Leadership, and the Ir</li> <li>The Management Hierarchy</li> <li>Managerial Functions: Planning, and Controlling.</li> <li>Types of Planning and its Importations</li> </ul>	Organising, Directing,	8		18
	<ul> <li>Marketing Management Customer-Di</li> <li>Evolution of the Marketing Conce</li> <li>Developing a Marketing strategy</li> <li>Marketing Segmentation</li> </ul>	_	8		18
	Managing Financial Resources Financial Institutions  Role of Financial Manager  Sources of Funds	ncial Management and	8		18

•	The Financial Systems and Financial Institutions			
	Total Student Learning Time	70	<u>90</u>	<u> 160</u>

### (Subject 4)

No.	Item	Detailed Ir	formation		
1.	Name of Course/Module	INTRODUCTION TO ACCOU	JNTING		
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes  Content outline of the Course	At the end of this course, students are able to :-  - Identify the users of accounting information needs  - Explain the accounting process  - Apply the double entry system of recording preparation of financial statements  Evaluate accounting statements, systems a reports.  Create a set of transactions for a business own choice and apply the accounting processe/Module and the Student Learning Time per T			d heir
· ·	Topic		GLT	ILT	Total
	Introduction to Accounting Accounting equations and balance s	sheets	3	4	7
	Assets, liabilities and owner's equal Ascertainment and recording of data		7	7	14
	Business entries: Systems of book-keeping Books of original entry and supportin Ledger accounts, Trial Balance & Ad		7	8	15
	Periodic measurement of financia Revenue statements – preparation a Measuring revenue and expenses,		8	9	17
	Accounting concepts		8	9	17
	Balance day adjustments: Prepayments and Accruals Depreciation Bad and doubtful debts, Closing ent	ries, Reversing entries	8	9	17
	Preparation of financial statement Statement of Financial Performance Statement of Financial Position		8	9	17
	Analysis and interpretation of fina Ratio analysis	ancial statements	7	9	16
	To	otal Student Learning Time	56	64	120

## (Subject 5)

No.	Item	Detailed Inf	ormation		
1.	Name of Course/Module	Computing Mathematics			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16. Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, students are able to:  - understand various number representations;  - identify and describe a number of mathematical concepts needed in the study of computer arithmetic;  - apply the techniques of propositional calculus to decide the validity of arguments;  - identify the various concepts of sets and relations;  - differentiate between logic gates;  - simplify logic circuits;  - solve an equation or a large system of equations;  - apply the concepts of probability and combinatorial analysis			decide s;
3.		e/Module and the Student Learn			
	Topic		GLT	ILT	Total
	Binary Number System: Decimal System, Binary System, Binary Binary Substraction and Division, Comple		4 4		8
	Computer Codes: Number System, Octal System, Hexadecimal System		4	4	8
	Computer Arithmetic Mathematical Preliminaries, Exponential Computer Arithmetical & Errors	Form, Internal Representation,	4	4	8
	Logic Truth Tables: Conjunction, Disjunction, Propositions ar Contradiction	nd Truth Tables, Tautologies and	4	4	8
	Logic Truth Tables: Logical Equivalence, Algebra of Proposit Biconditional Statements, Arguments, Lo		4	4	8
	Sets and Relations: Sets and Elements, Universal Set, Empty Union and Intersection, Complements,	y Set, Subsets, Venn Diagrams,	4	4	8
	Sets and Relations: Algebra of sets, finite sets, Classes of Setunction.	ets, Ordered Pair, Relations,	4	5	9
	Boolean Algebra and Logic Gates: Duality, Basic Theorems, Order and Boo	lean Algebras	4	5	9
	Boolean Algebra and Logic Gates: Boolean Expressions; Sum of Products F Circuits	Form, Logic Gates, Logic	4	5	9
	Simplification of Logic Circuits: Minimal Boolean Expressions, Karnaugh Circuits	Maps, Minimal AND-OR	4	5	9

Vectors, Matrices, Subscripted Variables Vectors, Matrices, Matrix Addition and Scalar Multiplication, Summation Symbol, Matrix Multiplication, Square Matrices, Invertible Matrices, Determinants, Invertible Matrices and Determinants, Subscripted Variables	4	5	
Linear Equations Linear Equations in One Unknown, Linear Equations in Two Unknowns, System of Two Linear Equations in Two Unknowns, System of n Linear Equations in n Unknowns, Solution of a Triangular System, Gaussian Elimination, Determinants and Systems of Linear Equations	4	5	
Combinatorial Analysis Factorial Notation, Binomial Coefficients, Permutations, Permutations with Repetition, Partitions, Combinations, Tree Diagrams	4	5	
Probability Sample Spaces and Events, Finite Probability Spaces, Theorems on Finite Probability Spaces, Conditional Probability, Independence, Repeated Trials	4	5	•
Total Student Learning Time	56	<u>64</u>	120

### (Subject 6)

No.	Item	Detailed	Information		
1.	Name of Course/Module	Business Information Syste			
2.	Learning Outcomes  15. Mapping of the Course/Module to the Programme Aims  16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, so demonstrate an uninformation systems  - solve problems organisations, - describe the common today's organisation strategic directions of describe the mainformation within be and how this supple and strategic activitical dentify the concept environment and export of IT.  - Justify the need for management provis	and make on business ns and how of business anagement ousiness information of ethics in a eplore the social integrity, secial of ethics, s	e decision infrastructo these f of data ormation sy erational, the anisation a typical IT cial implicate curity, and	ns in ures of fit with and ystems tactical tions
3.	Content outline of the Course/N		Student Learning Time per Topic		
	Topic		GLT	ILT	Total
	Introduction to Information Systems ( Fundamental Concepts: Information Technologies The Need for IS: Business Applicate Management  Problem Solving and Decision Making	in Systems & tions, Development and	6 8 1		
	Information Systems Context IS supporting Decision-making (a of solving)	component of problem	6 8 14		
	Developing E- Business Systems:- Stages of IS development cycle, cor prototyping Implementing E-Business Systems	mputer-aided and	8	8	16
	Process and Data Modelling  Data Resource Management:- Types of Databases, Data wareh database structures, Data admin developments and Database acc	rehousing and mining, ninistration, Database		10	18
	Hardware, Operating Systems and Ne Computer Systems: End User & Er Computer Peripherals: Input, Output Technologies	nterprise Computing	6	8	14

Application Software/Databases Software for End- user Applications	6	8	14
Managing Data Resources			
Telecommunications & Networks, Internet, Intranet and Portals  Trends & Functions of telecommunications networks Technical telecommunications alternatives Internetworked E-business Enterprise for communication and collaboration	6	8	14
Organisational Infrastructure Solving Operational Business Problems Electronic Business Systems: cross-functional integrated enterprise applications	6	8	14
Electronic Commerce Solving Tactical & Strategic Business Problems E-Business Decision Support: Development of a Management Information Systems for management decision making	6	8	14
Current and Future Directions  Trends and Changes in E-business decision support systems:- Executive Information Systems, Expert Systems and Artificial Intelligence Technologies in Business Enterprise and Global Management of E-business Technology	6	8	14
Security, Privacy and Ethics in IS and Internet Security controls on IS systems Security management of E-Business:- strategies and defenses for security of E-business applications Ethical and Societal Challenges of E-business	6	8	14
Total Student Learning Time	<u>70</u>	<u>90</u>	<u>160</u>

### (Subject 7)

No.	Item	Detailed	Information	1	
1.	Name of Course/Module	Data Management	- IIIIOI III alioi		
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course,  - explain the role of countries information manage  - recognize the suital paradigms  - normalise a set of fire apply the principles systems  - demonstrate the opstorage mechanism  - formulate complex  - develop an applications systems.	database systems in ement ability of various database file structures as of relational database operation of the underlying in used by database systems a SQL commands action using fourth generation		
3.	Content outline of the Course/M	lodule and the Student Le	,		
	Topic		GLT	ILT	Total
	Introduction to Databases - Databases and databases users		3	4	7
	Database Environment - Database system concepts and Archite	ecture	8	9 17	
	Data Model     Data Modelling using Entity-Relationsh     Enhanced Entity-Relationship Modellin		8 9 1		17
	Relational Model - The Relational Model and Relational da - Relational Algebra	atabase constraints	8	9	17
	Normalization - Functional Dependencies and Normaliz Databases	zation for Relational	6	8	14
	Database Design - Practical Database Design Methodolog	gy using UML	7	8	15
	SQL - Schema definition, constraints and que - Assertions, Views and Programming te		7 8 ques 5 5		15
	Data Storage, Indexing - Disk organization, Views and Programi	ming Techniques			10
	Integrity and Security - Database Security, Authorization and E - Transaction processing concepts and		4	4	8
	Tota	I Student Learning Time	56	64	120

4.	Practical Topics	GLT	ILT	Total
	Structured Query Language (SQL) using MySQL ver 4.1. SQL: Data manipulation - CREATE, ALTER, DROP statements	7	11	18
	Structured Query Language (SQL) using MySQL ver 4.1.  SQL: Data Definition - INSERT, UPDATE, DELETE Statemets	7	11	18
	Total	14	22	36

### (Subject 8)

No.	Item	Detailed In	formation		
1.	Name of Course/Module	English			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, study Improve their reading or level materials. Write with sufficient bas with sufficient and corre Write with sufficient bas with sufficient and corre Choose, narrow, and for Write a thesis statement Develop paragraphs wis sufficient support. Organize essays in logical course.	omprehens sic rules of ct vocabula sic rules of ct vocabula ocus a subj nt. th one mai	grammar ary. grammar ary. ect.	and and
3.	Content outline of the Course/	Module and the Student Lear	ning Time	per Topi	С
	Topic		GLT	ILT	Total
	Introduction to the course. The Writing Process Stage 1: - Prewriting - Free Writing - Clustering - Journal - Asking Questions - Brainstorming		4	5	9
	The Writing Process Stage 1: - Prewriting Stage 2: - Planning - Drafting Stage 3: - Revising - Proofreading		4	5	9
	Punctuation Rules		4	5	9

Types of sentences	4	4	8
Clauses     Independent Clauses			
<ul><li>Independent Clauses</li><li>Dependent Clauses</li></ul>			
Kinds of sentences			
- Simple Sentences			
- Compound Sentences			
- Complex Sentences			
- Writing Compound – Complex Sentences			
• Style			
Paragraph Structure	4	5	9
The Three Parts of a Paragraph			
• The Topic Sentence			
Supporting Sentences			
The Concluding Sentence			
Unity and Coherence	4	5	9
Unity	4	5	9
• Coherence			
Coherence Through Related Sentence			
- Repetition of Nouns and Pronouns			
- Synonyms and Substitutions			
- Transitional Expressions			
Coherence Through Order			
- Time order			
- Space order			
- Order of Importance			
Chronological order:	4	4	8
Process Essays			
-Logical Division Of Ideas			
Moving from Paragraph to Essay- Introduction : Stating the thesis-	4	6	10
Body : Developing the thesis- Conclusion : Restating /			
Reemphasizing the thesis- Conclusion : Restating / Reemphasizing			
the thesis transitions between paragraphs			
Cause and Effect Essay	4	4	8
Organization for Cause and Effect Order  Rlock Organization			
<ul><li>Block Organization</li><li>Chain Organization</li></ul>			
Cause and Effect Signal Words			
Comparison and Contrast Essay	4	5	9
a Changa - at canaga at Canaga and an and Canatagat Changa			
Organization of Comparison and Contrast Order      Divid Comparison			
- Point- by-Point Organization		l	İ

Paraphrase & Summary	4	4	8
Paraphrasing			
- Plagiarism			
- Using paraphrases as support			
Summarizing			
Argumentative Essays	4	4	8
Organization of Argumentative essay			
Parallel structures	4	4	8
Parallelism with coordinators and correlative			
Sentence problems			
Noun , Adverb & Adjective clauses	4	4	8
• Sentences			
Punctuations			
Total Student Learning Time	56	64	120

### (Subject 9)

No.	Item	Detailed In	formation		
1.	Name of Course/Module	Business Programming with Jav			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, studen  Develop basic programs using  Differentiate and effectively use programming, such as the Selection and Rep  Understand and demonstrate to Inheritance, Polymorphism, Encapsulation  Define and use classes to perfusion  Compile and Debug JAVA pro	JAVA programe Control Strate Control Strate Control Strate Control Con	amming land ructures in rol Structuect ect conce design	ures
3.		Course/Module and the Student	_	_	
	Topic		GLT	ILT	Total
	Introduction - Programming concepts and - OOP features	principles	5	6	11
	Design and Primitive Data	Гуреѕ	7	8	15
	Errors and Selection - Logical errors - Syntax errors - IF, IFELSE and SWITCH	CASE statements	6	8	14
	OO Concepts and String All - Class - Object - Encapsulation - Polymorphism and Overload - Inheritance		6	8	14
	Keyboard Input and OO Imp	olementation	6	8	14
	Iteration - While() loop - dowhile() loop - for() loop		6	8	14
	Primitive and reference typ	es	7	9	16
	Variable Scope and Access - Class variable - Instance variable - Local variable - Private, Public, default acce		6	8	14
	Arrays & 2D arrays		7	8	15
	Testing		5	7	12

	Documentation: Packages, Random Number, output format	3	5	8
	Interface, Searching and Sorting	6	7	13
	Total Student Learning Time	70	90	160
4.	Practical Topics	GLT	ILT	Total
	Editing, compiling, running	2	3	5
	Java Introduction	2	3	5
	Error, selection, keyboard Input	2	3	5
	Selection, String API	3	3	6
	Compilation, error	2	3	5
	Keyboard Input	2	3	5
	OO Implementation	2	3	5
	OO Implementation, Iteration	2	3	5
	Iteration, Input process, Scope	2	3	5
	ArrayList and Array	2	3	5
	2D Array	3	3	6
	Random numbers, number formatting	2	3	5
	Searching, Sorting	2	2	4
	Total	28	38	66

No.	Item	Detailed Informat	ion	
1.	Name of Course/Module	Internet Technology		
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, students and the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, students are also below as a page of the end of this course, and the end of this course, are also below as a page of the end of this course, and the end of this course, are also below as a page of the end of this course, and the end of this course, and the end of this course, and the end of this c	es with HTMI ascading Sty th JavaScrip	L. rle t.
3.	Content outline of the Course/Mod	lule and the Student Learning Time	e per Topic	
	Topic	GLT	ILT	Total
	Introduction to HTML / Font Color and Character - What is Hypertext ? - Tags, Attributes , Value	aracter Entities 6	8	14
	List & Tables - Types Of List - List Attributes and Value - Why do we use tables? - ROWSPAN - COLSPAN	8	8	16
	Links and Images, Frames and Image Map - Types Of Hyperlink - The usage of Frames - How to targeting your frames - Using images as a hyperlink	<b>os</b> 8	8	16
	Cascading Style Sheets - What is CSS - The different types of CSS - Local and Global CSS - How to CREATE a CSS - How to APPLY a CSS	8	8	16
	Introduction to JavaScript - What is JavaScript ? - History of JavaScript - Alert Box, Confirm Box, Prompt Box - JavaScript Applets - Miscellaneous Application of JS Applets	8	8	16

	Selection Statements & Switch State: * SEQUENTIAL * SELECTION *		6	8	14
	Functions and Objects & Arrays - What is Function? - What is Array? - Applying Functions and Array.		4	6	10
	The HTML <form> Tag &amp; The String - What are the FORM Properties?</form>	g Objects	4	6	10
	Introduction to Perl - What is server side scripting? - Array in Perl - Forms		4	4	8
		Total Student Learning Time	56	<u>64</u>	120
4.	Other Additional Information	Practical	GLT	ILT	Total
		Basic HTML - Tags , Attributes , Value	2	4	6
		List & Tables - Types Of List - List Attributes and Value - Why do we use tables? - ROWSPAN - COLSPAN	4	4	8
		Links and Images, Frames and Image Maps - Types Of Hyperlink - The usage of Frames - How to targeting your frames - Using images as a hyperlink	4	4	8
		Cascading Style Sheets - What is CSS - The different types of CSS - Local and Global CSS - How to CREATE a CSS	4	4	8

	- How to APPLY a CSS			
	Introduction to JavaScript- What is JavaScript ?- History of JavaScript - Alert Box, Confirm Box, Prompt Box- JavaScript Applets- Miscellaneous Application of JS Applets	4	4	8
	Selection Statements & Switch Statements - The Control Structure :  * SEQUENTIAL  * SELECTION  * ITERATION  * CASE	4	4	8
	Functions and Objects & Arrays - What is Function? - What is Array? - Applying Functions and Array.	2	4	6
	The HTML <form> Tag &amp; The String Objects - What are the FORM Properties?</form>	2	4	6
	Introduction to Perl - What is server side scripting?	2	4	6
,	Total Student Learning Time	<u>28</u>	<u>36</u>	<u>64</u>

### (Subject 11)

No.	Item	Detailed Infor	mation		
1.	Name of Course/Module	Communication Skills			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, stude - Justify reason(s) for their decisions Justify the importance of communication [writing s skills/presentation via vis of workplace expectation - Address ethical issues the communication.	r commu integrat skills/spe sual and ns.	inication ed eaking data] a	n s part
3.	Content outline of the Course/Mo	 	na Time	per To	pic
	Topic		GLT	ILT	Total
	Part 1: Communicating in the Workplact 1a. Characterizing workplace communication - Intro to Technical Communication - Rhetorical Elements (overview)		4	5	9
	1b. Understanding workplace culture     - Culture and various definitions of culture     - Cultural awareness/ parallel     - Localization/ globalization     1c. Reading technical information     - Reasons for reading tech. info     - Strategies for reading	ire	4	5	9
	1d. Addressing audiences - Audience roles/ types/ purposes - Things that matter to audience 1e. Collaborating in workplace commun - Definition(s) and types of collaboration - Reasons for collaboration		4	5	9
	Part 2: Managing Critical Processes 2a. Locating and using information - Information/ knowledge - Available resources		4	4	8
	2b. Plan, Draft, Revise and Edit - Writing process(s)		4	5	9
	2c. Ensuring usability - Problem- solving approach		4	5	9
	Part 3: Shaping Information 3a. Organizing and designing informatio - Basic principles for information design		4	4	8

3b. Using visual forms and designing electronic communication - Functions of visuals	4	6	1
- Characteristics of electronic communication			
- Characteristics of electronic communication			
Part 4: Applying strategies	4	4	
4a. Explaining processes and procedures			
- Steps in effective process explanation			
Part 5: Preparing professional communication	4	5	
5a. Engaging in oral interaction			
- Public speaking skills			
- Power Point Presentation			
5b. Preparing correspondence	4	4	
- Business letter			
- Memo/ Fax/ E-mail			
5c. Preparing proposals	4	4	
- Proposal processes			
- Persuasion in proposals			
5d. Preparing reports	4	4	
- Types of reports		•	
- Planning a report			
5e. Preparing instructions and manuals	4	4	
- Value of instructions			
- Accessibility, Usability and Comprehensibility (analyze)			
Total Student Learning Time	56	64	1

No.	Item	Detaile	d Informatio	n	
1.	Name of Course/Module	Human Computer Interac	tion		
2. Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes  - Communication between engineers and soon-user interface developed.  - The future user interface and strategies for maconstructive.  - Expose the future user techniques, and idea provides the opporture usability.  - Introducing HCI literate future leaders of soft.  - To stress the importate design.				an factors puter scient bjects is imp ner with cor gn decisions te designer t face design ne skills in udents will fo	roved. ncepts s are to tools,
3.	Content outline of the Course/N		earning Tim	e per Topic	;
	Topic		GLT	ILT	Total
	<ul> <li>The Human</li> <li>To get started with HCI</li> <li>Fundamentals of HCI: The advantages and contribution of HCI</li> <li>Appreciating HCI</li> <li>Defining and using HCI</li> </ul>		4	4	8
	The Computer  • Accessing computers for all ages  • Interacting with computers with ease  • Deeper understanding of computer des	ign in terms of flexibility.	4	4	8
	<ul> <li>The Interaction</li> <li>The ability to design interactive systems.</li> <li>Observes the principles of interactive systems</li> <li>Code walkthrough of operator application</li> </ul>		4	4	8
	Paradigms  • Apply strategies for building interactive systems in the real – world of design.  • Understand the principles of usability paradigms		4	4	8
	Interaction design basics Independent and skilled in interactivity. Test specific error conditions in design Applying Models to give good start points in design		4	4	8
	HCI in the software process - Integrating software engineering into usability. • To learn how to use the software process.		4	4	8

Design rules     Create user-defined functions and Sub procedures	4	5	9
<ul> <li>Implementation support</li> <li>Understand the purpose implementation support.</li> <li>Analyze the purpose of programming support tools.</li> </ul>	4	5	9
Evaluation Techniques     analytic methods     review methods     Model-based methods.      Refine designs of software and systems with the use of evaluation techniques	4	5	9
Universal design	4	5	9
User support  - User support will be on:  • accurate and robust  • Consistent and flexible.  • presentation issues  •Implementation issues.	4	5	9
Cognitive models  • Understand the roles of Cognitive Models  • Appling the Cognitive Models	4	5	9
Socio-organizational issues and stakeholders requirements - capture both human and technical requirements.	4	5	9
Communcation and Collaboration models • face-to-face communication involves eyes, face and body	4	5	9
Total Student Learning Time	56	<u>64</u>	<u>120</u>

No.	Item	Detailed I	nformation	ı	
1.	Name of Course/Module	Visual Programming			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes  Content outline of the Course/	At the end of this course, students are able to a create console applications and windows VB.net			VB.net
0.	Topic	inodulo dila tilo otadolit 200	GLT	ILT	Total
	Introduction to .NET Framework  • Getting started with VB.net  • Understand and familiarise with Visual Studio.NET environment (IDE)  • Defining and using constants  • Declaring and referencing variables  • Assigning values to variables (use variables to store data)			8	14
	Data types and operators Identify the differences & use of arithmorphisms and logical operators. Code walkthrough of operator applications Operator precedence and parenthese	ation	7	9	16
	Controls and Loop Statements  • Understand and apply Loop clauses (DoWhile, DoUntil, ForNext)  • Understand and apply Conditional Statement clauses (IfElse, IfElseIfElse, Select Case)  Procedures and Functions  • Understand the context of procedures, sub procedures, methods and functions  • Create user-defined functions and Sub procedures  • Call user-defined procedures  • Advantages of general-purpose procedures  • Writing function procedures  • Using function to perform specific task		9	11	20
			9	12	21

	Windows Form Controls - Windows Properties - Windows Tool Bar - Windows Solution Explorer		10	14	24
	Event Handlers  • How to implement an event  • Explain what is an event handler a raiser / triggers  • Event declaration syntax	and the different types of event	7	9	16
	Arrays  Creating and accessing arrays (fixed-size & dynamic arrays)  Working with array elements  Using arrays  Additional types of arrays (control arrays & structures)  Dimensioning arrays (single & two dimensional arrays)		7	9	16
	Error handling  • Manage runtime errors using the TryCatch error handler  • Test specific error conditions using the Catch When statement  • Use the Err.Number and Err.Description properties to identify exceptions  • Build nested TryCatch statements		6	8	14
	OOP concepts in .NET framework - Class and Objects - Overloading - Overriding - Virtual Methods - Interfaces		9	10	19
		Total Student Learning Time	<u>70</u>	<u>90</u>	<u>160</u>
19.	Other Additional Information	Practical	GLT	ILT	Total
		Introduction to .NET IDE	2	3	5
		Data types and operator precedence	2	3	5
		Conditional Statements	2	3	5
		Loop Statements	2	3	5
		Windows Form Control	2	4	6
		Textbox and label control	2	4	6
		Checkbox, Radiobuttons and Picturebox	2	4	6
		Listbox, Combobox and Groupbox	2	4	6
		Listview Color Foot and	2	Л	6
		Listview, Color, Font and Dialogbox	2	4	6
		Listview, Color, Font and	3	4 4	6 7 7

Database Objects and Controls	4	8	12
Total Student Learning Time		<u>48</u>	<u>76</u>

No.	Item	Detailed Information				
1.	Name of Course/Module	Management Principles				
2.	Learning Outcomes	At the end of this course,	students a	re able to	) :-	
	15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	the management process				
3.	Content outline of the Course/l	Module and the Student L	earning Ti	ime per T	opic	
	Topic		GLT	ILT	Total	
	Introduction To Management - Man Roles- Essential Managerial skills- Ma Change		5	5	10	
	The Evolution of Management Theo	orv	5	5	10	
	<ul> <li>Management History</li> <li>Classical Approach: Taylor (Sciencti Fayol, Max Weber</li> <li>Organisational Behaviour Approach</li> <li>Contemporary Viewpoints</li> </ul>	ificManagement), Henri				
	Organisational Culture and Enviror - Internal Environment: Organisational External Environment: Assessing the Minimizing External Environment	al Design and Culture	5	6	11	
	International Management & Global Economy - Multinational and transnational corporations - National culture & Diversity at Workplace		5	6	11	
	Social Responsibility and Managerial Ethics - Classical and Socio-economic views of social responsibility - Corporate social responsibility and economic performance - Managerial Ethics			6	11	

Total Student Learning Time	56	64	120
Behavoual Theories, Contingency Theories (Fiedler Contigency, Hersey-Blanchard, Path-goal Model) Contemporary Issues in leadership - Foundations of Control Control process, Types & Focus of Controls Effective control, Dysfunctional controls			
Leadership & Foundations of Control - Leadership Style	6	6	12
Foundations of Behaviour  - Organisational Behaviour, Attitudes, Personality, Perception Motivation  - Motivation Theories: Maslow, Mc Gregor, Hertzberg, Mc Clelland, Reinforcement Theory, Expectancy Theory	5	6	11
<ul> <li>Managing Change and Innovation</li> <li>Forces of change, Resistance to change,</li> <li>Techniques for managing change,</li> <li>Contemporary issues in managimg change:- TQM, Reengineering, Learning Organisations, Stimulating Innovation</li> </ul>	5	6	11
Foundations of Organising - Organisation structure & application of organisational design - Job designs & job characteristics	5	6	11
Strategic Management and Decision Making - Levels of strategic planning - Strategic management process: SWOT, BCG Matrix	5	6	11
Foundations of Planning - Purposes, Myths & Types of Plans - Contingency Factors & Criticisms of Planning	5	6	11

No.	Item	Detailed In	formatio	n	
1.	Name of Course/Module	Business System Analysis			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, students are able to:  - Describe and demonstrate various roles of a systems analyst/developer  - Apply analysis and design methodologies a wide variety of problem domains, not just those involving the computer  - Effectively use software development tool like Ms-Visio for data modelling			
3.	Content outline of the Course/Mo	dule and the Student I ear	nina Tim	e ner To	nic
0.	Topic	date and the otagent Lear	GLT	ILT	Total
	Introduction to System Analysis ar -Understanding the Information System - The role of a system analyst		4	4	8
	2. Analyzing the Business Case - What is business process - Feasibility Studies		6	8	14
	3. Requirements Modeling - JAD - RAD		6	10	16
	4. Data and Process Modeling - DFD - ERD		4	6	10
	5. Communications Tools & CASE To - Visio - MsProject	ools	4	4	8
	6. Object Modeling - UML - Use Case Diagram		2	2	4
	7. Development Strategy -Analyzing Cost and Benefit - In-House or Over The Shelf?		2	2	4
	8. Financial Analysis Tools - Payback Analysis - ROI - NAV		4	6	10

	9. Project Management Tools - PERT / CPM Diagram - Gantt Chart - Ms Project		4	4	8
	10. Output and User Interface Design - Input Design ( Data Entry, Display) - Output Design ( Report , Printed Copy)		4	6	10
	11. Data Design - Data Structures		6	6	12
	12. System Architecture - Client-Server - Internet-Based		4	2	6
	13.System Implementation - Training - Data Conversion - System ChangeOver		4	2	6
	14. Systems Operation, Support, and Security - User Support - System Maintenance - System Security		2	2	4
		otal Student Learning Time	<u>56</u>	64	120
19.	Other Additional Information	otal Student Learning Time Practical	<u>56</u> GLT	64 ILT	120 Total
19.		<del>.</del>			
19.		Practical Research : Example Of	GLT	ILT	Total
19.		Practical  Research : Example Of Information System  Research : Role Of	GLT 1	1 1 1	Total 2 2 2
19.		Practical  Research: Example Of Information System  Research: Role Of System Analyst  3 Company's Sample of Mission Statement and Business Profile  Organization Chart	GLT 1	1 1	Total 2 2 2 2 2
19.		Practical  Research: Example Of Information System  Research: Role Of System Analyst  3 Company's Sample of Mission Statement and Business Profile  Organization Chart  Fact Finding Technique	1 1 1 1 1	1 1 1 1 1 1 1	Total 2 2 2 2 2 2
19.		Practical  Research: Example Of Information System  Research: Role Of System Analyst  3 Company's Sample of Mission Statement and Business Profile  Organization Chart  Fact Finding Technique  Process Modeling	1 1 1 1 1 1	1 1 1 1 2	2 2 2 2 3
19.		Practical  Research: Example Of Information System  Research: Role Of System Analyst  3 Company's Sample of Mission Statement and Business Profile  Organization Chart  Fact Finding Technique  Process Modeling  Data Modeling	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 2 2 2	2 2 2 2 3 3 3
19.		Practical  Research: Example Of Information System  Research: Role Of System Analyst  3 Company's Sample of Mission Statement and Business Profile  Organization Chart  Fact Finding Technique  Process Modeling  Data Modeling  System Modeling	1 1 1 1 1 1 1 1	1 1 1 1 2 2 2 2	Total 2 2 2 2 3 3 3 3 3
19.		Practical  Research: Example Of Information System  Research: Role Of System Analyst  3 Company's Sample of Mission Statement and Business Profile  Organization Chart  Fact Finding Technique  Process Modeling  Data Modeling  System Modeling  System Design	1 1 1 1 1 1 1 1	1 1 1 2 2 2 1 1	Total 2 2 2 2 3 3 3 3 2 2
19.		Practical  Research: Example Of Information System  Research: Role Of System Analyst  3 Company's Sample of Mission Statement and Business Profile  Organization Chart  Fact Finding Technique  Process Modeling  Data Modeling  System Modeling  System Design  Process Design	1 1 1 1 1 1 1 1 1	1 1 1 1 2 2 2 1 1 2	Total 2 2 2 2 3 3 3 2 2 3
19.		Practical  Research : Example Of Information System  Research : Role Of System Analyst  3 Company's Sample of Mission Statement and Business Profile  Organization Chart  Fact Finding Technique  Process Modeling  Data Modeling  System Modeling  System Design  Process Design  Data Design	1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 2 1 1 2 2 2	Total 2 2 2 2 3 3 3 2 2 3 3 3 3 3
19.		Practical Research: Example Of Information System Research: Role Of System Analyst 3 Company's Sample of Mission Statement and Business Profile Organization Chart Fact Finding Technique Process Modeling Data Modeling System Modeling System Design Process Design Data Design Input Design	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 2 1 1 2 2 2 2 2 1 2 2 2 2 1 2	Total 2 2 2 3 3 3 2 2 3 3 3 3 3 3 3 3 3 3 3
19.		Practical  Research : Example Of Information System  Research : Role Of System Analyst  3 Company's Sample of Mission Statement and Business Profile  Organization Chart  Fact Finding Technique  Process Modeling  Data Modeling  System Modeling  System Design  Process Design  Input Design  Output Design	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2	Total 2 2 2 3 3 3 2 2 3 3 3 3 3 3 3 3 3 3 3
19.	Other Additional Information	Practical Research: Example Of Information System Research: Role Of System Analyst 3 Company's Sample of Mission Statement and Business Profile Organization Chart Fact Finding Technique Process Modeling Data Modeling System Modeling System Design Process Design Data Design Input Design	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 2 1 1 2 2 2 2 2 1 2 2 2 2 1 2	Total 2 2 2 3 3 3 2 2 3 3 3 3 3 3 3 3 3 3 3

No.	Item	Detailed Information			
1.	Name of Course/Module	Multimedia Technology			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16. Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, stu  - Explain various techn to Multimedia  - Identify the different of Multimedia such as 2D animations, digital vide sound editing.  - Create and manipula elements using multime in typical fluid mechanical fluid mechanical explain the important Multimedia Integration  - Authoring and Application  - Digital sound and mus	nologies element images eo, and te audic edia so ical app present ce steps tion dev	associa s of s, 3D digitals o and vio ftwarefo lications ration s of	deo rms
3.	Content outline of the Course/Mod	ule and the Student Learnin	g Time	per Top	oic
	Topic		GLT	ILT	Total
	Introduction to Multimedia - Why Multimedia - Getting started in Multimedia. Principles and some history of the field place.	first provide a sense of	4	4	8
	Multimedia Applications: Hardware a - Hardware - Software	and Software	5	5	10
	Multimedia Elements  • Text  • Audio  • Video  • Image		5	5	10
	Creating Multimedia Using Gimp - Create animated text - Create animated pictures - Change background/ gardient		6	6	12
	Multimedia Development Process  • Development and Multimedia Art Tear  • Guidelines to Development and Conte  • Methodology and Documentation Des	ent Management	5	5	10
	Multimedia and Internet Future Trends		5	5	10
	2D Graphic Design - create 2D graphic design		6	6	12
	3D Graphic Design - create 3D graphic design		5	7	12

Sound Editing - edit and record sound	5	5	10
Morphing - do morphing with pictures	5	8	13
Video Editing - create short movies in movie maker	5	8	13
Total Student Learning Time	56	64	120

No.	Item	Detailed Information					
1.	Name of Course/Module	Business Statistics	Business Statistics				
2.	Learning Outcomes	At the end of this course, studen	its are able to	o :-			
	15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	<ol> <li>To distinhuish between descriptive statistics and inferential statistics.</li> <li>To gain skills to gather, organize, summarize, and present data using statistics techniques.</li> <li>To recognize certain probability distributions as models of generic situations.</li> <li>To apply those models to estimate parameters and form hypothesis tests that aid decision-making.</li> <li>To apply data analyis by developing a mathematical equation to express the relationship between variables.</li> </ol>					
3.		rse/Module and the Student Lea	arning Time p	per Topic	ı		
	Topic		GLT	ILT	Total		
	What is Statistics? Types of Statistics Types of Variables Levels of Measurement		6	7	13		
	Describing Data: Frequency Distriples Presentation Frequency Distribution Graphic Presentation Histogram Stem-and-leaf etc.	ibutions and Graphic	6	7	13		
	Describing Data: Measures of Cer Dispersion Mean, Median & Mode Range, Variance & Standard Deviati Quartiles, Deciles & Percentiles Box Plots	•	6	7	13		
	Probability Concepts Definitions of Probability Rule of Probability		6	7	13		
	Discrete & Continuous Probability Probability Distribution & Random Value Mean, Variance & Standard Deviation Binomial Probability Distribution The Normal Approximation to the Bin	ariable on	6	7	13		
	Sampling Methods & The Central Sampling & Sampling Distribution The Central Limit Theorem Standard Error of the Mean		6	7	13		
	Estimation & Confidence Intervals Estimation of Population Mean Confidence Interval for Population M		6	7	13		

Tests of Hypothesis (One Sample & Two Sample Means)	6	7	13
Procedure for Hypothesis Testing			
Large Sample Test			
Small Sample Test			
Simple Linear Regression	8	8	10
Scatter Diagram			
Least Squares Regression Line			
Total Student Learning Time	56	64	12

No.	Item	Detailed	Information	า	
1.	Name of Course/Module	Advanced Web Developme	ent		
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, s  - Work Internet bases support online reso Wide Web  - Implement the exist and efficient web sign organisation for a west series.	d Computer urce present ting need for te	Program to ation on the a more effended	
	Out and and the Output	computer system and online presentation			
3.	Content outline of the Course/	Module and the Student L	earning i im	e per Topi	C
	Topic		GLT	ILT	Total
	Introduction Server side programming history		2	3	5
	Style Sheets Definitions of CSS, Usage		3	4	7
	Scripting Comparision of Scripting languages	3	4	5	9
	Interactive Programming DHTML, Javascripts		4	5	9
	PHP Programming 1 Input, Output, Variables		4	5	9
	Introduction to PHP 2 Looping, conditions		3	5	8
	Database Programming 1 MySql Introduction, Connect to data	ıbase	6	7	13
	Database Programming 2 Insert, Modify, Remove data		4	5	9
	Stock List Design of E-commerce site		3	4	7
	Business Rules Develop Business site		3	4	7
	Advanced PHP techniques 2 Cookies, Sessions etc		3	4	7
	XML Concepts and Development		3	4	7
	Tot	al Student Learning Time	<u>42</u>	<u>55</u>	<u>97</u>
4.	Other Additional Information	PRACTICAL	GLT	ILT	Total

CSS Style Sheet	3	3	<u>6</u>
PHP Introduction, Syntax, Variables	3	3	<u>6</u>
PHP Installation	4	4	<u>8</u>
PHP Condition, Loops, Arrays	3	3	<u>6</u>
PHP Functions, Forms, File	3	6	<u>9</u>
MySql Introduction, Syntax	3	3	<u>6</u>
MySql Connect	3	4	<u>Z</u>
MySQL create, insert, remove, where	3	6	<u>9</u>
PHP ODBC	3	3	<u>6</u>
XML,	3	3	<u>6</u>
Total	28	35	<u>63</u>

# (Subject 19)

No.	Item	Detailed Inf	ormation			
1.	Name of Course/Module	MARKETING PRINCIPLES				
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, stude - explain theoretical prinic supported by research a economics, the behavior management theory demonstrate and apply the by analyzing a series of explain the role of market government or non-profit organisation or in the economics.	ples and cond eviden ural science theo cases eting withing to onomy as	les and concepts that are ad evidence from aral science and modern ese theoretical principles ases ing within a business,		
3.	Content outline of the Course	/Module and the Student Lea				
	Topic		GLT	ILT	Total	
	Inroduction to Marketing  - The evolution of marketing  - The modern marketing concept: Concept of Exchange  - Marketing Management & Tools to Facilitate Exchange: Strategic Planning, research, Marketing Mix		3	6	9	
	Seeking Competitive Advantage Strategic Planning SWOT Analysis, Internal Value Chair	n, 7-S Framework	9	11	20	
	Environmental Analysis - Macro Environment - Micro Environment		9	11	20	
	Market research - Marketing Intelligence Systems - Market Research Gathering Informa	ation	9	11	20	
	Understanding Customers - Consumer and Organisational Buyir	ng Behaviour	8	11	19	
	Understanding Market - Market Segmentation, Targeting and	d Positioning	7	11	18	
	Marketing Mix - Product Decisions & Lifecycle - Pricing strategy - Placement (Distribution) - Promoting		7	10	17	

Harmonising marketing activities - Internal Marketing	5	8	13
- Relationship Marketing			
Developing Competitive Advantage	5	8	13
Summarising the Marketing Process	4	7	11
Total Student Learning Time	66	94	160

No.	Item	Detailed	Information	1	
1.	Name of Course/Module	ACCOUNTING, DECISION			LITY
2.	Learning Outcomes  15. Mapping of the Course/Module to the Programme Aims  16.Mapping of the Course/Module to the Programme Learning Outcomes	Upon successful completic should be able to: - identify and explain society outline how individu accounting information - record accounting decounting analyse, the concept accounting reports.	on successful completion of the course, the student buld be able to:     identify and explain the role of accounting in society.     outline how individuals and organisations use accounting information.     record accounting data in a systematic manner.     understand, apply and be able to critically analyse, the concepts that underlie the major accounting reports.     prepare and use common financial and management accounting reports.     communicate findings from accounting information.		
		management accou - communicate finding information.			
3.	Content outline of the Course/I	vioquie and the Student Le			
	Topic		GLT	<b>ILT</b> 8	Total 14
	Introduction to accounting  The changing environment of accounting Decision making process & economy Nature of accounting & users of accounting information and decision Management and financial accounting Differences in Accounting Systems—a comparison with other countries Ethics and accounting	nic decisions counting information ns ing	6		
	Organisations and the accounting pr Types of business ownership Management functions Basic financial statements A = L + OE Effects of transactions on the accountinancial statements Transactions Source documents Accounting cycle The ledger account		6	8	14
	Recording accounting data  General ledger Chart of accounts Double-entry accounting General journal Transaction analysis Trial balance Preparation of financial statements		6	8	14
	Preparation of financial statements for Measurement of profit  The accounting cycle – further expanding control of adjusting entries	_	6	8	14

	1	ı	1
Adjusted trial balance to financial statements			
Worksheet and financial statements			
Financial statement and decision making			
Accounting for retailing/merchandise	6	8	14
Inventory			
Retail business operations			
Retailing and GST			
Periodic V Perpetual inventory system			
Detailed income statement			
Profitability analysis for decision making			
Using financial accounting reports for decision making	6	8	14
- Analysis and interpretations of financial statement	U		17
Sources of financial information			
The need for analytical techniques			
Percentage analysis			
Ratio analysis			
Limitation of financial analysis			
- Conceptual framework for Financial Accounting			
Qualitative characteristics of financial information			
Definitions and recognition of elements in financial			
statements			
<ul> <li>Asset, Liability, Owner's equity, Income and Expense</li> </ul>			
Underlying assumptions of financial statements			
Cash Flow Statements	6	8	14
Purpose and general format of cash flow statement			
Concept of cash			
Classification of cash flow activities			
Analysing the cash flow statement			
Limitation of the cash flow statement			
Management Accounting:	7	8	15
- The Entities Within (Departmental Accounting)	•		
Responsibility accounting			
Departmental/ segmental accounting			
- Departmental profit			
- Departmental contribution			
Planning & Control via Budgeting	7	8	15
	,	0	13
The nature of budgetary planning and control Organizational structure and budgeting			
Management participation and acceptance			
Benefits of budgeting			
The master budget			
Operating budgets and retail budgets for			
- service entities			
- retail entities			
- manufacturing entities			
Financial control with budgeting			
Quantitative Methods for management decision making;-	7	9	16
1. Cost-volume-profit (CVP) analysis			
Cost behavior			
Assumptions of CVP analysis			
Profit planning with CVP analysis			
Break-even analysis			
Margin of safety and target sales			
Analysing CVP relationships for profit planning			
		i .	1

	Quantitative Methods for many 2. Capital Budgeting Capital budgeting decisions Capital budgeting methods base Net present value Present value index Internal rate of return Other capital budgeting method Payback period Return on investment	ed on time value of money	7	9	16
	-	Total Student Learning Time	<u>70</u>	<u>90</u>	<u>160</u>
4.	Other Additional Information	Tutorial	GLT	ILT	Total
		Case Study 1	7	8	15
		Case Study 2	7	8	15
		Case Study 3	7	8	15
		Case Study 4	7	8	15
	-	Total Student Learning Time	28	<u>32</u>	60

No.	Item	Detailed	Information	)	
1.	Name of Course/Module	Industrial Training			
2.	Learning Outcomes  15. Mapping of the Course/Module to the Programme Aims  16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, s - Gain first-hand experience business profession application of variou - Work with other IT & - Experience the disciprofessional organis - Develop technical, in communication skills	experience of working as an IT or ssional, including the technical arious methods.  r IT & Business professionals.  discipline of working in a ganisation.  cal, interpersonal and skills, both oral and written.  ctions of professional with other		
	Comtant outling of the Occurre	Madula and the Civilagi La	anning Time		•
3.	Content outline of the Course/	Module and the Student Lea			
	Topic	atatan adamsta (1)	GLT	ILT	Total
	A form attesting to the Industrial Training undertaken must be signed by an employer for each period of Industrial Training.     The total approved work experience must exceed 60 working days. (at least cover a minimum of 8 weeks duration and 6 hours per day). Not be in full-time permanent employment		1	1	2
	Course Briefing		1	1	2
	Attending A week of intensive class Training Coordinator before the co- Industrial Training		20	20	40
	Monthly Report & Final Report     A report describing each pundertaken must be handed with the signed form, for reapproval by the Industrial report must be typed and a signed form.	d to the IT Department, cording in the Office and raining Coordinator. The	40	60	100
	Site Visit Assessment		6	6	12
	Presentation		2	2	4
	Total Student Learn	ing Time	<u>70</u>	<u>90</u>	<u>160</u>
4.	Other Additional Information	Practical	GLT	ILT	Total
	Accep Of Of	otance Of Internship Letter fer.	1	1	2

A form attesting to the Industri Training undertaken must be signed by an employer for the period of Industrial Training	4	1	2
Internship Briefing Project Proposal	8	16	24
Feasibility Study Internship Execution	30	30	60
1st Draft Of Industrial Training Report	4	10	14
Presentation	2	2	4
Final Documentation	4	10	14
Total Student Learning	Time 50	<u>70</u>	120

# Subject 22

No.	ltem	Detailed In	formation	1	
1.	Name of Course/Module	E-Commerce			
2.	Content outline of the Course/N	lodule and the Student Lea	rning Tim	e per To	pic
	Topic		GLT	ILT	Total
	E-Commerce Business Models & Co - E-Commerce Models - Major Business-to-Consumer Busine - Major Business-to-Business Busines	ss Models	5	6	13
	- Business Models in Emerging E-Com - How the Internet and the Web Chang	nmerce Areas ges Business			
	Competitive Advantage & Strategies	S	5	6	11
	E-Commerce Marketing Concepts & - Consumer Online: The Internet Audie - Basic Marketing Concepts - Internet Marketing Strategies - B2C and B2B E-Commerce Marketin - Online Market Research: Knowing Yo	ence and Consumer  ng and Branding Strategies	5	6	11
	In-depth Look at E-Retailing - The Retail Sector - Analyzing the Viability of Online Firm - E-Commerce in Action: E-tailing Busi - Some Common Themes in Online Re	iness Models	5	6	11
	M-Commerce		5	6	11
	Portal and Communities - Auctions - E-Commerce Portals - Online Communities		5	6	11
	In-depth Look at Online Services - The Service Sector: Offline and Onlir - Online Financial Services - Online Travel Services - Career Services	ne	5	7	12
	B2B E-commerce - B2B E-Commere and Supply Chain Note: Net Marketplaces - Private Industrial Networks	Management	5	7	12
	Group Project Presentation		6	8	14
	E-Commerce Infrastructure  - The Interner: Technology Backgroun  - The Internet Today  - Internet II: The Future Infrastructure  - The World Wide Web  - The Internet and the Web: Features	d	6	8	14

Security & Encryption  - The E-Commerce Security Environment  - Security Threats in the E-Comemrce Environment  - Technology Solutions  - Policies, Procedures, and Laws	6	8	14
E-Commerce Payment Systems - Payment Systems - Credit Card E-Commerce Transcations - E-Commerce Digital Payment Systems in the B2C Arena - Electronic Billing Presentment and Payment - B2B Payment Systems	6	8	14
Ethical, Social & Political Issues - Understanding Ethical, Social, and Political Issues in E-Commerce - Privacy and Information Rights - Intellectual Property Rights - Governance - Public Safety and Welfare	6	8	14
Total Student Learning Time	70	90	160

No.	Item	Detailed Info	rmation		
1.	Name of Course/Module	Project Deployment			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, students are able to:  - • Select and apply appropriate Software Development Life Cycle techniques to a given project (including appropriate use of knowledge);  - • Express concepts and structures using programming languages like Java, Pascal or any 4GL;  - • Program software application;  - heightened their learning experiences by project examples and assignments.  - Design and develop a desktop computer hard disl environment for Windows-based systems that will maximize computer resources and data security without unnecessarily compromising user access.  - Prepare and present written and oral reports on al phases of a computer information system life cycle			
3.	Content outline of the Cours	e/Module and the Student Lear		-	•
	Topic		GLT	ILT	Total
	Introduction - CIS in the Small Enterprise, - SDLC, - Prob. Identification		4	4	
	Approval of proposal - Student Skills Survey - Teams Formed		3	3	6
	Preliminary Investigation Intro. Portfolio Project, Process Modeling (DFDs) Contract Due		4	8	12
	Background Study, Requirement A - Data Modeling (ERDs) - Object Modeling	Analysis	3	5	8
	Project Planning - Project Management		3	10	13
	Requirements Modeling - System Modeling - System Design		3	5	8
	Data Flow Design - Menu Tree - FDD - Process Design - Coding		6	10	16

	User Interface Design Input and Output Design File and Form Design Report and Query Design		9	9	18
	Design Review - Prototyping - 4GL Programming		6	6	12
	System Testing - Networks - Testing - Training		9	10	19
	Documentation - Maintenance and Review - User Manual - Final Report		20	20	40
	Total Student Learning Time		<u>70</u>	<u>90</u>	<u>160</u>
4.	Other Additional Information	Practical	GLT	ILT	Total
		Writing Proposal	2	2	4
		Team Contract	1	1	2
		Fact Findings	2	4	6
		Project Contract	2	2	4
		Gantt Chart	1	1	2
		Process Modeling	2	4	6
		Data Modeling	2	4	6
		System Modeling	2	4	6
		Custom Design	2	4	6
		System Design		4	6
		Process Design	2	4	6
		Process Design	2	4	6
		Process Design Data Design	2 2	4 2	6 4
		Process Design Data Design Input Design Output Design Prototype	2 2 2 2 2	4 2 4 4 4	6 4 6 6 6
		Process Design Data Design Input Design Output Design	2 2 2 2	4 2 4 4	6 4 6 6

No.	Items	Detail Information				
1.	Name of Course/Module	CONSUMER BEHAVIOUR				
2.	Learning Outcomes	At the end of this course, students are able to:  - explain the environmental influences and their effects on consumers which include factors sugas culture, social group, social class and famil  - describe the psychological factors such as motivation, attitudes and perception and their influences on consumption behaviour.  - possess knowledge and skills necessary to analyconsumers' behaviour to develop effective marketing strategies.				
3.		rse/Module and the Student Le		1		
	Topic		GLT	ILT	Total	
	Consumer Behaviour  Roles of consumers/customers Research Perspectives and meresearch Framework for Culture Common characteristics, Various culture Culture within the marketing consumers	ethodologies in consumer e Formation and Change ous perspectives & Elements of	5	5	10	
	Subcultures Types of subcultures: social gro Macro influences: gender, age, influences on consumers and be	lifestyles, and situational	5	5	10	
	Social Class Symbols of social status, social Measurement of social classes Social class differences & its im marketing	& its problems	5	5	10	
	Groups Constitution of a group, Classific Reference groups) Types of reference groups and Social Group: Family - Family vs. household; Stage Relevance of the stages of family and marketing Family decision making process counsumer socialisation	its influence on marketing s of family life cycle ly life cycle in segmentation	5	5	10	

	-		
Lifestyle Definition, Measurement of lifestyle and Importance of lifestyle in marketing Income Types of Income considered in consumer research Consumer sentiment & its impact on purchasing behaviour Relative-income hypothesis; Permanent-income hypothesis	5	5	10
Personality General nature of personality Qualitative and Quantitative personality theories Self-concept theory	5	5	10
Emotion Concept of emotion, Common emotional elements Use of emotions in marketing	5	5	10
Learning Basic learning principles Positive and negative reinforcement Classical and instrumental conditioning Cognitive learning theory; Memory systems	5	5	10
Motivation - Concept of needs, wants, goals and motives - Characteristics & Functions of motives - Motivation process: Maslow's hierarchy of needs	5	5	10
Perception Stages of Perceptual Process; Subliminal Perception Dynamics of perception: selective perception, expectations, perceptual organization, distortion influences Variety of cues used to perceive the quality of products/services Perceived risk	5	5	10
InvolvementConcept of involvement; Factors influencing involvementHow involvement influences purchasing decisionsMarketing implications of involvement	5	5	10
Brand Preferences Repeat purchase markets Generalisable patterns of buyer behaviour;- Dirichlet model Double Jeopardy patterns Duplication of Purchase Law	5	5	10
Innovation Continuous, Dynamic continuous and Discontinuous innovations; Diffusion process Stages of the adoption process; Categories of adopters Role of the utility awareness theory	5	5	10
Market Segmentation Criteria for market segmentation: demographic, psychographic Techniques used to determine segmentation bases A priori and post hoc segmentation: Positioning	5	5	10

Consumer Research	5	5	10
Paradigms of positivism and interpretivism			
Exploratory and problem-solving research			
Qualitative & quantitative research; Primary and secondary			
data			
Consumer research process			
Consumption and Purchasing Behaviour	5	5	10
Traditional decision making process, Problem recognition			
Information search & Process of identifying alternative			
Decision rules			
Post-purchase evaluation; Input-process-output model			
Total Student Learning Time	80	80	<u>160</u>

Table 3: Summary of Information on Elective subjects

(Subject 1)

No.	Item	Detailed Information				
1.	Name of Course/Module	Human Resource Manag	gement			
2.	Learning Outcomes  15. Mapping of the Course/Module to the Programme Aims  16. Mapping of the Course/Module to the Programme Aims  16. Mapping of the Course/Module to the Programme  Learning Outcomes	At the end of this course, students are able to:  1. an application of the human resource manageme role in organisations, its different facets and its contribution to the achievement of corporate goals  2. an ability to tackle behavioural and work related problems and an appreciation of aspects of employee relations, equal opportunity and affirmative action.  3. an appreciation of employees as invested human				
		capital to secure compet advantage for the con				
3.	Content outline of the Course/Mod			e per Topi	С	
	Topic		GLT	ILT	Total	
	Development of Human Resource Mana Evolution of HRM, Challenges of the Conte		7	7	14	
	HRM Department and the Organisation, Role and responsibility of HRM department organisation, Importance of organizational plans, HRM accounting, Recruitment and S	t & its impact on the goals and corporate	7	7	14	
	Performance Appraisal Programs Purposes of perfromance appraisal (PA), R other HRM functions, Development of an e Performance Appraisal methods, Feedback Improving Performance	evaluation program,	7	7	14	
	Career Planning and Staff CounsellingR in career planningStages in employee care plateaus, Mid-career crisisCounselling: bas process, element of counselling	eer planning, Career	7	7	14	
	Training and Development Training: training needs analysis, principles of learning, training techniques, evaluating training, induction training, Development: development process & needs, job rotation, on-the-job experience, environment development techniques, external seminars			7	14	
	Organisational Morale Job satisfaction, productivity, work groups, reward systems, fringe beebfits, absenteein disrimination, change		7	7	14	
	Equal Opportunity and Affirmative Action Equal Employment Opportunity (EEO), disconfirmative action; Sexual Harassment at vertice EEO practice Affirmative Action: for women costs	crimination and work, Guidelines for	7	7	14	

Industrial Relations		7	7	14
Role of trade unions; Govern	nment regulations, Employer			
association structures				
Awards, agreements, Concil				
procedures;Collective barga				
	cedures; Dismissing employees,			
Negotiated grievances proce				
Occupational Health and S		8	8	16
	esponsibilites of Managers, Legal			
	mpensation, Accident Prevention,			
Health hazards at work, Stre	ss management			
Job Design		8	8	16
	job enrichment, job rotation, job	O		'0
enlargement, Job design prii				
descriptions	icipies, oob analysis a job			
Employee Benefits		8	8	16
	, Problems relating to benefits, Types	Ü		
of benefis, Early Retirement	, resisting to seneme, types			
5. 25.15.13, Zuriy Homorii				
	Total Student Learning Time	80	80	<u>160</u>

# (Subject 2)

No.	Item	Detailed Infor	mation			
1.	Name of Course/Module	Malaysian Economics	Malaysian Economics			
2.	Learning Outcomes	At the end of this course, students	s are able to :-			
	15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	firms and				
3.	Content outline of the Coul	rse/Module and the Student Learn	ing Time	per Topic		
	Topic		GLT	ILT	Total	
	Economic Perspective- Economic Opportunity Cost- Methodologies an Economic Model: Production Posssi Choices - Markets and the Modern Mifferent economic systems	d conceptual framework- bility curve- Macroeconomic	5	6	11	
	Supply & Demand - Role of Prices, Market Equilibrium - Application of demand and supply - Money market, Labour Market - Impact of Government Intervention subsidies	-	5	6	11	
	National Objectives and Measurer - Circular Flow Model; Business Cyc - National Objectives: Economic Gro Price Stability, External Viability & Ba	cles owth and GDP, Full Employment,	5	6	11	
	Aggregate Expenditures Model /K Multiplier	eynesian Macro Analysis & the	5	6	11	
	Aggregate Demand and Aggregate - Link Between AE and AD/AS	e Supply Model	6	6	12	
	Fiscal Policy     Discretionary vs. Non-discretionary     Methods of Financing Expenditure     Effectiveness of Fiscal policy     Public Debt		6	6	12	

Total Student Learning Time	56	64	1
Demand Management Policies - Phillips Curve & Stagflation	6	7	
International Economy -Exchange Rates Determinationa & Purchasing Power Parity -External Trade Policy; Protectionism	6	7	
Monetary Policy -Changes in Demand for and of Supply of Money -Cash rate and Exchange Settlement Account -Cause-effect chain of monetary changes -Effectiveness of Monetary policy	6	7	
Money and the Financial System -Role of Central Bank -Money Supply and Demand: Credit Creation	6	7	

# (Subject 3)

No.	Item	Detailed Information			
1.	Name of Course/Module	Financial Management			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes  Content outline of the Course/Module	At the end of this course, students are able to :-  - Understand and explain the factors influencing stock prices, risks and returns on investment in a wide variety of securities;			
J.	Topic	dule and the Student Learn	GLT	ILT	Total
	Debt Financing and valuation Describe the different types of govt and how bond prices are established. How investors estimates the rates of rerisks	·	11	11	22
	Equity financing and valuation - How stock prices are established - How investors estimate the types of re	turn they expect to earn.	11	11	22
	Investing in Long-Term Assets: Capital - Cost of Capital - The Basics of Capital Budgeting Cash Flow Estimation and Risk Ana - Estimating and identifying cash - Evaluating capital budgeting pro - Introduction to project risk analy	alysis flow ocess	11	11	22
	Capital Structure and Dividend Policy - Capital Structure and Leverage - Dividends and Share Repurchases		11	11	22
	Working Capital Management  - Managing Current Assets and liabilit  - Financing Current Assets - sources, term credit  Mortgages and other consumer loans Finance Leases  - Borrowings with unequal ash flows  - Unequal cash flows and intervals  - Complications in borrowing d	forms and costs of short-	12	12	24
	Current Asset Management- Rationale Concepts of collection and disbursement assets holdings- Accounts-receivable m management, Just-in-time inventory con-	t of cash- Variations in liquid anagement - Inventory	12	12	24

Derivative and risk management	12	12	24
Total Student Learning Time	80	80	<u>160</u>

# (Subject 4)

No.	Item	Detailed Information				
1.	Name of Course/Module	Work & Organisation				
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	Setelah mengikuti mata pelajaran ini, pelajar dapat :  - explain the significance of the institutionalisation and organisation of work and its management.  - demonstrate an awareness of the relationship between internal and external socialisation processes.  - identify and analyse organisational problems and then select the means for their resolution.  - critically assess the value of change strategies for an organisation.				
3.	Content outline of the Course/Mo	dule and the Student Lear	_			
	Topic		GLT	ILT	Total	
	Understanding Work and Organisation. The nature and meaning of work; The pure theories of organizations:- bureaucr scientific management of work, social classical universal theory of managements systems	atic organisation, organisation of work,	4	8	12	
	The Challenge to Contingency Theory Contingency approach - Population ecology theory Institutional theory Resource dependence theory Organizational economics:- agency theo	ory, transaction cost theory	4	8	12	
	Structural Tensions in Work Organisation Vertical and Horizontal dimensions; Dep Coordination; Division of labour; Cent Decentralization Distribution and legitimating of authority	artmentation and	4	4	8	
	Control: The Maintenance of Workforce - Control processes; Means of Control - Control and the organization of work: I Process theory, Karl Marx, Harry Baverr - Control by management design	Braverman & Labour	5	5	10	
	Technology, Work and Organization Post-Fordism - Technology and producti Performance and Productivity Learning from Japan	ion systems;	5	5	10	

The Individual at Work.	6	6	12
Perception; Individual Differences			
Motivation and Orientations to Work. Theories of motivation	6	6	12
Job restructuring and organisational development			
Social Relations at Work. Formal and Informal group; Group and Inter-group behaviour Group Effectiveness	5	5	10
Human Resource Management. Roles of HRM and its impact on work and organization;- complementing with organization mission & goals; boosting productivity at workplace (career planning, training, job satisfaction, employee reward scheme)	5	5	10
Organisation Culture	4	4	8
Conflict Management and Dispute Resolution. Sources, Forms and Perspectives on conflict Management strategies for handling conflict	4	4	8
Transitional Dimensions of Work and Organisation Management Levels in an Organisation Functional Areas in an Organisation Qualities of Valuable Information Types of Information Systems	4	4	8
Sources, Forms and Perspectives on conflict  Management strategies for handling conflict			
Total Student Learning Time	56	64	120

(Subject 5)

(Sub	ject 5)					
No.	Item	Detailed Information				
1.	Name of Course/Module	DECISION SUPPORT MANAGEMENT				
2.	Learning Outcomes	Upon successful completion of the course, the student will:				
		a) appreciate the complexity of management decision making				
		b) recognize the value of information as a means of planning and control for a business				
			c) distinguish the hard and soft characteristics of system development problems for administrators and end-user developers.			
		d) map the range of systems development p choice of systems	oroblem	s again	st the	
		development methods and methodologies design and implement a user friendly decisi a business	on supp	ort syst	tem for	
3.	Content outline of th	e Course/Module and the Student Learnin	g Time	per To	pic	
	Topic		GLT	ILT	Total	
	Decision Making as a Mar	nagement Function	3	4	7	
	Schools of Management 7					
	Levels, types and stages of Models of decision-making					
		d information systems in managerial				
	Control and Feedback	valationals with control and information	3	4	7	
		relationship with control and information rtainty and uncertainty conditions				
	Classical control systems					
	Models of Decision-Makin		4	6	10	
	Simon's model of decision Vicker's alternative view o					
	vicker's alternative view o	i decision-making				
	Decision-Making, Systems		6	7	13	
	Major components of a sy Identify the environment o					
	Open and closed systems	•				
	Phases of intelligence, de Decision modelling tools	sign and choice				
					4.0	
	Decision Support Tools: E - Definition of decision su		6	7	13	
	Characteristics of a decisi					
	Types of decision-making Benefits & Limitations of a	& decision support systems decision support system				
		Model: Planning the Content Model: Defining the Layout	2	4	6	
		-				

	Decision Support Tools: Major characteristics of Types of problem suited - Types of decision sup - Benefits and limitation	6	8	14	
	Decision Support Tools: - Characteristics of exp - Types of problem suit - Types of decision sup Benefits and limitations	6	8	14	
	responsibilities as end-u		6	7	13
		Total Student Learning Time	<u>42</u>	<u>55</u>	<u>97</u>
19	Other Additional Information	PRACTICAL	GLT	ILT	Total
		Introduction to Microsoft Excel: What is a Spreadsheet?	3	З	<u>6</u>
		Gaining Proficiency: Copying, Formatting and Isolating Assumptions	3	3	<u>6</u>
		Spreadsheets in Decision Making: What	4	4	<u>8</u>
		If?	1	-	<u>의</u>
		Graphs and Charts: Delivering a Message	3	3	<u>6</u>
			3	-	_
		Graphs and Charts: Delivering a Message List and Data Management: Converting		3	<u>6</u>
		Graphs and Charts: Delivering a Message List and Data Management: Converting Data to Information/  Spreadsheet Audit  Designing a Spreadsheet Model: Planning the Content	3 3	3	<u>6</u>
		Graphs and Charts: Delivering a Message List and Data Management: Converting Data to Information/  Spreadsheet Audit  Designing a Spreadsheet Model: Planning the Content  Consolidating Data: 3-D Workbooks and File Linking	3	3 6	<u> </u>
		Graphs and Charts: Delivering a Message List and Data Management: Converting Data to Information/  Spreadsheet Audit  Designing a Spreadsheet Model: Planning the Content  Consolidating Data: 3-D Workbooks and	3 3 3	3 6 3 4	<u>6</u> 9 7
		Graphs and Charts: Delivering a Message List and Data Management: Converting Data to Information/  Spreadsheet Audit  Designing a Spreadsheet Model: Planning the Content  Consolidating Data: 3-D Workbooks and File Linking  Designing a Spreadsheet Model: Defining	3 3 3	3 6 3 4	<u>6</u> 9 7 9 9

No.	Item	Detailed In	formation		
1.	Name of Course/Module	Web Programming in Java			
2.	Learning Outcomes 15. Mapping of the Course/Module to the Programme Aims 16.Mapping of the Course/Module to the Programme Learning Outcomes	At the end of this course, students are able to :-  - List and discuss the importance of dynamic web page  - distinguish between Servlet and Java Serve Page (JSP)  - Explain and demonstrate the concept of JS JavaBeans, cookies, sessions and JSP tag extension and libraries  - Explain how Java application is used to con and manipulate SQL queries by going into a Database Connectivity  - Discuss the 3-tier architecture of application Understand the Big Picture of connecting the Client, Application Logic and Data.			rver JSP, ag control to Java
3.	Content outline of the Course/Mo	odule and the Student Lear	ning Time բ	er Top	ic
	Topic		GLT	ILT	Total
	Overview and setup of Servlet and JS - Installing the server - Configuring the server setup	SP	4	6	10
	Servlet basics - Handling Client Request: Form data - Handling Client Request: Request Hea - Generate server response - Handling cookies - Session Tracking.	nder	24	26	50
	JSP Basics - Invoke Java code with JSP scripting electron Controlling structure of generated Server Include Files and applets in JSP - JavaBeans components in JSP - Integrating Servlets and JSP: The mode Architecture - Simplifying Access to Java code - Basic concepts of PDEs - Classification of 2nd order linear PDES - Boundary and initial value problems - Method of separation of variables - Solution by Fourier series	rlets del view controller (MVC)	24	26	50
	Supporting Technology Accessing database with JDBC - Creating and processing HTML forms	-	4	6	10
	То	tal Student Learning Time	<u>56</u>	<u>64</u>	120
19	Practical Topics		GLT	ILT	Total

Java Servlet  ~ Handling Client Request: Form data  ~ Handling Client Request: Request Header  ~ Generate server response  ~ Handling cookies  ~ Session Tracking	4	6	10
JSP  ~ Invoke Java code with JSP scripting elements  ~ Controlling structure of generated Servlets  ~ Include Files and applets in JSP  ~ JavaBeans components in JSP  ~ Integrating Servlets and JSP  ~ Creating Custom JSP Tag libraries  ~ Simplifying MVC and Access to Java code	8	10	18
Supporting Technology:  ~ Accessing database with JDBC  ~ Configuring MS Access, MYSQL, and oracle 9i	2	6	8
Total	14	22	36

# (Subject 7)

No.	Item	Detailed Information				
1.	Name of Course/Module	Computer System				
2.	Content outline of the Course/M	odule and the Student Le	arning Time	per Topi	C	
	Topic		GLT	ILT	Total	
	PART 1: An overview of computer system architecture co		6	6	12	
	PART 2: Data in the computer Number systems Data format Representing Integer Data Floating Point Numbers		16	18	34	
	PART 3: Computer Architecture and I The Little Man computer The CPU and Memory CPU and memory: Design, Implement Input/Output Computer peripherals Modern Computer Systems, Clusters Three system examples	ntation, & Enhancement	28	32	60	
	PART 4: The software component Operating systems: An Overview		6	8	14	
	Tota	I Student Learning Time	56	<u>64</u>	<u>120</u>	



### **CENTRE FOR INFORMATION TECHNOLOGY STUDIES**

### **DIPLOMA IN BUSINESS INFORMATION SYSTEM (DBIS)**

Year		Course Code	Course Name	Credit	Status	REMARKS
		CIS1006	Introduction to Information Systems	3	Major	Jan 9 - Mar 4 : Lecture ( 7 weeks)
		CIS 1007	Introduction to Problem Solving & Programming	4	Major	Mar 5 -Mar 11 : Study week ( 1 week)
	Semester 1	MPW1113/1112	Bahasa Kebangsaan	3	Compulsory	Mar 12 -March 18 : Exam week ( 1 week)
	(7 weeks)					Semester Break - 2 weeks
						(March 19 - April 1)
				10		
		MGT 1008	Introduction to Business	3	Major	April 2 - July 15 : Lecture ( 14 weeks)
		ACC 1006	Introduction to Accounting	4	Major	July 16 -July 22 : Study week ( 1 week)
	Semester 2	MTH 1001	Computing Mathematics	3	Major	July 23 -July 29 : Exam week ( 1 week)
	(14 weeks )	ENL1007	English	3	Minor	Semester Break - 3 weeks
Year 1 ( 2012 )	(14 weeks)	CIS 1010	Business Information Systems	3	Major	(July 30 - Aug 19 )
		CIS 2005	Data Management	4	Major	
				20		
		ENL 1008	Communication Skills	3	Major	Aug 20 - Dec 2 : Lecture ( 14 weeks)
		CIS 3001	Internet Technology	3	Major	Dec 3 - Dec 9 : Study week ( 1 week)
	Semester 3 (	CIS 2001	Business Programming with Java I	4	Major	Dec 10 - Dec 16 : Exam week ( 1 week)
	14 weeks )	CIS 1001	Electronic Commerce	3	Major	Semester Break - 3 weeks
	14 weeks )	CIS 1012	Human Computer Interaction	3	Major	(Dec 17 - Jan 6, 2013 )
		MPW1143/1153	Islamic / Moral Studies	3	Compulsory	
				19		
		CIS2008	Industrial Training / Internship	6	Major	Jan 1 - Mar 3 1: Practical ( 12 weeks)
	Semester 1					
	(7 weeks)					Mar 11 -March 17: Presentation week
	( / weeks )					( 1 week)
				6		
		CIS 2004	Business Systems Analysis & Design	3	Major	April 1 - July 14 : Lecture ( 14 weeks)
		CIS 3003	Multimedia Technology	3	Major	July 15 -July 21: Study week (1 week)
	Semester 2	MKT 3005	Consumer Behaviour	3	Major	July 22 -July 28 : Exam week ( 1 week)
	(14 weeks)	CIS 2013	Visual Programming	4	Major	Semester Break - 3 weeks
rear 2 ( 2013 )	(14 weeks)	MGT 2022	Management Principles	3	Major	(July 29 - Aug 18 )
, ,		CSC2022	Programming with Java II	4	Major	
				20		
		MPWDIP1133	Pengajian Malaysia (Malaysian Studies)	3	Compulsory	Aug 18 -Dec 1 : Lecture ( 14 weeks)
		STAT 2001	Business Statistics	3	Major	Dec 2 - Dec 8 : Study week ( 1 week)
	Semester 3	CIS 2018	Advanced Web Development	3	Major	Dec 9 - Dec 15 : Exam week (1 week)
	( 14 weeks )	MKT 1004	Marketing Principles	3	Major	Semester Break - 3 weeks
		CIS 2009	Project Deployment	4	Major	(Dec 16 - Jan 5, 2014 )
		CIS 2003	I roject beployment		Intrajor	1000 10 3811 3, 2014 /
				16		

Total Credits 91

Elective Subjects			
MGT3006	Human Resource Management	3	Elective
CIS2014	Computer System	3	Elective
CSC3004	Web Programming in Java	3	Elective
CSC2021	Object-Oriented Analysis & Design	4	Elective