TAYLOR'S UNIVERSITY MODULES GUIDE

AMERICAN DEGREE TRANSFER PROGRAM

Programme Structure - American Degree Transfer Program (Study Intake May 2016)

No.	Module Title	Code	Credit Hours
	English Modules		
1.	Basic Writing II	ENGL093	3
2.	English Composition I	ENGL101	3
3.	Introduction to Creative Writing	ENGL210	3
4.	Reading and Writing Foundations	ENGL090	5
	Mathematics Modules		
1.	Calculus for Business I	MATH161	3
2.	Calculus for Business II	MATH162	3
3.	Calculus I	MATH171	5
4.	Calculus II	MATH172	5
5.	Calculus III	MATH271	5
6.	College Algebra	MATH110	3
7.	Differential Equations	MATH353	
8.	Discrete Mathematics	MATH208	3
9.	Linear Algebra	MATH319	3
10.	Pre-Calculus	MATH150	3
11.	Statistics I	MATH230	3
	Sciences Modules		
1.	Biological Science (with lab)	BIOL160	4
2.	Fundamentals of Chemistry (with lab)	CHEM101	4
3.	Fundamentals of Human Nutrition	NUTR201	3
4.	General Chemistry I (with lab)	CHEM105	4
5.	General Chemistry II (with lab)	CHEM106	4
6.	Nutrition for Health & Disease	NUTR202	3
7.	Organic Chemistry	CHEM221	4
8.	Physics for Science & Engineering I (with lab)	PHYS211	4
9.	Physics for Science & Engineering II (with lab)	PHYS212	4
	Computer Modules		
1.	C Programming for Science & Engineering	CSCI251	3
2.	Computer Programming - Java	CSCI117	3
3.	Introduction to Computers	CSCI101	3
4.	Programming in C++	CSCI102	3

Communication Modules		
1. Effective Public Communication	SPCH105	3
2. Interpersonal Communication	COMM105	3
3. Introduction to Communication	COMM101	3
Fine and Performing Arts Modules		
1. Foundations of Acting I	THTR101	3
2. Introduction to Film Studies	FILM101	3
3. Introduction to Music	MUSC103	3
Humanities Modules		
1. U.S History Since 1877	HISt106	3
2. U.S. History to 1877	HIST105	3
3. World Civilization I (to 1500)	HIST101	3
4. World Civilization II (from 1500)	HIST102	3
5. World Religion	WREL105	3
Social Sciences Modules		
1. American Government	POLS101	3
2. General Psychology	PSYC201	3
3. International Relations	POLS207	3
4. Sociology I	SOCS101	3
5. Sociology II	SOCS102	3
Business Modules		
1. Accounting I	ACCT201	3
2. Accounting II	ACCT202	3
3. Introduction to Business	GBUS102	3
4. Macroeconomics	ECON203	3
5. Microeconomics	ECON202	3
6. Pre Business	GBUS101	3
Engineering Modules		
1. Basic Mechanics I	MECH270	3
2. Engineering Problem Solving	ENGR196	3

Programme Structure - American Degree Transfer Program (Study Intake August 2016)

No.	Module Title	Code	Credit Hours
English Modules			
1.	Basic Writing II	ENGL093	3
2.	English Composition I	ENGL101	3
3.	English Composition II	ENGL102	3
4.	Introduction to American Literature	ENGL200	3
5.	Introduction to Creative Writing	ENGL210	3
6.	Reading and Writing Foundations	ENGL090	5
Mathematics Modules			
1.	Calculus for Business I	MATH161	3
2.	Calculus for Business II	MATH162	3
3.	Calculus I	MATH171	5
4.	Calculus II	MATH172	5
5.	Calculus III	MATH271	5
6.	College Algebra	MATH110	3
7.	Differential Equations	MATH353	
8.	Discrete Mathematics	MATH208	3
9.	Linear Algebra	MATH319	3
10.	Pre-Calculus	MATH150	3
11.	Statistics for Engineering & Sciences	MATH261	3
12.	Statistics I	MATH230	3
Sciences Modules			
1.	Biological Science (with lab)	BIOL160	4
2.	Fundamentals of Chemistry (with lab)	CHEM101	4
3.	Fundamentals of Human Nutrition	NUTR201	3
4.	General Chemistry I (with lab)	CHEM105	4
5.	General Chemistry II (with lab)	CHEM106	4
6.	Nutrition for Health & Disease	NUTR202	3
7.	Organic Chemistry	CHEM221	4
8.	Physics for Science & Engineering I (with lab)	PHYS211	4
9.	Physics for Science & Engineering II (with lab)	PHYS212	4
Computer Modules			
1.	C Programming for Science & Engineering	CSCI251	3
2.	Computer Programming - Java	CSCI117	3
3.	Introduction to Computers	CSCI101	3
4.	Object-Oriented Programming (C++)	CSCI221	3
5.	Programming in C++	CSCI102	3

Communication Modules			
1.	Advertising	ADVS210	3
2.	Business Communication	GBUS271	3
3.	Effective Public Communication	SPCH105	3
4.	Interpersonal Communication	COMM105	3
5.	Introduction to Communication	COMM101	3
Fine and Performing Arts Modules			
1.	Foundations of Acting I	THTR101	3
2.	Introduction to Film Studies	FILM101	3
3.	Introduction to Music	MUSC103	3
Humanities Modules			
1.	U.S. History Since 1877	HIST106	3
2.	U.S. History to 1877	HIST105	3
3.	World Civilization I (to 1500)	HIST101	3
4.	World Civilization II (from 1500)	HIST102	3
5.	World Religion	WREL105	3
Social Sciences Modules			
1.	American Government	POLS101	3
2.	General Psychology	PSYC201	3
3.	International Relations	POLS207	3
4.	Social Psychology	PYSC226	3
5.	Sociology I	SOCS101	3
Business Modules			
1.	Accounting I	ACCT201	3
2.	Accounting II	ACCT202	3
3.	Introduction to Business	GBUS102	3
4.	Macroeconomics	ECON203	3
5.	Microeconomics	ECON202	3
6.	Pre Business	GBUS101	3
7.	The Legal Environment of Business	BLAW331	3
Engineering Modules			
1.	Basic Mechanics I	MECH270	3
2.	Basic Mechanics II	MECH274	3
3.	Engineering Graphics	ENGR121	3
4.	Engineering Problem Solving	ENGR196	3
5.	Linear Circuit Lab	ELEC207	1
6.	Linear Circuit Theory I	ELEC201	3

**Note: Module Offered is subject to availability of lecturer. ADP reserved the right not to offer a course if there is less than 10 students enrolled for the module*

Module Synopsis – American Degree Transfer Program

Module	Code	Synopsis
Advertising	ADVS210	This is an introductory course that will focus on the foundation and basic principles of advertising, which emphasizes the theories, concepts and practice of this dynamic discipline. Students will learn what effective advertising is and how to measure it and will participate in hands-on activities designed to further reinforce the principles and theories of the subject. You will be exposed to various topics and contexts related to advertising and will study this material through readings, discussions, and activities.
American Government	POLS101	This course is an introductory survey of the United States national government. Topics covered include the American Federal system, national and state governments, the US constitutional principles, political participation, electoral process and functions of political institutions. This will include the theory and practice of politics, the organization and use of power at various levels, individual interest groups, organizations, the state and international relations. Emphasis will also be on the role of political parties, political ideologies, the relationship between the three main branches of government and the impact on public policy.
Basic Writing II	ENGL093	An English preparatory course which focuses on the development of both, academic writing and reading skills, as they are essential to succeed in any undergraduate setting. Grammar is incorporated and will be taught in context. To practice these skills, authentic course materials will be used as much as possible and a wide range of themes will be explored. A textbook is required for this module. Students will be exposed to a variety of academic texts over the period of fourteen (14) weeks.
Biological Science (with lab)	BIOL160	A one-semester course that incorporates both lectures and laboratory experiments. It is an introduction to the basic concepts of life at the molecular and cellular level. Students will learn about the important biomolecules, structures and functions of the cell, transport mechanisms across the cell, the genetics of life and the role of DNA, and the link between the transmission of genetic information to protein synthesis, applications in biotechnology, natural selection and population genetics. Open to all students interested in biology whether intending to major in the biological sciences, or to fulfil a Natural World / Life Science general education requirement

Module	Code	Synopsis
		for non-science majors requiring a 4 credit laboratory course.
Business Communication	GBUS271	This course meets three lecture hours per week. It prepares students to understand business communication in its ever changing environment in order to achieve individual and organizational success. The course involves exploring the basic foundation and principles of effective communication in business writing namely writing business memos, business reports, resume writing and presentations. The course also incorporates workplace etiquette for business communication and discusses the opportunities and challenges of intercultural business.
C Programming for Science & Engineering	CSCI251	This course provides the student with the opportunity to learn the basics of programming and algorithm development using top-down design with syntax and semantics of the C language. The course teaches the essentials of programming with a concentration on Science and Engineering Applications. This course will introduce the essential ideas of C programming and the breadth of discipline of computing. We will study fundamentals of language in details. This course will cover few advanced features which include Structs, Classes, Pointers, Data structures and file processing. No prior knowledge of C is required but students are expected to have a good understanding of computing environment and concepts.
Calculus for Business I	MATH161	Introduction to calculus with applications to business along with basic skills, algebra review, functions, graphs, limits, continuity, and derivatives. This course will develop skills in critical thinking, problem solving and discipline-specified knowledge. It will further refine the student's ability to apply mathematics to solve problems in business, finance, economics and life science. Math 161 is designed to help students develop a sound, intuitive understanding of the basic concepts of the techniques of differential calculus. The course emphasizes the importance of the derivatives of functions, and introduces students to differentiation with applications to business. During the course, students will master and apply new techniques to practical situations in business context. This is to help you gather information from a problem given, analyze it, form ideas about it, and effectively solve the problem with appropriate techniques and correct concepts.
Calculus for Business II	MATH162	An extension of MATH 161, this course will develop skills in critical thinking, and problem solving, and discipline-specified

Module	Code	Synopsis
		knowledge. It will further refine the student's ability to apply mathematics to solve problems in business, finance, economics and life science. Math 162 is designed to help students develop a sound, intuitive understanding of the basic concepts of the techniques of differential and integral calculus. The course emphasizes the importance of the derivatives of logarithmic and exponential functions, and introduces students to integration with applications to business. During the course, you will master and apply new techniques to practical situations in business context. This is to help you gather information from a problem given, analyze it, form ideas about it, and effectively solve the problem with appropriate techniques and correct concepts.
Calculus I	MATH171	The course concentrates on: Analytic Geometry, Functions, Limits, Continuity, Derivatives of Algebraic and Trigonometric Functions, Applications of Derivatives, and Integration.
Calculus II	MATH172	An extension of MATH 171, this course will develop skills in critical thinking, and problem solving, and discipline-specified knowledge. It will further refine the student's ability to apply mathematics to solve problems in sciences and engineering. Math 172 is designed to help students develop a sound, intuitive understanding of the basic concepts of the techniques of differential and integral calculus. The course emphasizes the importance of the functions, graphs, limits, continuity and derivatives. The course aims (a) to help students to understand thoroughly the concepts of differential calculus theoretically and computationally and how these concepts can be used in real-life situations, (b) to develop students' skills in creative problem solving, and (c) prepare them towards a higher level of mathematics.
Calculus III	MATH271	Analytic Geometry in Three-Dimensional Space. Partial Derivatives and Multiple Integrals of Functions of Two or more Variables. Vector Calculus. Applications.
College Algebra	MATH110	The course is meant for students who have little or no knowledge of the basic algebraic concept. The course gives added emphasis to the connections among graphical, numerical and algebraic concepts. It also emphasizes the connections between algebra and other branches of mathematics such as natural logarithms, Cartesian planes and more.

Module	Code	Synopsis
Computer Programming-Java	CSCI 117	This course will first lay a sound foundation on object-oriented programming concepts such as classes, methods, encapsulation, inheritance, polymorphism and then introduces to graphical user interface (GUI) using AWT, Swing class hierarchy, event driven programming, graphical components and introduction to Applet programming design.
Differential Equations	MATH353	The course is designed to serve the needs of a one-semester course in basic theory as well as applications of differential equations (D.E). Materials that will be introduced are : first and second order linear D.E. and their applications ; Laplace transform ; special functions and series solution of D.E. This course will develop skills in critical thinking and problem solving. It will further refine the student's ability to apply mathematics to solve problems in engineering, economics and science. Math 353 is designed to help students developing a sound, intuitive understanding of the basic concepts of the techniques of differential equations. During the course, students will master and apply new acquired techniques to solve practical problems in engineering and physics. This will also help the students to gather information from problems (projects) given and analyze it, and effectively solve the problems with appropriate techniques and correct concepts.
Discrete Mathematics	MATH208	Basic Set Theory and Symbolic logic. Methods of proof, including Mathematical Induction. Relations, Partitions, Partial Orders, Functions, and Graphs. Modular arithmetic.
Effective Public Communication	SPCH105	This course is designed to provide students with the basic skills of public speaking and to familiarize them with the principles of speech communication. The main thrust of the course is to provide them with the theory of public speaking and practical experience in preparing and delivering a speech whether impromptu, informative or persuasive. Students will learn the ability to adapt material to particular audiences, reason from evidence to conclusions, and organize ideas according to the demands of informative and persuasive public speaking situations. By the end of the course, students should be able to deliver ideas in public settings using an extemporaneous method of presentation with effective channelling of speech anxiety and will have developed critical listening skills and the ability to assess and evaluate messages.

Module	Code	Synopsis
English Composition I	ENGL101	English Composition 1 is a writing workshop. This course involves planning, writing, editing, revising and critical reading. Students will demonstrate their competence through a variety of writing assignments. Students will be introduced to the principles of essay writing as well as some (classification, cause-effect, narrative and argumentative) rhetorical modes. At the end of the course, students should be able to write academic essays on various contemporary/social issues.
English Composition II	ENGL102	An extension of ENGL 101, this course will develop skills in critical reading, and writing, and research strategies. It will further refine the student's ability to synthesize material from independent reading. English 102 is designed to help students develop sophisticated, situation-sensitive reading and writing strategies. The course emphasizes the importance of all stages of students' writing processes, including invention, drafting, revising, editing and proofreading. During the course, you will critically examine readings, discuss them intelligently, and generate your own ideas from these readings. This is to help you gather information, analyze it, form ideas about it, and effectively communicate these ideas to others.
Foundations to Acting I	THTR101	Students will explore basic techniques in freeing the actor's voice, imagination and physicality, as well as enhancing skills in working supportively and collaboratively with others in the creation of character, situation and role through devised work. This practical course work will focus on nurturing confidence, concentration, creativity, ensemble collaboration, physicality, rehearsal skills, sensory, script writing, speech and language, vocal ability and public performance.
Fundamentals of Chemistry	CHEM101	CHEM 101 is a one semester course for those who have not studied Chemistry as a subject in high school. It provides the physical science requirement in the major area of your study, or prepares you for subsequent General Chemistry classes. This course introduces the language and basic principles of chemistry along with problem solving. Emphasis will be placed on developing an understanding of chemical concepts and practices in the process of science through lectures and in the laboratory.

Module	Code	Synopsis
Fundamentals of Human Nutrition	NUTR201	NUTR 201 is an introductory nutritional science course that integrates basic concepts of science with the study of food and nutrition. Students will have a sound understanding of foundational concepts and theories relating to the six classes of nutrients, nutrient digestion and their absorption. Students will get to use dietary guidelines for evaluating and planning of healthful meals based on energy balance. This course is intended for all students who want an introduction to food and nutrition and, for those who may later choose a major in it. No college-level science background is required; rather the course will provide elementary aspects of the several biological sciences that are needed.
General Chemistry I (with lab)	CHEM 105	This course involves the study of basic chemistry phenomenological laws as well as their applications, matter, atomic structure, stoichiometry and chemical bonds. The objectives of this course are for student to understand the concept of matter, the different states and classification of matter. During the course you will learn the concept of atom, molecules, ions, the mole and molar mass, different types of chemical reactions and calculations in chemical reactions, the concept of ionic and covalent bonding, and the electronic structures of atoms and the arrangement of elements in the periodic table. You will also learn how to conduct experiments in the laboratory according to scientific methods.
General Chemistry II (with lab)	CHEM106	This course involves the study of phenomenological laws as well as atomic theories of chemistry in chemical equilibrium, directed valence, inorganic, organic, polymer and physical chemistry.
General Psychology	PYSC201	This course is designed to introduce Psychology as a scientific research based approach to understanding the fundamentals of mental and behavioral process. It includes theories and concepts ranging from a biological perspective to a socio-cultural one. This course will introduce the numerous but integrated subfields of psychology.
International Relations	POLS207	This course introduces students to international relations, one of the four sub-fields in political science. As a field of study, international relations focuses on the political, military, economic, and cultural interaction of state and non-state actors at the global level. The field, therefore, encompasses a diverse array of topics, from economic development to military conflict, from the environment to international

Module	Code	Synopsis
		institutions. In this course, we begin by exploring the key concepts, issues, and processes of international relations in order to provide the general knowledge and analytic tools necessary to understand, evaluate, and respond to a complex array of problems in the contemporary world.
Interpersonal Communication	COMM105	This course will focus on the communication that occurs in our interpersonal interactions. We will look at the concepts and principles of interpersonal communication, cover both verbal and non-verbal communication, and will include elements of intercultural communication throughout. We will seek to understand interpersonal communication from a variety of perspectives. You will be exposed to various topics and contexts related to interpersonal communication and will study this material through readings, discussions, and activities.
Introduction to American Literature	ENGL200	This is an introductory course for which no previous literary training is assumed. Focus is on the different genres-the short story, novel, poetry and drama. Students will learn how to interpret and appreciate selected works from American Literature. In so doing, it is hoped that students will develop an awareness of some formal aspects of literary works as well as an appreciation of some typical writers from various periods in American literary history. Typically in a semester, students will read at least one playwright and a minimum of two novelists in addition to the short stories and poems.
Introduction to Communication	COMM101	This course considers how the modern mass media developed and what they are developing into. We will examine why and how traditional mass mediums are converging with the new digital media and the social, political and personal impact of these changes. We will also be studying in-depth the traditional mass media that uses print, broadcast, sound and filmic ways of producing and conveying messages to audiences; and the evolution of these mediums in conjunction with broader historical and cultural changes.
Introduction to Computers	CSCI101	The aim of this course is to provide students with no or minimal background in computers with basic knowledge and skills in the computing environment, and to provide a foundation from which to advance to higher level courses in computer-related fields. The course introduces computer hardware and software, input and output devices, storage, Internet concepts and technologies, computer security and

Module	Code	Synopsis
		ethics, basic web-authoring skills, the functions of an operating system, data communications and networks, databases, computer programming concept and languages, and involves the practical use of Microsoft Word, Excel, PowerPoint, Access, Publisher, Visual Basic VDE, Internet browsers, utility software and web applications that includes social networking sites.
Introduction to Creative Writing	ENGL210	ENGL210 is an introduction to the art and craft of Creative Writing with a specific focus on personal monologue, poetry and short fiction. This is a writing-intensive course, which will be conducted as a workshop or studio, where students will be expected to write, read and critique each other's work on a weekly basis. This course will look at a range of classical and contemporary work in poets, prose/short fiction to help students create their own distinct voices and way of writing. Students will be expected to engage in critical discourse, and develop a way of using writing as a way of looking at the world, a way of seeing and expressing the human condition through words. Students will produce a Writing Portfolio by the end of the semester.
Introduction to Film Studies	FILM101	This course will acquaint students with the basics of film history, genre, and technique. It will examine the elements of the construction of narrative, documentary, experimental and animated film; aspects of production including cinematography, editing, and performance, It will address the role of the director and the definitions of film genre and style. These topics will be covered in a roughly historical framework with particular emphasis into its application in a modern cinematic worldview context, based upon the derivatives from filmic structures and paradigms. It will acquaint students with various critical theories to provide a framework for analysis. The overall thematic focus of the course will be on the relationship between film, modernism and the transition into the digital era of filmmaking.
Introduction to Music	MUSC103	MUSC 103 is an introductory music course, which is designed for students who are interested in music. This course will develop music listening and analyzing skills, basic music reading and composing skills, and music performing skills. The emphasis of the course is the different major music styles of the Western civilization, encompassing the characteristics of music from each era, different major types of compositions, and composers. During the course, you will learn elementary musical terminology and apply them effectively. You will

Module	Code	Synopsis
		further identify music from different major styles by critically listening and analyzing.
Linear Algebra	MATH319	An introduction to the basic concepts, computational techniques, and applications of linear algebra. Topics include system of linear equations, matrices, determinants, eigenvalues and eigenvectors, vector space and linear transformations. This module also aims to form a cohesive learning environment where mathematical research of linear algebra, matrix theory and others which are strongly related are brought together and viewed in terms of the real-world applications in which they emerge, such as computational engineering and sciences, and increasingly in social sciences and economics. It also prepares the students toward a higher level of mathematics.
Nutrition for Health & Disease	NUTR202	This course gives an introduction to organic chemistry, a branch of chemistry which involves carbon and hydrogen. It builds upon the concepts the student learnt from Chem 106. It involves the study of organic reactions and synthesis of compounds, and the exploration of various chemical reactions in building higher organic.
Object-Oriented Programming (C++)	CSCI221	This course discusses conceptual models for object-oriented programming and illustrates these with C++ programming language and application problems. This is an intermediate programming course and the topics include operator overloading, inheritance, polymorphism, templates, exception handling, fundamental data structures (including stacks, queues, and linked lists), the basics of algorithmic analysis, and an introduction to the principles of language translation.
Organic Chemistry	CHEM 221	This course gives an introduction to organic chemistry, a branch of chemistry which involves carbon and hydrogen. It builds upon the concepts the student learnt from Chem 106. It involves the study of organic reactions and synthesis of compounds, and the exploration of various chemical reactions in building higher organ.
Physics for Science & Engineering I (with lab)	PHYS211	First physics course of a two-semester sequence in introductory physics with laboratory for science and engineering students. This **calculus**-based study includes Newtonian mechanics, oscillation and waves, fluids, heat and thermodynamics. Science and Engineering students will understand the basic concepts, theories and principle of

Module	Code	Synopsis
		Newtonian Mechanics which include the description (kinematics) and cause (dynamics) of motion, the conservation ideas of energy, momentum, and angular momentum, the simple harmonic motion, circular motion and the concept of gravity. They will also study Heat and Thermodynamics, as well as Oscillation, Waves and Sound in the problem-based or project-based learning conducted in this course.
Physics for Science & Engineering II (with lab)	PHYS212	This course is the continuation of two-semester sequence in introductory physics with laboratory for science and engineering students. This **calculus**-based study includes electricity, magnetism, optics, and modern physics. Science and Engineering students will understand the basic concepts, theories and principle of Electricity, magnetism and optics. They will also study Nuclear Physics and modern physics in the problem-based or project-based learning conducted in this course.
Pre-Calculus	MATH150	The course concentrates on: Polynomial, Rational, Exponential, Logarithmic and Trigonometric Functions, with applications to problems in mathematics and the sciences.
Programming in C++	CSCI102	This course will provide students with no or minimal programming experiences the basics of C++ programming language. This course discusses fundamental conceptual models for object-oriented programming and illustrates these through C++ programming language and application problems.
Reading and Writing Foundations	ENGL090	First level basic writing course which introduces students to academic writing. Students will be taken step by step through the writing process, from formulating ideas through the revision stage. Students will be required to write effective paragraphs on contemporary subjects from health, cultures, social sciences, sciences and humanities that are relevant to their current or future academic coursework. Reading skills such as skimming, scanning making inferences etc would be emphasized. Much focus will also be devoted to the development of fluency and accuracy in applying grammatical structures. Students will be exposed to a range of themes throughout the course.

Module	Code	Synopsis
Statistics for Engineering and Sciences	STAT261	The course focuses on basic probability and statistics with applications and examples in engineering and the sciences. Quantitative and qualitative analysis of statistical data, descriptive statistics, elementary probability, random variables and their distributions, random processes and statistical inferences.
Statistics I	STAT230	An introduction to statistics for students from various disciplines (business, health, social sciences, science). This course is designed to help students learn basic concepts in descriptive and inferential statistics, and introductory probability. Key topics covered in this course include graphical representation of data, descriptive statistics, random variables, probability concepts and counting rules, discrete and continuous probability distribution, sampling, confidence intervals and sample size, hypothesis testing, test of difference between two means, proportions and variances, correlation and regression, other Chi-square tests and Analysis of Variance (ANOVA).
U.S. History Since 1877	HIST106	This course is a survey of the American history from the Reconstruction to the present. The class will examine the historical events, personalities, and factors that contributed to the development of the United States of America in the 19th and 20th centuries. The survey includes U.S. territorial and economic expansion, industrialization and urbanization, Manifest Destiny, reforms in the Progressive and New Deal eras, World Wars, world power status and post-war transformations.
U.S. History to 1877	HIST105	This course is a survey of the historical events, personalities and factors, which had contributed to the development of the United States of America from pre-Colonial era to the Reconstruction in 1865. The survey includes pre-Columbian times; the arrival of the Europeans, the American Revolution and independence from the British, the birth of a new nation and constitution, Western expansion, the attempt to break up the nation, Civil War and Reconstruction.
World Civilizations I (to 1500)	HIST101	This course is an introductory survey of the salient features in the development of world civilizations from Prehistoric times until 1500s. Emphasis is laid on the basic formative factors of historical development of societies and massive civilizations in the world to 1500s – economic, social, ideological, cultural, religious as well as political.

Module	Code	Synopsis
World Civilizations II (from 1500)	HIST102	This course is an introductory survey of the salient features in the development of world civilizations from 1500s to the present. Emphasis is laid on the basic formative factors of historical development in the world since 1600s – economic, social, ideological, cultural, religious as well as political. The course covers European overseas voyages, imperial expansion, revolutions against excessive government power and authority, and the development of new science and technologies. The course concludes with the formation of new international, national, religious identities in the last few decades.
World Religion	WREL105	A study of Eastern and Western religions beginning with prehistoric and primal religious sources and including the origins, teachings, practices and primary characteristics of contemporary major world religions. This course is designed to provide students with an overview of the major elements which give rise to the great religions of the world and to give them an international outlook. It will examine the religious and spiritual experience of different communities across time and space. The main emphasis will be to study the historical and doctrinal aspects of world religions, particularly Hinduism, Buddhism, Judaism, Christianity, Islam, Confucianism and Taoism. Primal religion will also be examined. The course will touch on the methodological issues arising in the study of religions and the current approaches to inter-faith dialogue.

SCHOOL OF COMMUNICATION

Programme Structure - Bachelor of Mass Communication (Broadcasting)

No.	Module Title	Code	Credit Hours
	Year 1		
	Semester 1		
1.	Communication Theory	COM60404	4
2.	Critical And Creative Thinking	COM60304	4
3.	Introduction to Mass Communication	COM60504	4
4.	Visual Communication	COM61004	4
	Total Credit		16
	Semester 2		
1.	Communication Research Fundamentals	RES60304	4
2.	Innovative Media	COM60904	4
3.	Intercultural Communication	COM60604	4
4.	Media Writing	COM60704	4
	Total Credit		16
	Year 2		
	Semester 3		
1.	Audience Studies	BCA60304	4
2.	Broadcasting Principles	BCA60104	4
3.	Writing For Broadcast	BCA60204	4
	Total Credit		16
	Semester 4		
1.	Interactive Media	COM61104	4
2.	Radio and TV Production	BCA60404	4
	Total Credit		8
	Year 3		
	Semester 5		
1.	Advanced TV Production	BCA60105	5
2.	Digital Storytelling and Production	BCA60604	4
3.	Media Law And Ethics	LAW64004	4
4.	Professional Media Workshop	COM60104	4
	Total Credit		17

Module Synopsis - Bachelor of Mass Communication (Broadcasting)

Module	Code	Synopsis
Advanced Television Production	BCA60105	This course outlines the TV production processes students undergo from conceptualization of ideas to the production of programmes. Students are evaluated from their ability to perform the various tasks involved in TV production.
Audience Studies	BCA60304	This course outlines the history, development, scope, structure and nature of audience studies strategies in various media industries as well as the trend and convergence in media studies. It also introduces the basic theories of audience studies.
Broadcasting Principles	BCA60104	To provide students with the basic understanding of the history, nature, operations, practice and scope of radio, television and web broadcasting. It is designed to help students comprehend the trend and convergence in broadcasting and the electronic media industry and what effects operations and development might have on individuals and the collective society.
Communication Research Fundamentals	RES60304	This course outlines the basic approach to research in the field of communication and mass media. It will provide students with a fundamental understanding of the various types of research approaches, namely quantitative and qualitative, and their respective methodologies that are appropriate to communication research. An introduction to a variety of descriptive and inferential statistical techniques that are normally used in communication research will also be provided. Students will also be thought how to read and review research journals as well as produce a research report.
Communication Theory	COM60404	This course outlines the concepts, roles, goals and changes in mass communication theories. It introduces the connections between communication theories and research. It also introduces the basic theories of mass media effects and media issues.
Critical and Creative Thinking	COM60304	This course outlines a comprehensive introduction to the cognitive process and helps students develop their higher-order thinking abilities needed for academic study and career success as critical and creative thinking skills are the cornerstones of higher education. It integrates various perspectives on the thinking process by fostering

Module	Code	Synopsis
		sophisticated intellectual and language abilities. It also shows that learning to think is a synthesizing process, knitting critical thinking and creative thinking abilities together with academic content and the fabric of students' experiences.
Digital Storytelling and Production	BCA60604	To provide students with the fundamental knowledge and understanding of multi-modal techniques to broaden horizons of the writer's craft, of their standing within the language and expression of creativity and representation, and of how they may be created using some basic digital software applications. To provide an opportunity for multi-modal narratives to advance and develop from conceptual to production stages.
Innovative Media	COM60904	This course is an introductory of new media studies and skill-based digital media course which enable students to explore, develop and apply in the areas of Mass Communication. It also ventures into creativity of digital media application by creating and manipulating various multimedia elements.
Interactive Media	COM61104	This course outlines the types of authoring platforms, interactive design principles, interactive scripting in authoring in the current industry practices. It also focuses on practical application of the current industry used application for both CD-ROM and online interactive applications.
Intercultural Communication	COM60604	This course outlines the personal and theoretical understanding of the cultural origin of people's values, ideologies, habits and how they affect communication across cultural, racial and ethnic lines. It also seeks to develop awareness and increased understanding among peoples of different cultures, an appreciation of this rich diversity, and to offer tools for a lifeline of continued growth in intercultural competence.
Introduction To Mass Communication	COM60504	This course outlines a basic understanding of the various types and roles of different traditional and new media industries as well as the related institutions of journalism, advertising and public relations and their respective structure, support and influence. Particular attention will be paid to mass communication issues relating to the rise of digital media such as trends, convergence, globalization and challenges. Mass media and communication in the Malaysian context will also be explored.

Module	Code	Synopsis
Media Law and Ethics	LAW64004	This course introduces the Malaysian legal system and judicial process. It discusses the laws and legal issues pertaining to the media, as well as ethical issues confronting professional communicators. It also discusses the important cases in media laws and ethics.
Media Writing	COM60704	This course prepares students to be able to write for the various media, each of which requires distinct styles and approaches. It takes the student through a survey of the different styles, understanding the nuances, and appreciating the underpinning theories that influence the crafting of written communication. Ample practice is given to developing the writing skills for efficient and effective writing for the media.
Professional Media Workshop	COM60104	This course will enable students to understand and visualize all the theories and concepts learned into application in the industry. It will also expose students to first hand of the latest happening and news of the industry and market place. They will also be informed of the expectation of fresh graduates like themselves upon graduation. The workshops will covers important areas in advertising, public relations, broadcasting, leadership as well as project management. It will be conducted by experts from communication field.
Radio and TV Production	BCA60404	This course outlines the nature of the radio and TV industries and audio visual production work. Students will learn to handle the whole process of producing radio and TV programmes which will range from news, entertainment, drama, sports and documentaries.
Visual Communication	COM61004	This course outlines the basic understanding of visual literacy and communication within the current media industries through the comprehension of design elements and principles. It also focuses on the practical application and ethical considerations of the visual aspect in screen and print based visual communication design.
Writing for Broadcast	BCA60204	To provide students with the basic understanding of the history, nature, operations, practice and scope of radio, television and web broadcasting. It is designed to help students comprehend the trend and convergence in broadcasting and the electronic media industry and what effects operations and development might have on individuals and the collective society.

Programme Structure - Bachelor of Mass Communication (Public Relations)

No.	Module Title	Code	Credit Hours
Year 1			
Semester 1			
1.	Communication Theory	COM60404	4
2.	Critical And Creative Thinking	COM60304	4
3.	Introduction to Mass Communication	COM60504	4
4.	Visual Communication	COM61004	4
		Total Credits	16
Semester 2			
1.	Communication Research Fundamentals	RES60304	4
2.	Innovative Media	COM60904	4
3.	Intercultural Communication	COM60604	4
4.	Media Writing	COM60704	4
		Total Credits	16
Year 2			
Semester 3			
1.	Promotional Writing	PRL60204	4
2.	Public Relations Principles	PRL60104	4
3.	Publicity And Media Relations	PRL60304	4
		Total Credits	12
Semester 4			
1.	Crisis Management	PRL60404	4
2.	Interactive Media	COM61104	4
		Total Credits	8
Year 3			
Semester 5			
1.	Financial Public Relations	PRL60504	4
2.	Media Law And Ethics	LAW64004	4
3.	Professional Media Workshop	COM61404	4
4.	Public Relations Consultancy	PRL60105	5
		Total Credits	17

Module Synopsis - Bachelor of Mass Communication (Public Relations)

Module	Code	Synopsis
Communication Research Fundamentals	RES60304	This course outlines the basic approach to research in the field of communication and mass media. It will provide students with a fundamental understanding of the various types of research approaches, namely quantitative and qualitative, and their respective methodologies that are appropriate to communication research. An introduction to a variety of descriptive and inferential statistical techniques that are normally used in communication research will also be provided. Students will also be thought how to read and review research journals as well as produce a research report.
Communication Theory	COM60404	This course outlines the concepts, roles, goals and changes in mass communication theories. It introduces the connections between communication theories and research. It also introduces the basic theories of mass media effects and media issues.
Crisis Management	PRL60404	This course outlines the key responsibilities of public relations in the contemporary world by understanding the importance of managing crisis locally and internationally. The course will introduce the students to different types of crisis and offers a wide range of frameworks and methods to managing crisis.
Critical and Creative Thinking	COM60304	This course outlines a comprehensive introduction to the cognitive process and helps students develop their higher-order thinking abilities needed for academic study and career success as critical and creative thinking skills are the cornerstones of higher education. It integrates various perspectives on the thinking process by fostering sophisticated intellectual and language abilities. It also shows that learning to think is a synthesizing process, knitting critical thinking and creative thinking abilities together with academic content and the fabric of students' experiences.
Financial Public Relations	PRL60504	This course outlines the basics of financial communication, with a focus on investor relations. It introduces the basic principles of how to interpret company reports, financial statements, and also what to communicate to key publics. Students are expected to keep up to date with current affairs, especially business news.

Module	Code	Synopsis
Innovative Media	COM60904	This course is an introductory of new media studies and skill-based digital media course which enable students to explore, develop and apply in the areas of Mass Communication. It also ventures into creativity of digital media application by creating and manipulating various multimedia elements.
Interactive Media	COM61104	This course outlines the types of authoring platforms, interactive design principles, interactive scripting in authoring in the current industry practices. It also focuses on practical application of the current industry used application for both CD-ROM and online interactive applications.
Intercultural Communication	COM60604	This course outlines the personal and theoretical understanding of the cultural origin of people's values, ideologies, habits and how they affect communication across cultural, racial and ethnic lines. It also seeks to develop awareness and increased understanding among peoples of different cultures, an appreciation of this rich diversity, and to offer tools for a lifeline of continued growth in intercultural competence.
Introduction To Mass Communication	COM60504	This course outlines a basic understanding of the various types and roles of different traditional and new media industries as well as the related institutions of journalism, advertising and public relations and their respective structure, support and influence. Particular attention will be paid to mass communication issues relating to the rise of digital media such as trends, convergence, globalization and challenges. Mass media and communication in the Malaysian context will also be explored.
Media Law and Ethics	LAW64004	This course introduces the Malaysian legal system and judicial process. It discusses the laws and legal issues pertaining to the media, as well as ethical issues confronting professional communicators. It also discusses the important cases in media laws and ethics.
Media Writing	COM60704	This course prepares students to be able to write for the various media, each of which requires distinct styles and approaches. It takes the student through a survey of the different styles, understanding the nuances, and appreciating the underpinning theories that influence the crafting of written communication. Ample practice is given to developing the writing skills for efficient and effective writing for the media.

Module	Code	Synopsis
Professional Media Workshop	COM61404	This course will enable students to understand and visualize all the theories and concepts learned into application in the industry. It will also expose students to first hand of the latest happening and news of the industry and market place. They will also be informed of the expectation of fresh graduates like themselves upon graduation. The workshops will covers important areas in advertising, public relations, broadcasting, leadership as well as project management. It will be conducted by experts from communication field.
Promotional Writing	PRL60204	This course introduces the concept of designing and writing promotional materials for a wide spectrum of communication media. It covers the scope and structure of the different forms of writing used in public relations, advertising and marketing.
Public Relations Consultancy	PRL60105	This course is designed to provide students with the essential knowledge and skills they need to excel in a professional working environment. It trains students to be critical, creative and professional when planning, managing and executing a public relations campaign.
Public Relations Principles	PRL60104	This course outlines the history and development of public relations, with an emphasis on providing the student with an awareness of various publics that an organisation interacts with. It also provides grounding for students to understand the need for a corporate strategic communication plan with a professional perspective. Students would be expected to keep up with current affairs.
Publicity and Media Relations	PRL60304	This course outlines the role of a public relations practitioner as a publicist in an organization. It also introduces to the various techniques of media relations, testing and evaluating publicity, and understanding the various types of publicity collaterals for the press.
Visual Communication	COM61004	This course outlines the basic understanding of visual literacy and communication within the current media industries through the comprehension of design elements and principles. It also focuses on the practical application and ethical considerations of the visual aspect in screen and print based visual communication design.

Programme Structure - Bachelor of Mass Communication (Advertising)

No.	Module Title	Code	Credit Hours
Year 1			
Semester 1			
1.	Communication Theory	COM60404	4
2.	Critical And Creative Thinking	COM60304	4
3.	Introduction to Mass Communication	COM60504	4
4.	Visual Communication	COM61004	4
		Total Credits	16
Semester 2			
1.	Communication Research Fundamentals	RES60304	4
2.	Innovative Media	COM60904	4
3.	Intercultural Communication	COM60604	4
4.	Media Writing	COM60704	4
		Total Credits	16
Year 2			
Semester 3			
1.	Advertising Principles	ADV60104	4
2.	Creative Copywriting	ADV60304	4
3.	Principles of Marketing	MKT60104	4
		Total Credits	12
Semester 4			
1.	Advertising Design And Execution	ADV60404	4
2.	Interactive Media	COM61104	4
		Total Credits	8
Year 3			
Semester 5			
1.	Advertising Campaign	ADV60105	5
2.	Media Law And Ethics	LAW64004	4
3.	Media Strategy	ADV60504	4
4.	Professional Media Workshop	COM61404	4
		Total Credits	17

Module Synopsis - Bachelor of Mass Communication (Advertising)

Module	Code	Synopsis
Advertising Campaign	ADV60105	Students will have hands-on, real-world advertising experience. They will work independently and in team settings to develop a comprehensive advertising campaign for a real client. As a truly hands-on experience, the teams will function as an advertising agency in which each student will play an important role.
Advertising Principles	ADV60104	This course outlines the history, development, scope, structure and nature of advertising, various media industries as well as the trend and convergence in Advertising. It also introduces the application of advertising in marketing campaign and account management.
Brand Management	ADV60604	This course outlines the theory and practice of brand management. It delves into the theories, concepts, issues, and principles, processes of Branding by considering it from the perspective of Marketing, Management, and Communication. It provides a viewpoint of the organization taking into consideration its competitive environment and the forces that affects its banding exercise. Students will have the opportunity to develop their portfolio in this Module through the development of branding through strategic processes.
Communication Research Fundamentals	RES60304	This course outlines the basic approach to research in the field of communication and mass media. It will provide students with a fundamental understanding of the various types of research approaches, namely quantitative and qualitative, and their respective methodologies that are appropriate to communication research. An introduction to a variety of descriptive and inferential statistical techniques that are normally used in communication research will also be provided. Students will also be thought how to read and review research journals as well as produce a research report.
Communication Theory	COM60404	This course outlines the concepts, roles, goals and changes in mass communication theories. It introduces the connections between communication theories and research. It also introduces the basic theories of mass media effects and media issues.

Module	Code	Synopsis
Creative Copywriting	ADV60304	This course is designed as a skills course focusing on the creative aspects of advertising specifically copywriting. The emphasis will be on how to research for information on both product and consumer and apply this information to develop creative ad copy for various media.
Critical and Creative Thinking	COM60304	This course outlines a comprehensive introduction to the cognitive process and helps students develop their higher-order thinking abilities needed for academic study and career success as critical and creative thinking skills are the cornerstones of higher education. It integrates various perspectives on the thinking process by fostering sophisticated intellectual and language abilities. It also shows that learning to think is a synthesizing process, knitting critical thinking and creative thinking abilities together with academic content and the fabric of students' experiences.
Innovative Media	COM60904	This course is an introductory of new media studies and skill-based digital media course which enable students to explore, develop and apply in the areas of Mass Communication. It also ventures into creativity of digital media application by creating and manipulating various multimedia elements.
Interactive Media	COM61104	This course outlines the types of authoring platforms, interactive design principles, interactive scripting in authoring in the current industry practices. It also focuses on practical application of the current industry used application for both CD-ROM and online interactive applications.
Intercultural Communication	COM60604	This course outlines the personal and theoretical understanding of the cultural origin of people's values, ideologies, habits and how they affect communication across cultural, racial and ethnic lines. It also seeks to develop awareness and increased understanding among peoples of different cultures, an appreciation of this rich diversity, and to offer tools for a lifeline of continued growth in intercultural competence.

Module	Code	Synopsis
Introduction to Mass Communication	COM60504	This course outlines a basic understanding of the various types and roles of different traditional and new media industries as well as the related institutions of journalism, advertising and public relations and their respective structure, support and influence. Particular attention will be paid to mass communication issues relating to the rise of digital media such as trends, convergence, globalization and challenges. Mass media and communication in the Malaysian context will also be explored.
Media Law and Ethics	LAW64004	This course introduces the Malaysian legal system and judicial process. It discusses the laws and legal issues pertaining to the media, as well as ethical issues confronting professional communicators. It also discusses the important cases in media laws and ethics.
Media Strategy	ADV60504	This course provides the in-depth learning of creative practices in the advertising media industry. It solely focuses on the creative process and execution of an advertising strategy/plan through the understanding of design and production fundamentals.
Media Writing	COM60704	This course prepares students to be able to write for the various media, each of which requires distinct styles and approaches. It takes the student through a survey of the different styles, understanding the nuances, and appreciating the underpinning theories that influence the crafting of written communication. Ample practice is given to developing the writing skills for efficient and effective writing for the media.
Principles of Marketing	MKT60104	This course introduces students to the key marketing concepts and strategies employed by marketers in facing the challenges in a dynamic business environment. It develops an understanding of the overall process of planning, implementation and control in the contemporary business environment. This course provides students with the needed conceptual skills to identify analyse and solve marketing problems. This course also provides a foundation for those who intend to further study in the marketing field or other business related courses.

Module	Code	Synopsis
Professional Media Workshop	COM61404	This course will enable students to understand and visualize all the theories and concepts learned into application in the industry. It will also expose students to first hand of the latest happening and news of the industry and market place. They will also be informed of the expectation of fresh graduates like themselves upon graduation. The workshops will covers important areas in advertising, public relations, broadcasting, leadership as well as project management. It will be conducted by experts from communication field.
Visual Communication	COM61004	This course outlines the basic understanding of visual literacy and communication within the current media industries through the comprehension of design elements and principles. It also focuses on the practical application and ethical considerations of the visual aspect in screen and print based visual communication design.

Programme Structure - Bachelor of Mass Communication (Public Relations and Marketing)

No.	Module Title	Code	Credit Hours
	Year 1		
	Semester 1		
1.	Communication Theory	COM60404	4
2.	Critical And Creative Thinking	COM60304	4
3.	Introduction to Mass Communication	COM60504	4
4.	Visual Communication	COM61004	4
		Total Credits	16
	Semester 2		
1.	Communication Research Fundamentals	RES60304	4
2.	Innovative Media	COM60904	4
3.	Intercultural Communication	COM60604	4
4.	Media Writing	COM60704	4
		Total Credits	16
	Year 2		
	Semester 3		
1.	Introduction to Management	MGT60104	4
2.	Principles of Marketing	MKT60104	4
3.	Promotional Writing	PRL60204	4
4.	Public Relations Principles	PRL60104	4
5.	Publicity And Media Relations	PRL60304	4
		Total Credits	20
	Semester 4		
1.	Consumer Behavior	MKT60204	4
2.	Crisis Management	PRL60404	4
3.	E-Marketing	MCM60105	5
4.	Interactive Media	COM61104	4
5.	Promotional Management	PRL60804	4
		Total Credits	21
	Year 3		
	Semester 5		
1.	Issues in Marketing (Marketing Seminar)	MCM60104	4
2.	Media Law And Ethics	LAW64004	4
3.	Professional Media Workshop	COM61404	4
4.	Public Relations Consultancy	PRL60105	5
5.	Relationship Marketing	MCM60204	4
		Total Credits	21

Module Synopsis - Bachelor of Mass Communication (Public Relations and Marketing)

Module	Code	Synopsis
Brand Management	ADV60604	This course outlines the theory and practice of brand management. It delves into the theories, concepts, issues, and principles, processes of Branding by considering it from the perspective of Marketing, Management, and Communication. It provides a viewpoint of the organization taking into consideration its competitive environment and the forces that affects its banding exercise. Students will have the opportunity to develop their portfolio in this Module through the development of branding through strategic processes.
Communication Research Fundamentals	RES60304	This course outlines the basic approach to research in the field of communication and mass media. It will provide students with a fundamental understanding of the various types of research approaches, namely quantitative and qualitative, and their respective methodologies that are appropriate to communication research. An introduction to a variety of descriptive and inferential statistical techniques that are normally used in communication research will also be provided. Students will also be thought how to read and review research journals as well as produce a research report.
Communication Theory	COM60404	This course outlines the concepts, roles, goals and changes in mass communication theories. It introduces the connections between communication theories and research. It also introduces the basic theories of mass media effects and media issues.
Consumer Behavior	MKT60204	To understand consumer behavior, it is important to understand concepts and theories borrowed from fields such as psychology, sociology, economics, etc. In addition during this course students will explore, many social, cultural and marketing factors that influence the selection, purchase and usage of products and services.
Crisis Management	PRL60404	This course outlines the key responsibilities of public relations in the contemporary world by understanding the importance of managing crisis locally and internationally. The course will introduce the students to different types of crisis and offers a wide range of frameworks and methods to managing crisis.

Module	Code	Synopsis
Critical and Creative Thinking	COM60304	This course outlines a comprehensive introduction to the cognitive process and helps students develop their higher-order thinking abilities needed for academic study and career success as critical and creative thinking skills are the cornerstones of higher education. It integrates various perspectives on the thinking process by fostering sophisticated intellectual and language abilities. It also shows that learning to think is a synthesizing process, knitting critical thinking and creative thinking abilities together with academic content and the fabric of students' experiences.
E-Marketing	BUS60104	This course will focus on the marketing management framework and will address the unique features of digital marketing. In summary, the course will look at how the 7 P's apply to the 'e' by providing an understanding of the principles and practices of E-Marketing to market goods and services. It describes the internet and the various business models employed in online marketing, and explore methods for conducting online market research and developing competitive intelligence for an organization. In addition, the course details processes for planning and implementing comprehensive e-marketing strategies using alternative online pricing strategies, Web-based advertising and promotion, and internet distribution channels. The course also considers other critical issues such as customer acquisition and retention, customer relationship management (CRM), and the challenges faced by firms in the application of E-Marketing strategies in global markets.
Innovative Media	COM60904	This course is an introductory of new media studies and skill-based digital media course which enable students to explore, develop and apply in the areas of Mass Communication. It also ventures into creativity of digital media application by creating and manipulating various multimedia elements.
Interactive Media	COM61104	This course outlines the types of authoring platforms, interactive design principles, interactive scripting in authoring in the current industry practices. It also focuses on practical application of the current industry used application for both CD-ROM and online interactive applications.

Module	Code	Synopsis
Intercultural Communication	COM60604	This course outlines the personal and theoretical understanding of the cultural origin of people's values, ideologies, habits and how they affect communication across cultural, racial and ethnic lines. It also seeks to develop awareness and increased understanding among peoples of different cultures, an appreciation of this rich diversity, and to offer tools for a lifeline of continued growth in intercultural competence.
Introduction to Management	MGT60104	This module is designed to provide the candidate with the basic concepts and principles of management in organisations. It focuses on the context of managerial activity and covers the four major functions of management i.e. planning, organising, leading and controlling and places them in a historical, political and economic context.
Introduction to Mass Communication	COM60504	This course outlines a basic understanding of the various types and roles of different traditional and new media industries as well as the related institutions of journalism, advertising and public relations and their respective structure, support and influence. Particular attention will be paid to mass communication issues relating to the rise of digital media such as trends, convergence, globalization and challenges. Mass media and communication in the Malaysian context will also be explored.
Issues in Marketing (Marketing Seminar)	MCM60104	This course is designed to provide students with the essential knowledge and skills they need to excel in handling relevant marketing-related workplace issues and problems. It trains students to be critical, creative and professional when planning, managing and executing a marketing campaign taking into account their immediate microenvironment such as issues with suppliers, customers, internal organization, publics, intermediaries, and competitors; and the macroenvironment such as public, political and economic policies, technological advancements, gender, social trends and social media, diverse and global consumer markets, green and sustainable marketing.
Media Law and Ethics	LAW64004	This course introduces the Malaysian legal system and judicial process. It discusses the laws and legal issues pertaining to the media, as well as ethical issues

Module	Code	Synopsis
		confronting professional communicators. It also discusses the important cases in media laws and ethics.
Media Writing	COM60704	This course prepares students to be able to write for the various media, each of which requires distinct styles and approaches. It takes the student through a survey of the different styles, understanding the nuances, and appreciating the underpinning theories that influence the crafting of written communication. Ample practice is given to developing the writing skills for efficient and effective writing for the media.
Principles of Marketing	MKT60104	This course introduces students to the key marketing concepts and strategies employed by marketers in facing the challenges in a dynamic business environment. It develops an understanding of the overall process of planning, implementation and control in the contemporary business environment. This course provides students with the needed conceptual skills to identify analyse and solve marketing problems. This course also provides a foundation for those who intend to further study in the marketing field or other business related courses.
Professional Media Workshop	COM61404	This course will enable students to understand and visualize all the theories and concepts learned into application in the industry. It will also expose students to first hand of the latest happening and news of the industry and market place. They will also be informed of the expectation of fresh graduates like themselves upon graduation. The workshops will covers important areas in advertising, public relations, broadcasting, leadership as well as project management. It will be conducted by experts from communication field.
Promotional Management	PRL60104	This course outlines to students the importance of promotional management. It introduces students to the various concepts, methods, and effects of different promotional techniques in an organisation.
Promotional Writing	PRL60204	This course introduces the concept of designing and writing promotional materials for a wide spectrum of communication media. It covers the scope and structure of the different forms of writing used in public relations, advertising and marketing.

Module	Code	Synopsis
Public Relations Consultancy	PRL60105	This course is designed to provide students with the essential knowldege and skills they need to excel in a professional working environment. It trains students to be critical, creative and professional when planning, managing and executing a public relations campaign.
Public Relations Principles	PRL60104	This course outlines the history and development of public relations, with an emphasis on providing the student with an awareness of various publics that an organisation interacts with. It also provides a grounding for students to understand the need for a strategic perspective instead of the mindset of a public relations technician. Students would be expected to keep up with current affairs.
Publicity and Media Relations	PRL60304	This course outlines the role of a public relations practitioner as a publicist in an organization. It also introduces to the various techniques of media relations, testing and evaluating publicity, and understanding the various types of publicity collaterals for the press.
Relationship Marketing	MCM60204	This course acquaints students with the various approaches and applications of relationship marketing, building and developing customer value and customer retention. This course also focuses on the strategic side of customer relationship management where consideration is taken into the analysis of the change in the marketing rationale from a crude concern for increased market share to a strategy aimed at creating long-term profitable relationships with targeted customers. The course provides students with an understanding of customer relationship management and its application in providing competitive advantage in the fields of marketing, public relations and sales.
Visual Communication	COM61004	This course outlines the basic understanding of visual literacy and communication within the current media industries through the comprehension of design elements and principles. It also focuses on the practical application and ethical considerations of the visual aspect in screen and print based visual communication design.

Programme Structure - Bachelor Of Mass Communication (Public Relations And Event Management)

No.	Module Title	Code	Credit Hours
Year 1			
Semester 1			
1.	Communication Theory	COM60404	4
2.	Critical And Creative Thinking	COM60304	4
3.	Introduction to Mass Communication	COM60504	4
4.	Visual Communication	COM61004	4
		Total Credits	16
Semester 2			
1.	Communication Research Fundamentals	RES60304	4
2.	Innovative Media	COM60904	4
3.	Intercultural Communication	COM60604	4
4.	Media Writing	COM60704	4
		Total Credits	16
Year 2			
Semester 3			
1.	Exhibition Management	EVT60104	4
2.	Introduction To Events and Meetings	EVT60103	3
3.	Promotional Writing	PRL60204	4
4.	Public Relations Principles	PRL60104	4
5.	Publicity And Media Relations	PRL60304	4
		Total Credits	19
Semester 4			
1.	Crisis Management	PRL60404	4
2.	Design For Events	EVT60203	3
3.	Entertainment Management	EVT60303	3
4.	Events Operation	EVT60403	3
5.	Interactive Media	COM61104	4
6.	Special Events And Festivals	EVT60603	3
		Total Credits	20
Year 3			
Semester 5			
1.	Event Risk Management And Safety	EVM60204	4
2.	Financial Public Relations	PRL60504	4
3.	Media Law And Ethics	LAW64004	4
4.	Professional Media Workshop	COM61404	4
5.	Public Relations Events Consultancy	PRL60205	5
		Total Credits	21

Module Synopsis - Bachelor of Mass Communication (Public Relations and Event Management)

Module	Code	Synopsis
Communication Research Fundamentals	RES60304	This course outlines the basic approach to research in the field of communication and mass media. It will provide students with a fundamental understanding of the various types of research approaches, namely quantitative and qualitative, and their respective methodologies that are appropriate to communication research. An introduction to a variety of descriptive and inferential statistical techniques that are normally used in communication research will also be provided. Students will also be thought how to read and review research journals as well as produce a research report.
Communication Theory	COM60404	This course outlines the concepts, roles, goals and changes in mass communication theories. It introduces the connections between communication theories and research. It also introduces the basic theories of mass media effects and media issues.
Crisis Management	PRL60404	This course outlines the key responsibilities of public relations in the contemporary world by understanding the importance of managing crisis locally and internationally. The course will introduce the students to different types of crisis and offers a wide range of frameworks and methods to managing crisis.
Critical and Creative Thinking	COM60304	This course outlines a comprehensive introduction to the cognitive process and helps students develop their higher-order thinking abilities needed for academic study and career success as critical and creative thinking skills are the cornerstones of higher education. It integrates various perspectives on the thinking process by fostering sophisticated intellectual and language abilities. It also shows that learning to think is a synthesizing process, knitting critical thinking and creative thinking abilities together with academic content and the fabric of students' experiences.
Design for Events	EVT60203	This course aims to develop students in their creative thinking and train them to use principles of designs in their event design creations.

Module	Code	Synopsis
Entertainment Management	EVT60303	This course is designed to give an understanding into the entertainment industry in relation to events management. Students are provided with a technical knowledge and the knowhow of programme arrangement.
Event Risk Management and Safety	EVM60204	An event usually comes with risk – from rowdy guests at a festival to a life-threatening issue at a sport event. Event Risk Management and Safety provides a comprehensive resource for managing event risk and controlling the damage due to problem. The course will cover theoritical perspectives as well as practical application. Topics covers in this course include measuring risk, crowd control, fire safety and emergency medical services.
Events Operation	EVT60403	This course encompasses a comprehensive conceptual and technical essential to create and execute an event successfully.
Exhibition Management	EVT60104	This course prepares students towards professional analysis in exhibition management from a local and international perspective. Students are able to create suitable designs in line with the clients requirement and needs.
Financial Public Relations	PRL60504	This course outlines the basics of financial communication, with a focus on investor relations. It introduces the basic principles of how to interpret company reports, financial statements, and also what to communicate to key publics. Students are expected to keep up to date with current affairs, especially business news.
Innovative Media	COM60904	This course is an introductory of new media studies and skill-based digital media course which enable students to explore, develop and apply in the areas of Mass Communication. It also ventures into creativity of digital media application by creating and manipulating various multimedia elements.

Module	Code	Synopsis
Interactive Media	COM61104	This course outlines the types of authoring platforms, interactive design principles, interactive scripting in authoring in the current industry practices. It also focuses on practical application of the current industry used application for both CD-ROM and online interactive applications.
Intercultural Communication	COM60604	This course outlines the personal and theoretical understanding of the cultural origin of people's values, ideologies, habits and how they affect communication across cultural, racial and ethnic lines. It also seeks to develop awareness and increased understanding among peoples of different cultures, an appreciation of this rich diversity, and to offer tools for a lifeline of continued growth in intercultural competence.
Introduction to Events and Meetings	EVT60103	This course provides an introduction to the concepts, methods and practices in the event and meeting industry. It includes a review of the components involved in an event regardless of its size, duration and type. This course prepares students towards professional understanding of meetings in local and international perspective. Students are able to describe accurately the components found in various event or meeting environments.
Introduction to Mass Communication	COM60504	This course outlines a basic understanding of the various types and roles of different traditional and new media industries as well as the related institutions of journalism, advertising and public relations and their respective structure, support and influence. Particular attention will be paid to mass communication issues relating to the rise of digital media such as trends, convergence, globalization and challenges. Mass media and communication in the Malaysian context will also be explored.
Media Law and Ethics	LAW64004	This course introduces the Malaysian legal system and judicial process. It discusses the laws and legal issues pertaining to the media, as well as ethical issues confronting professional communicators. It also discusses the important cases in media laws and ethics.

Module	Code	Synopsis
Media Writing	COM60704	This course outlines the basic understanding of visual literacy and communication within the current media industries through the comprehension of design elements and principles. It also focuses on the practical application and ethical considerations of the visual aspect in screen and print based visual communication design.
PR Events Consultancy	PRL60205	This course is designed to provide students with the essential knowledge and skills they need to excel in a professional working environment. It trains students to be critical, creative and professional when planning, managing and executing an event as a PR campaign.
Professional Media Workshop	COM61404	This course will enable students to understand and visualize all the theories and concepts learned into application in the industry. It will also expose students to first hand of the latest happening and news of the industry and market place. They will also be informed of the expectation of fresh graduates like themselves upon graduation. The workshops will covers important areas in advertising, public relations, broadcasting, leadership as well as project management. It will be conducted by experts from communication field.
Promotional Writing	PRL60204	This course introduces the concept of designing and writing promotional materials for a wide spectrum of communication media. It covers the scope and structure of the different forms of writing used in public relations, advertising and marketing.
Public Relations Principles	PRL60104	This course outlines the history and development of public relations, with an emphasis on providing the student with an awareness of various publics that an organisation interacts with. It also provides grounding for students to understand the need for a strategic perspective instead of the mindset of a public relations technician. Students would be expected to keep up with current affairs.
Publicity and Media Relations	PRL60304	This course outlines the role of a public relations practitioner as a publicist in an organization. It also introduces to the various techniques of media relations, testing and evaluating publicity, and understanding the various types of publicity collaterals for the press.

Module	Code	Synopsis
Special Events and Festivals	EVT60603	This course will provide students with various integrated strategies of marketing and operation needed to successfully run public events ranging from small to large scale, branding a venue such as hallmark festivals.
Visual Communication	COM61004	This course outlines the basic understanding of visual literacy and communication within the current media industries through the comprehension of design elements and principles. It also focuses on the practical application and ethical considerations of the visual aspect in screen and print based visual communication design.

SCHOOL OF COMPUTING & IT

Programme Structure – Bachelor Of Computer Science (Hons) (Computer Security And Forensics)

No.	Module Title	Code	Prerequisite	Status	Credit Hours
	Year 1				
	Semester 1				
1.	C Programming	ITS60304	None	Common Core	4
2.	Computer Systems	ITS60404	None	Common Core	4
3.	Mathematics for Computing 1	MTH60104	None	Common Core	4
4.	Systems Analysis and Design	ITS60103	None	Common Core	3
				Total Credits	15
	Semester 2				
1.	Communication Practice for IT Professionals	COM60303	None	Common Core	3
2.	Elective 1			Elective	3
				Total Credits	6
	Semester 3				
1.	Computer Crime and Digital Evidence	ITS60904	None	Discipline Core	4
2.	Data Structures and Algorithms	ITS60504	ITS60304	Common Core	4
3.	Fundamentals of Software Engineering	ITS60704	None	Compulsory Core	4
4.	Introduction to Object-Oriented Programming	ITS60804	None	Common Core	4
				Total Credits	16
	Year 2				
	Semester 4				
1.	Computer and Network Security	ITS60803	None	Discipline Core	3
2.	Fundamentals of Data Communications	ITS60203	ITS60404	Common Core	3
3.	Fundamentals of Database Systems	ITS60604	None	Common Core	4
4.	Object-Oriented Programming using Java	ITS61004	ITS60804	Discipline Core	4
5.	Software Design	ITS60603	ITS60704	Common Core	3
				Total Credits	17

No.	Module Title	Code	Prerequisite	Status	Credit Hours
	Semester 5				
1.	Computer Security and Forensics Tools	ITS61204	None	Discipline Core	4
2.	Computing Theory	ITS60403	MTH60104	Common Core	3
3.	Distributed Application Development	ITS61604	ITS60804	Discipline Core	4
4.	Operating Systems	ITS60503	None	Common Core	3
5.	User Interface Programming and Graphics	ITS60303	ITS60804	Common Core	3
				Total Credits	17
	Year 3				
	Semester 6				
1.	Computer Intrusion Detection	ITS61103	None	Discipline Core	3
2.	Cryptography	ITS61203	MTH60104	Discipline Core	3
3.	Elective 2			Elective	3
4.	Professional Computing Practice	CSC60303	None	Discipline Core	3
5.	Security Management in Practice	ITS61303	ITS60803	Discipline Core	3
				Total Credits	15
	Semester 8				
1.	Artificial Intelligence	ITS61403	ITS60504	Discipline Core	3
2.	Elective 3			Elective	4
3.	Elective 4			Elective	4
4.	Final Year Project (Semester II)	PRJ60207	-	Discipline Core	4
5.	Forensic Computing Practice	ITS61503	ITS61303	Discipline Core	3
				Total Credits	18

Elective Modules

No.	Code	Module Title	Prerequisite	Status	Credit Hours
1.	ITS62004	Advanced Database Systems	ITS60604	Elective	4
2.	ITS61603	Advanced Systems Administration	ITS60503	Elective	3
3.	ITS61504	Data Mining	ITS61004	Elective	4
4.	ITS61703	Enterprise Computing*	None	Elective	3
5.	CSC60103	Online Presence Management**	None	Elective	3
6.	ITS61804	OOP using C++	ITS60804	Elective	4
7.	CSC60403	Technopreneurship	None	Elective	3
8.	ITS61304	UNIX Programming	ITS60503	Elective	4
9.	ITS61404	Web Applications using .NET Technologies	ITS60804	Elective	4
10.	ITS61104	Web Systems and Technologies	None	Elective	4
11.	ITS61704	Windows Applications using .Net Technologies	ITS60804	Elective	4

*Introduction to SAP ERP professional training embedded
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Module Synopsis - Bachelor Of Computer Science (Hons) (Computer Security And Forensics)

Module	Code	Synopsis
Advanced Database Systems	ITS62004	The subject aims to broaden knowledge of the implementation of database systems and to introduce emerging database technologies, including information retrieval, and spatial databases. File structures and indexing are discussed, and analytical details presented, that enable students to understand efficiency in query evaluation. The idea of the transaction is introduced along with the necessity of concurrency control and serialisability. Issues of backup and recovery for databases are discussed.
Advanced Systems Administration	ITS61603	This course introduces students to the key marketing concepts and strategies employed by marketers in facing the challenges in a dynamic business environment. It develops an understanding of the overall process of planning, implementation and control in the contemporary business environment. This course provides students with the needed conceptual skills to identify, analyse and solve marketing problems. This course also provides a foundation for those who intend to further study in the marketing field or other business related courses.
Artificial Intelligence	ITS61403	This course is designed to introduce to the students the techniques and algorithms used in Artificial Intelligence.
C Programming	ITS60304	This course introduces the basics of structured programming, functions, arrays, pointers, data structures and dynamic memory allocation. Topics covered include Introduction to Program Development Environment, Control Structures, Functions, Arrays, Pointers , File Processing, Data Structures and Dynamic Memory Management.
Communication Practice for IT Professionals	COM60303	This practice-based course is designed to provide students with knowledge and a practical understanding of the concepts and theories of information and communication. The course aims to equip students working with information systems with information literacy and communication skills essential for their academic work and for their future professional roles in the IT industry. Lectures will provide the theoretical basis and instruction while tutorials, practical sessions and group project work will provide training in written and oral communication as well as a realistic experience of working in teams. The knowledge and training gained in this course will help develop key skills necessary for life-long learning.

Module	Code	Synopsis
Computer and Network Security	ITS60803	The subject reviews the following areas: computer crime, scale of problem, financial costs, and case studies. This subject focuses on security, trust, policy including security life cycle; layering & distribution of security mechanisms. Students also investigate threats to networks in detail (interception; interruption; modification; fabrication; types of attack; eavesdropping; masquerading; message tampering; replaying; denial of service), protection mechanisms focusing on encryption, authentication protocols, digital signatures for message integrity, the various secure Internet Protocols, security and mobility issues and security application programming interfaces (Java Secure socket extension (JSSE); Java Cryptography Architecture (JCA & JCAE)). Additional material will be covered through the practical group coursework. The aim here is to apply the technical knowledge and put into practice the skills developed earlier in the programme.
Computer Crime and Digital Evidence	ITS60904	The subject looks into legal matters, and categories of computer crime: offences against confidentiality and integrity; computer-related offences (e.g. fraud, forgery, copyright etc.); content-related offences (e.g. child pornography). Students will explore the laws pertaining to computer crime: Malaysian Cyberlaws, the UK Computer Misuse Act 1990; the EU CyberCrime Convention 2003; and applicable international law may also be presented. Students will learn to apply law relating to evidence in Malaysia specifically, and selected countries of the world generally; and the challenges in applying existing legislation to forensic computing. Students will understand the responsibilities of a Forensic Computing practitioner: securing evidence; ensuring continuity of evidence; use of auditable procedures when investigating evidence; admissibility of evidence; the need for impartiality; regulation and licensing. This subject also explores computer crime investigation and incident response, and forms of digital evidence: emails, documents, images, residual information. This subject also introduces students to the investigative strategies for digital evidence and computer crime scenes.

Module	Code	Synopsis
Computer Intrusion Detection	ITS61103	The subject looks into computer intrusion detection areas such as: identifying and exposing security weaknesses in an organization and selecting the proper countermeasures, understand how hacking tools can be sued to test and improve security, protect against and prevent intrusions. This module in a nutshell aims to provide a graduate with knowledge of how illegal computer attacks can be performed and how they can be detected and stopped.
Computer Security and Forensics Tools	ITS61204	This subject aims to extend and expand the knowledge gained in Computer Crime and Digital Evidence Part to cover a wide range of computer security and forensic computing tools and techniques. Major areas covered are Advanced EnCase and basic EnScripting, Encryption, e-Discovery, ethical hacking, incident response, digital evidence acquisition methods and procedures, Windows and Linux OS artifacts, and intrusion detection systems. Though the module will be regularly updated to cover new tools and techniques an indicative list of content follows: review of Boot Process, Partitions and File Systems; FAT internals; NTFS internals; EnCase: concepts and internals; Review of data formats; Searching (including GREP), bookmarking; Indexing and searching; Virus checkers; Network-based tools; Network packet sniffers; Intrusion detections systems, activity monitor, linklogger, tcpdump, netsniffer, syslog, spybuddy, Snort, Honeypots et cetera.
Computer Systems	ITS60404	This course introduces the fundamentals of computer systems. Topics covered include data representation, data conversion, logic circuits and digital arithmetic.
Computing Theory	ITS60403	This subject aims to introduce students to foundational issues in computer science. This includes the study of measuring how long computations may take, probabilistic approaches to difficult problems, the principles of cryptography, the use of grammars to specify syntax rules, formal models of computation, and computability properties. The emphasis is on understanding and application of techniques, rather than formal mathematical proofs.
Cryptography	ITS61203	This course covers the following areas: the mathematical background behind cryptography, historical ciphers, security politics in modern key ciphers, popular ciphers used today, cryptographic hash functions and cryptographic Hash Functions and digital signatures (SHA1, MD5) Key Management Implementation and performance within computing systems

Module	Code	Synopsis
		and error correcting codes principles. This subject also introduces coding, information theory and the systems in which codes are used. The emphasis is on the underlying concepts governing information theory and the mathematical basis for modern coding systems, but practical details of important codes like Reed-Solomon, BCH, and Turbo codes will be analysed. Data Compression Review of basic compression techniques, implementation of compression techniques within Multimedia (audio, video) and communication systems and the understanding of application requirements in terms of bandwidth, latency, cost, data loss and tolerance of errors are also explored.
Data Mining	ITS61504	This course is designed to introduce to the students the algorithms and data structures used in information retrieval including the inverted index, natural language processing, query processing, Measuring quality of search engine and documents classification.
Data Structures and Algorithms	ITS60504	This course introduces students to algorithm analysis and discusses the working of various data structures in details. Topics covered include Principles of Algorithms Analysis, Linked Lists, Stacks and Queues, Trees and Recursion, Hashing, Sorting Methods, Binary Search Trees and Graph Theory.
Distributed Application Development	ITS61604	This course introduces the concepts of distributed application development. Topics covered include client-server model and programming in socket level and using Remote Method Invocation (RMI). Laboratory instruction will include program development and walk-through.
Enterprise Computing	ITS61703	The purpose of this course is to provide students with a comprehensive understanding of enterprise resource planning (ERP) concepts, business processes, software configuration and system implementation. This is very much a hands-on course (with heavy lab sessions) and requires the active participation of enrolled students. .
Final Year Project (Semester II)	PRJ60207	This module is a two semester project comprising of Part1 (3credits) and Part2 (4 credits). Part1 culminates with Systems Analysis and Design while, Part2 culminates with the Software System relevant to the programme.–. Hence the learning outcomes listed of this module can only be met at the end of semester 2. Employers want to see that graduates who are

Module	Code	Synopsis
		capable of taking on a significant project and carrying it through to a successful completion. This module provides the opportunity to show that one can develop an idea for a piece of software, through the stages of research, analysis and design into an implemented product. Working over a period of two semesters, you will have an individual supervisor who will provide assistance and guidance. You will typically produce a significant piece of software and substantial written report and attend a viva to demonstrate and articulate your findings and progress.
Forensic Computing Practice	ITS61503	This subject allows students to look in-depth into an individual computer crime scenario simulating a source of evidence of one or more computer-related crimes. They are to investigate the contents of the scenario using appropriate tools. Throughout the duration of the module advice can be sought from the subject tutor with whom the suitability of different approaches and the significance of particular pieces of evidence can be discussed. As a result of their investigation students are to write a report detailing their findings for submission as evidence. Finally, they will give evidence as an expert witness in a mock courtroom and be cross examined by their peers or by staff.
Fundamentals of Data Communications	ITS60203	This subject will provide a broad introduction to the fundamentals of data communications and network technology. Emphasis is on higher aspects of data communications from perspective of the computer scientist and information technologist in the communication of data, and the interaction of remote systems.
Fundamentals of Database Systems	ITS60604	This course is an introduction to the principles, use, and applications of database systems. Students who complete the course will be able to design and create databases, be able to extract information from databases, understand in broad terms how database systems work, and understand the purposes for which databases are used.
Fundamentals of Software Engineering	ITS60704	This course is about understanding what we need to know before software is built, how to obtain that information, how to analyse and understand and subsequently design it. It also looks at the process and management you should incorporate to discover and create this information.

Module	Code	Synopsis
Introduction to Object-Oriented Programming	ITS60804	This course introduces the fundamentals of Object-Oriented Programming using Java. Topics covered include Object-Oriented programming concepts, classes, inheritance, polymorphism, abstract classes, interfaces, and exception handling.
Mathematics for Computing 1	MTH60104	This module will introduce the students to the discrete mathematical skills required in the field of computing and information technology.
Object-Oriented Programming using Java	ITS61004	This course introduces the fundamentals of Object-Oriented Programming using Java. Topics covered include Object-Oriented programming concepts, classes, inheritance, polymorphism, abstract classes, interfaces, and exception handling.
Online Presence Management	CSC60103	The module provides students with the state of the art training in using cloud computing technologies and applications. Provides hands-on project opportunities for students to build online applications that can enhance business productivity, create online presence, understanding and engaging customers with social media and analyzing online presence using different web tool technologies.
OOP using C++	ITS61804	This course strengthens students' understanding of object-oriented programming concept and introduces them to OO concepts supported in C++. Topics covered include inheritance, polymorphism, and generic programming, Standard Template Library, and design patterns.
Operating Systems	ITS60503	This subject aims to introduce fundamental principles, strategies and algorithms used in operating systems.

Module	Code	Synopsis
Professional Computing Practice	CSC60303	This subject is an introduction to professional computing practices. It is intended for computer science and IT students who have not studied business principles, or who have little work experience in the industry. The subject provides a survival kit for computer science and IT graduates entering the work force. The subject considers computer ethical issues, such as information privacy, computer crime, computer misuse. The subject considers the international legal framework available to protect software system development. This includes non-disclosure agreements, employment contracts, intellectual property law (copyright, patent, licensing, and royalties), trademarks and warranty disclaimers. The subject also considers the how ethics and law affect software system development.
Security Management in Practice	ITS61303	This subject takes a deeper look into software security in the real world: analysing systems and security aware applications from various domains such as mobile communications, electronic commerce, banking and finance. This subject also looks into the application of trusted computing and trust in electronic commerce and the existence of a trusted computing base. Policies for managing security, policy languages and models are also looked into. This subject also looks at trust and reputation and the basis for authorization decisions; the notion of trust and how to express it (subjective logic, trust and uncertainty, rating systems and reputations servers); the eBay reputation server as an example; and communities of trust. In security analysis; assumptions are made; on social basis and threat assumptions. The trade-off between threats and countermeasures and the return on security investment (RoSI) is also investigated. Information Security Management Standards and Codes of Practice, and legislation are also covered. The interrelation and interdependency of security management and other system management activities and considerations such as:- Business Continuity Management, Organizational Security, Asset Classification and Control, Personnel Security, Physical and Environmental Security, Communications and Operations Management, Systems Development and Maintenance, and Business Continuity Management and Compliance are a major part of the subject.
Software Design	ITS60603	The subject advances the student's knowledge and understanding of the fundamentals of software engineering; focusing on the software design phase/stage. Students learn and gain practical skills in software design architectures like the

Module	Code	Synopsis
		role of decomposition, components / subsystems, interfaces, separation of concerns, layers, architectural styles and patterns. Students also are taught advanced software design principle of design patterns; patterns definition, history of patterns, pattern languages, pattern communities, designing patterns both from general usage (i.e. model view controller, iterator and wrapper). Students in the end are expected to implement their knowledge using CASE tools and Java programming.
Systems Analysis and Design	ITS60103	The course provides basic understanding and practical skills of system analysis and design. It will help students to work in information systems related field in the future.
Technopreneurship	CSC60403	This course introduces students to the technopreneurship IT Professionals, its process, the kind of mind-set is required, starting a new business with a proper plan, financing the venture and finally managing & growing the venture.
UNIX Programming	ITS61304	This subject is designed to introduce the Unix System Administration, Shell scripting and networking technology in Unix system.
User Interface Programming and Graphics	ITS60303	This subject will provide a broad introduction to the fundamentals of data communications and network technology. Emphasis is on higher aspects of data communications from perspective of the computer scientist and information technologist in the communication of data, and the interaction of remote systems.
Web Applications using .NET Technologies	ITS61404	This course introduces the ASP.NET, ADO.NET, security and web services. Topics covered include the .NET framework in relation to Web applications, ASP.NET server controls, ADO.NET, SQL Server, .NET security, and web services.
Windows Applications using .Net Technologies	ITS61704	This subject is designed to provide the candidate with an introduction to psychological and behavioural approaches to the study of work and organisations. The course introduces some of the basic analytical tools and concepts from the fields of organisational behaviour and work psychology that encourage an understanding of the behaviour of individuals and groups in the workplace.

Programme Structure - Bachelor Of Software Engineering (Hons)

No.	Module Title	Code	Prerequisite	Status	Credit Hours
Year 1					
Semester 1					
1.	C Programming	ITS60304	None	Common Core	4
2.	Computer Systems	ITS60404	None	Common Core	4
3.	Mathematics for Computing 1	MTH60104	None	Common Core	4
4.	Systems Analysis and Design	ITS60103	None	Common Core	3
				Total Credits	15
Semester 2					
1.	Communication Practice for IT Professionals	COM60303	None	Common Core	3
2.	Elective 1			Elective	3
				Total Credits	6
Semester 3					
1.	Data Structures and Algorithms	ITS60504	ITS60304	Common Core	4
2.	Fundamentals of Software Engineering	ITS60704	None	Common Core	4
3.	Introduction to Object-Oriented Programming	ITS60804	None	Common Core	4
4.	Mathematics for Computing 2	MTH60503	MTH60104	Common Core	3
				Total Credits	15

No.	Module Title	Code	Prerequisite	Status	Credit Hours
Year 2					
Semester 4					
1.	Fundamentals of Data Communications	ITS60203	None	Common Core	3
2.	Fundamentals of Database Systems	ITS60604	None	Common Core	4
3.	Object-Oriented Programming using Java	ITS61004	ITS60804	Discipline Core	4
4.	Software Design	ITS60603	ITS60704	Common Core	3
5.	Software Process	ITS60703	ITS60704	Discipline Core	3
				Total Credits	17
Semester 5					
1.	Distributed Application Development	ITS61604	ITS60804	Discipline Core	4
2.	Operating Systems	ITS60503	None	Common Core	3
3.	Project Management	CSC60703	ITS60704	Discipline Core	3
4.	Software Maintenance	ITS61003	ITS60603, ITS60703	Discipline Core	3
5.	Software Quality	ITS60903	ITS60703	Discipline Core	3
				Total Credits	16
Year 3					
Semester 6					
1.	Computing Theory	ITS60403	MTH60104	Common Core	3
2.	Elective 2			Elective	3
3.	Enterprise Computing*	ITS61703	None	Common Core	3
4.	Professional Computing Practice	CSC60303	None	Discipline Core	3
				Total Credits	12

No.	Module Title	Code	Prerequisite	Status	Credit Hours
	Semester 8				
1.	Artificial Intelligence	ITS61403	ITS60504	Discipline Core	3
2.	Data Mining	ITS61504	ITS61004	Discipline Core	4
3.	Elective 3			Elective	4
4.	Elective 4			Elective	4
5.	Software Engineering Project (Semester II)	PRJ60107	-	Discipline Core	4
				Total Credits	19

Elective Modules

No.	Code	Module Title	Prerequisite	Status	Credit Hours
1.	ITS62004	Advanced Database Systems	ITS60604	Elective	4
2.	CSC60104	E-Commerce	None	Elective	4
3.	CSC60204	Internet Fundamentals	None	Elective	4
4.	ACC60104	Introduction to Accounting	None	Elective	4
5.	MGT60104	Introduction to Management	None	Elective	4
6.	CSC60103	Online Presence Management**	None	Elective	3
7.	ITS61804	OO Programming using C++	ITS60804	Elective	4
8.	OBM60104	Organizational Behaviour	None	Elective	4
9.	MKT60104	Principles of Marketing	None	Elective	4
10.	CSC60403	Technopreneurship	None	Elective	3
11.	ITS61304	UNIX Programming	ITS60503	Elective	4
12.	ITS61404	Web Applications using .NET Technologies	ITS60804	Elective	4
13.	ITS61704	Windows Applications using .NET Technologies	ITS60804	Elective	4

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Module Synopsis - Bachelor of Software Engineering (Hons)

Module	Code	Synopsis
Advanced Database Systems	ITS62004	The subject aims to broaden knowledge of the implementation of database systems and to introduce emerging database technologies, including information retrieval, and spatial databases. File structures and indexing are discussed, and analytical details presented, that enable students to understand efficiency in query evaluation. The idea of the transaction is introduced along with the necessity of concurrency control and serialisability. Issues of backup and recovery for databases are discussed.
Artificial Intelligence	ITS61403	This course is designed to introduce to the students the techniques and algorithms used in Artificial Intelligence.
C Programming	ITS60304	This course introduces the basics of structured programming, functions, arrays, pointers, data structures and dynamic memory allocation. Topics covered include Introduction to Program Development Environment, Control Structures, Functions, Arrays, Pointers , File Processing, Data Structures and Dynamic Memory Management
Communication Practice for IT Professionals	COM60303	This practice-based course is designed to provide students with knowledge and a practical understanding of the concepts and theories of information and communication. The course aims to equip students working with information systems with information literacy and communication skills essential for their academic work and for their future professional roles in the IT industry. Lectures will provide the theoretical basis and instruction while tutorials, practical sessions and group project work will provide training in written and oral communication as well as a realistic experience of working in teams. The knowledge and training gained in this course will help develop key skills necessary for life-long learning.
Computer Systems	ITS60404	This course introduces the fundamentals of computer systems. Topics covered include data representation, data conversion, logic circuits and digital arithmetic.
Computing Theory	ITS60403	This subject aims to introduce students to foundational issues in computer science. This includes the study of measuring how long computations may take, probabilistic approaches to difficult problems, the principles of cryptography, the use of grammars to specify syntax rules, formal models of

Module	Code	Synopsis
		computation, and computability properties. The emphasis is on understanding and application of techniques, rather than formal mathematical proofs.
Data Mining	ITS61504	This course is designed to introduce the complexity of data mining, algorithms used in data mining and the various applications of data mining. Topics included are supervised and unsupervised learning techniques, text mining, classification techniques, neural networks and Naïve Bayes approach
Data Structures and Algorithms	ITS60504	This course introduces students to algorithm analysis and discusses the working of various data structures in details. Topics covered include Principles of Algorithms Analysis, Linked Lists, Stacks and Queues, Trees and Recursion, Hashing, Sorting Methods, Binary Search Trees and Graph Theory
Distributed Application Development	ITS61604	This course introduces the concepts of distributed application development. Topics covered include client-server model and programming in socket level and using Remote Method Invocation (RMI). Laboratory instruction will include program development and walk-through.
E-Commerce	CSC60104	This module provides a framework for understanding the issues and trends relating to electronic commerce. Its overall focus is on understanding how the technology can be used to support business applications. The starting point is therefore from the business perspective, to understand the business needs, and the social and legal aspects that affect electronic trading. A broad introduction to the technology then introduces how such systems can be constructed
Enterprise Computing	ITS61703	The purpose of this course is to provide students with a comprehensive understanding of enterprise resource planning (ERP) concepts, business processes, software configuration and system implementation. This is very much a hands-on course (with heavy lab sessions) and requires the active participation of enrolled students.
Fundamentals of Data Communications	ITS60203	This subject will provide a broad introduction to the fundamentals of data communications and network technology. Emphasis is on higher aspects of data communications from perspective of the computer scientist and information technologist in the communication of data, and the interaction of remote systems

Module	Code	Synopsis
Fundamentals of Database Systems	ITS60604	This course is an introduction to the principles, use, and applications of database systems. Students who complete the course will be able to design and create databases, be able to extract information from databases, understand in broad terms how database systems work, and understand the purposes for which databases are used
Fundamentals of Software Engineering	ITS60704	This course is about understanding what we need to know before software is built, how to obtain that information, how to analyse and understand and subsequently design it. It also looks at the process and management you should incorporate to discover and create this information.
Internet Fundamentals	CSC60204	The subject advances the student's knowledge and understanding of the role that internet and web applications have in modern working and personal environments. It provides theoretical and case-study perspectives on how internet technology may help students to communicate with the rest of the world. The student will be presented with the previous and current internet technologies and web applications, as well as the available of website development tools. The student will encounter practical experience in developing simple websites with both HTML and web authoring tools.
Introduction to Accounting	ACC60104	This module is an introduction to the technical aspects of financial accounting, as well as to the financial community. As a member of the financial community you will be expected to be update on current business and financial events. Now is a good time to start a regular habit of reading the accounting and financial press.
Introduction to Management	MGT60104	This module is designed to provide the candidate with the basic concepts and principles of management in organizations. It focuses on the context of managerial activity and covers the four major functions of management i.e. planning, organizing, leading and controlling.
Introduction to Object-Oriented Programming	ITS60804	This course strengthens students' understanding of object-oriented programming concept and introduces them to OO concepts supported in C++. Topics covered include inheritance, polymorphism, generic programming, Standard Template Library, and design patterns.

Module	Code	Synopsis
Mathematics for Computing 1	MTH60104	This module will introduce the students to the discrete mathematical skills required in the field of computing and information technology.
Mathematics for Computing 2	MTH60503	This module will introduce the students to the discrete mathematical skills and concepts of calculus required in the field of computing, especially in programming and computing theory.
Object-Oriented Programming using Java	ITS61004	This course introduces the fundamentals of Object-Oriented Programming using Java. Topics covered include Object-Oriented programming concepts, classes, inheritance, polymorphism, abstract classes, interfaces, and exception handling.
Online Presence Management	CSC60103	The module provides students with the state of the art training in using cloud computing technologies and applications. Provides hands-on project opportunities for students to build online applications that can enhance business productivity, create online presence, understanding and engaging customers with social media and analyzing online presence using different web tool technologies.
OO Programming using C++	ITS61804	This course strengthens students' understanding of object-oriented programming concept and introduces them to OO concepts supported in C++. Topics covered include inheritance, polymorphism, generic programming, Standard Template Library, and design patterns.
Operating Systems	ITS60503	This subject aims to introduce fundamental principles, strategies and algorithms used in operating systems.
Organizational Behaviour	OBM60104	This module is designed to provide the candidate with an introduction to psychological and behavioural approaches to the study of work and organisations. The module introduces some of the basic analytical tools and concepts from the fields of organisational behaviour and work psychology that encourage an understanding of the behaviour of individuals and groups in the workplace.
Principles of Marketing	MKT60104	This module introduces students to the key marketing concepts and strategies employed by marketers in facing the challenges in a dynamic business environment. It develops an understanding of the overall process of planning, implementation and control in the contemporary business

Module	Code	Synopsis
		environment. This module provides students with the needed conceptual skills to identify analyse and solve marketing problems. This module also provides a foundation for those who intend to further study in the marketing field or other business related courses.
Professional Computing Practice	CSC60303	This subject is an introduction to professional computing practices. It is intended for computer science and IT students who have not studied business principles, or who have little work experience in the industry. The subject provides a survival kit for computer science and IT graduates entering the work force. The subject considers computer ethical issues, such as information privacy, computer crime, computer misuse. The subject considers the international legal framework available to protect software system development. This includes non-disclosure agreements, employment contracts, intellectual property law (copyright, patent, licensing, royalties), trademarks and warranty disclaimers. The subject also considers the how ethics and law affect software system development
Project Management	CSC60703	This subject is designed to establish the concept that effective project management ensures that a project is completed on time, within budget, and with high quality. It provides theoretical and case-study perspectives on how project management may help students to manage their projects. Topics to be discussed include: Project Management Concepts, Overview of Project Planning, Software Effort Management, Risk Management, Resources Management, Project Monitoring and Control.
Software Design	ITS60603	The subject advances the student's knowledge and understanding of the fundamentals of software engineering; focusing on the software design phase/stage. Students learn and gain practical skills in software design architectures like the role of decomposition, components / subsystems, interfaces, separation of concerns, layers, architectural styles and patterns. Students also are taught advanced software design principle of design patterns; patterns definition, history of patterns, pattern languages, pattern communities, designing patterns both from general usage (i.e. model view controller, iterator and wrapper). Students in the end are expected to implement their knowledge using CASE tools and Java programming.

Module	Code	Synopsis
Software Engineering Project (Semester II)	PRJ60107	This module is a two semester project comprising of Part1 (3credits) and Part2 (4 credits). Part1 culminates with Systems Analysis and Design while, Part2 culminates with the Software System relevant to the programme.–. Hence the learning outcomes of this module can only be met at the end of semester 2. Employers want to see that graduates who are capable of taking on a significant project and carrying it through to a successful completion. This module provides the opportunity to show that one can develop an idea for a piece of software, through the stages of research, analysis and design into an implemented product. Working over a period of about two semesters, you will have an individual supervisor who will provide assistance and guidance. You will typically produce a significant piece of software, substantial written report and attend a viva to demonstrate and articulate you findings and progress.
Software Maintenance	ITS61003	This course is about understanding of software maintenance considerations which transcends the software life cycle processes. Since software maintenance is a ubiquitous concern in software engineering, this course prepares students to provide cost-effective support to software using proven techniques and established standards in software maintenance.
Software Process	ITS60703	This course aims to make students aware of the concept of a software process, the benefits associated with understanding the elements and structure of software processes, and ways to improve its effectiveness.
Software Quality	ITS60903	This course is about understanding of software quality considerations which transcends the software life cycle processes. Since software quality is a ubiquitous concern in software engineering, this course prepares students to manage the development of high quality software using proven techniques and established standards in software quality assurance.
Systems Analysis and Design	ITS60103	The course provides basic understanding and practical skills of system analysis and design. It will help students to work in information systems related field in the future.

Module	Code	Synopsis
Technopreneurship	CSC60403	This course introduces students to the technopreneurship IT Professionals, its process, the kind of mind-set is required, starting a new business with a proper plan, financing the venture and finally managing & growing the venture.
UNIX Programming	ITS61304	This subject is designed to introduce the Unix System Administration, Shell scripting and networking technology in Unix system.
Web Applications using .NET Technologies	ITS61404	This course introduces the ASP.NET, ADO.NET, security and web services. Topics covered include the .NET framework in relation to Web applications, ASP.NET server controls, ADO.NET, SQL Server, .NET security, and web services
Windows Applications using .NET Technologies	ITS61704	This course introduces the .NET Framework using C#. Topics covered include the .NET framework, C# constructs, classes, inheritance, polymorphism, interfaces, exception handling, collections, generics, delegates, indexers, specific C# features, and .NET assemblies.

Programme Structure - Bachelor Of Information Technology (Hons) (Internet Technologies)

No.	Module Title	Code	Prerequisite	Status	Credit Hours
	Year 1				
	Semester 1				
1.	Computer Systems	ITS60404	None	Common Core	4
2.	Elective 1			Elective	4
3.	Mathematics for Computing 1	MTH60104	None	Common Core	4
4.	Systems Analysis and Design	ITS60103	None	Common Core	3
				Total Credits	15
	Semester 2				
1.	Communication Practice for IT Professionals	COM60303	None	Common Core	3
2.	Fundamentals of Software Engineering	ITS60704	None	Common Core	4
3.	Internet Fundamentals	CSC60204	None	Discipline Core	4
4.	Web Systems and Technologies	ITS61104	None	Discipline Core	4
				Total Credits	15
	Year 2				
	Semester 3				
1.	E-Commerce	CSC60104	None	Common Core	4
2.	Fundamentals of Data Communications	ITS60203	None	Common Core	3
3.	Fundamentals of Database Systems	ITS60604	None	Common Core	4
4.	Introduction to Object-Oriented Programming	ITS60804	None	Common Core	4
				Total Credits	15

No.	Module Title	Code	Prerequisite	Status	Credit Hours
Semester 4					
1.	Elective 2			Elective	3
2.	Elective 3			Elective	3
3.	Object-Oriented Programming using Java	ITS61004	ITS60804	Discipline Core	4
4.	Operating Systems	ITS60503	None	Common Core	3
5.	Web Database Applications	ITS62304	ITS61104	Discipline Core	4
				Total Credits	17
Year 3					
Semester 5					
1.	Enterprise Computing*	ITS61703		Common Core	3
2.	Mobile Applications Development	ITS62204	ITS60804	Discipline Core	4
3.	Multimedia Systems	CSC60304	ITS62304	Common Core	4
4.	Professional Computing Practice	CSC60303	None	Discipline Core	3
5.	Technopreneurship	CSC60403	None	Common Core	3
				Total Credits	17
Semester 7					
1.	Elective 4			Elective	4
2.	Final Year Project (Semester II)	PRJ60207	-	Discipline Core	4
3.	Web Applications using .NET Technologies	ITS61404	ITS60804	Systems / Internet Elective	4
4.	Windows Applications using .NET Technologies	ITS61704	ITS60804	Discipline Core	4
5.	XML Technologies	ITS62504	ITS61104	Internet Elective	4
				Total Credits	20

Elective Modules

No	Code	Module Title	Prerequisite	Status	Credit Hours
1.	ITS60304	C Programming	None	Elective	4
2.	ITS60904	Computer Crime and Digital Evidence	None	Elective	4
3.	ITS60504	Data Structures and Algorithms	ITS60304	Elective	4
4.	ACC60104	Introduction to Accounting	None	Elective	4
5.	MGT60104	Introduction to Management	None	Elective	4
6.	ITS61804	Object-oriented Programming using C++	ITS60804	Elective	4
7.	CSC60103	Online Presence Management**	None	Elective	3
8.	OBM60104	Organisational Behaviour	None	Elective	4
9.	MKT60104	Principles of Marketing	None	Elective	4
10.	CSC60703	Project Management	ITS60704	Elective	3

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Module Synopsis - Bachelor Of Information Technology (Hons) (Internet Technologies)

Module	Code	Synopsis
C Programming	ITS60304	This module introduces the basics of structured programming, functions, arrays, pointers, data structures and dynamic memory allocation. Topics covered include Introduction to Program Development Environment, Control Structures, Functions, Arrays, Pointers, File Processing, Data Structures and Dynamic Memory Management.
Communication Practice for IT Professionals	COM60303	This practice-based module is designed to provide students with knowledge and a practical understanding of the concepts and theories of information and communication. The module aims to equip students working with information systems with information literacy and communication skills essential for their academic work and for their future professional roles in the IT industry. Lectures will provide the theoretical basis and instruction while tutorials, practical sessions and group project work will provide training in written and oral communication as well as a realistic experience of working in teams. The knowledge and training gained in this course will help develop key skills necessary for life-long learning.
Computer Crime and Digital Evidence	ITS60904	The module looks into legal matters, and categories of computer crime: offences against confidentiality and integrity; computer-related offences (e.g. fraud, forgery, copyright etc.); content-related offences (e.g. child pornography). Students will explore the laws pertaining to computer crime: Malaysian Cyberlaws, the UK Computer Misuse Act 1990; the EU CyberCrime Convention 2003; and applicable international law may also be presented. Students will learn to apply law relating to evidence in Malaysia specifically, and selected countries of the world generally; and the challenges in applying existing legislation to forensic computing. Students will understand the responsibilities of a Forensic Computing practitioner: securing evidence; ensuring continuity of evidence; use of auditable procedures when investigating evidence; admissibility of evidence; the need for impartiality; regulation and licensing. This module also explores computer crime investigation and incident response, and forms of digital evidence: emails, documents, images, residual information. This module also introduces students to the investigative strategies for digital evidence and computer crime scenes.

Computer Systems	ITS60404	This module introduces the fundamentals of computer systems. Topics covered include data representation, data conversion, logic circuits and digital arithmetic.
Data Structures and Algorithms	ITS60504	This course introduces students to algorithm analysis and discusses the working of various data structures in details. Topics covered include Principles of Algorithms Analysis, Linked Lists, Stacks and Queues, Trees and Recursion, Hashing, Sorting Methods, Binary Search Trees and Graph Theory.
E-Commerce	CSC60104	This module provides a framework for understanding the issues and trends relating to electronic commerce. Its overall focus is on understanding how the technology can be used to support business applications. The starting point is therefore from the business perspective, to understand the business needs, and the social and legal aspects that affect electronic trading. A broad introduction to the technology then introduces how such systems can be constructed
Enterprise Computing	ITS61703	The purpose of this module is to provide students with a comprehensive understanding of enterprise resource planning (ERP) concepts, business processes, software configuration and system implementation. This is very much a hands-on course (with heavy lab sessions) and requires the active participation of enrolled students. .
Final Year Project (Semester II)	PRJ60207	This module is a two semester project comprising of Part1 (3credits) and Part2 (4 credits). Part1 culminates with Systems Analysis and Design while, Part2 culminates with the Software System relevant to the programme.. Hence the learning outcomes listed above can only be met at the end of semester 2. Employers want to see that graduates who are capable of taking on a significant project and carrying it through to a successful completion. This module provides the opportunity to show that one can develop an idea for a piece of software, through the stages of research, analysis and design into an implemented product. Working over a period of two semesters, you will have an individual supervisor who will provide assistance and guidance. You will typically produce a significant piece of software, substantial written report and attend a viva to demonstrate and articulate you findings and progress.
Fundamentals of Data Communications	ITS60203	This module will provide a broad introduction to the fundamentals of data communications and network technology. Emphasis is on higher aspects of data communications from perspective of the computer scientist and information technologist in the communication of data, and the interaction

		of remote systems
Fundamentals of Database Systems	ITS60604	This module is an introduction to the principles, use, and applications of database systems. Students who complete the course will be able to design and create databases, be able to extract information from databases, understand in broad terms how database systems work, and understand the purposes for which databases are used
Fundamentals of Software Engineering	ITS60704	This module is about understanding what we need to know before software is built, how to obtain that information, how to analyse and understand and subsequently design it. It also looks at the process and management you should incorporate to discover and create this information
Internet Fundamentals	CSC60204	The subject advances the student's knowledge and understanding of the role that internet and web applications have in modern working and personal environments. It provides theoretical and case-study perspectives on how internet technology may help students to communicate with the rest of the world. The student will be presented with the previous and current internet technologies and web applications, as well as the available of website development tools. The student will encounter practical experience in developing simple websites with both HTML and web authoring tools.
Introduction to Accounting	ACC60104	This module is an introduction to the technical aspects of financial accounting, as well as to the financial community. As a member of the financial community you will be expected to be up date on current business and financial events. Now is a good time to start a regular habit of reading the accounting and financial press.
Introduction to Management	MGT60104	This module is designed to provide the candidate with the basic concepts and principles of management in organizations. It focuses on the context of managerial activity and covers the four major functions of management i.e. planning, organizing, leading and controlling.
Introduction to Object-Oriented Programming	ITS60804	This module introduces the fundamentals of Object-Oriented Programming using Java. Topics covered include Object-Oriented programming concepts, classes, inheritance, polymorphism, abstract classes, interfaces, and exception handling.

Mathematics for Computing 1	MTH60104	This module will introduce the students to the discrete mathematical skills required in the field of computing and information technology.
Mobile Applications Development	ITS62204	This course will introduce students to mobile computing and mobile application development. Mobile computing will be discussed from three perspectives: mobile technology, application development, and user interaction. The course first overview various mobile computing applications, mobile web applications and technologies. Next, students will be introduced to and use mobile application frameworks and development environments to reinforce concepts covered in lectures. User interface and user experience will be discussed and application development guidelines from various vendors will be discussed and analysed. Lastly, the course will look at the Global Positioning System and some current mobile web applications. Students will be expected to implement the mobile applications and mobile web application in their assignments
Multimedia Systems	CSC60304	This course will introduce students to multimedia system incorporate various media such as text, graphics, audio and video according to user-centred system design approach. Students are required to design, implement and evaluate a multimedia system based on the usability and user modelling
Object-oriented Programming using C++	ITS61804	This module strengthens students' understanding of object-oriented programming concept and introduces them to OO concepts supported in C++. Topics covered include inheritance, polymorphism, generic programming, Standard Template Library, and design patterns.
Object-Oriented Programming using Java	ITS61004	This module introduces the fundamentals of Object-Oriented Programming using Java. Topics covered include Object-Oriented programming concepts, classes, inheritance, polymorphism, abstract classes, interfaces, and exception handling.
Online Presence Management	CSC60103	The module provides students with the state of the art training in using cloud computing technologies and applications. Provides hands-on project opportunities for students to build online applications that can enhance business productivity, create online presence, understanding and engaging customers with social media and analyzing online presence using different web tool technologies.
Operating Systems	ITS60503	This module aims to introduce fundamental principles, strategies and algorithms used in operating systems.

Organisational Behaviour	OBM60104	This module is designed to provide the candidate with an introduction to psychological and behavioural approaches to the study of work and organisations. The module introduces some of the basic analytical tools and concepts from the fields of organisational behaviour and work psychology that encourage an understanding of the behaviour of individuals and groups in the workplace.
Principles of Marketing	MKT60104	This module introduces students to the key marketing concepts and strategies employed by marketers in facing the challenges in a dynamic business environment. It develops an understanding of the overall process of planning, implementation and control in the contemporary business environment. This module provides students with the needed conceptual skills to identify, analyse and solve marketing problems. This module also provides a foundation for those who intend to further study in the marketing field or other business related courses.
Professional Computing Practice	CSC60303	This module is an introduction to professional computing practices. It is intended for computer science and IT students who have not studied business principles, or who have little work experience in the industry. The module provides a survival kit for computer science and IT graduates entering the work force. The module considers computer ethical issues, such as information privacy, computer crime, computer misuse. The module considers the international legal framework available to protect software system development. This includes non-disclosure agreements, employment contracts, intellectual property law (copyright, patent, licensing, royalties), trademarks and warranty disclaimers. The module also considers the how ethics and law affect software system development.
Project Management	CSC60703	This module is designed to establish the concept that effective project management ensures that a project is completed on time, within budget, and with high quality. It provides theoretical and case-study perspectives on how project management may help students to manage their projects. Topics to be discussed include: Project Management Concepts, Overview of Project Planning, Software Effort Management, Risk Management, Resources Management, Project Monitoring and Control.
Systems Analysis and Design	ITS60103	The module provides basic understanding and practical skills of system analysis and design. It will help students to work in information systems related field in the future.

Technopreneurship	CSC60403	This course introduces students to the technopreneurship IT Professionals, its process, the kind of mind-set is required, starting a new business with a proper plan, financing the venture and finally managing & growing the venture.
Web Applications using .NET Technologies	ITS61404	This module introduces the ASP.NET, ADO.NET, security and web services. Topics covered include the .NET framework in relation to Web applications, ASP.NET server controls, ADO.NET, SQL Server, .NET security, and web services
Web Database Applications	ITS62304	This module introduces students to the principles and practice of implementing and designing medium-size web database applications. Topics include server side scripting, session management, authentication and authorization. 60% of the assessment is assignment work, emphasizing the practical nature of the subject.
Web Systems and Technologies	ITS61104	This module introduces the student to the basics of web technology concepts, the principles and tools that can be used to develop web applications. Topics would include internet protocols, HTML and XML files, client processing with Javascript and server side processing with PHP.
Windows Applications using .NET Technologies	ITS61704	This module introduces the .NET Framework using C#. Topics covered include the .NET framework, C# constructs, classes, inheritance, polymorphism, interfaces, exception handling, collections, generics, delegates, indexers, specific C# features, and .NET assemblies.
XML Technologies	ITS62504	Markup languages describe structure in documents and make intended meaning explicit. The eXtensible Markup Language (XML) is a markup language designed for use on the World Wide Web. XML skills are now essential in many computer science and information technology roles. This module is an introduction to the principles, use, and application of document markup languages, especially for use on the World Wide Web, focussing on XML. Topics include document markup languages (especially XML); document description languages (such as Document Type Definitions (DTDs) and XML Schemas); XML namespaces; document transformation and manipulation (using eXtensibleStylesheet Language Transformations (XSLT) and XML APIs, such as the Simple API for XML (SAX) and the Document Object Model (DOM)); document query languages (specifically XQuery); and XML databases.

Programme Structure - Bachelor Of Computer Science (Hons)

No.	Module Title	Code	Prerequisite	Status	Credit Hours
Year 1					
Semester 1					
1.	Computer Systems	ITS60404	None	Common Core	4
2.	Elective 1			Elective	4
3.	Mathematics for Computing 1	MTH60104	None	Common Core	4
4.	Systems Analysis and Design	ITS60103	None	Common Core	3
				Total Credits	15
Semester 2					
1.	Communication Practice for IT Professionals	COM60303	None	Common Core	3
2.	Elective 1			Elective	3
3.	Fundamentals of Software Engineering	ITS60704	None	Common Core	4
4.	Web Systems and Technologies	ITS61104	None	Discipline Core	4
				Total Credits	14
Year 2					
Semester 3					
1.	Data Structures and Algorithms	ITS60504	ITS60304	Common Core	4
2.	Fundamentals of Data Communications	ITS60203	None	Common Core	3
3.	Fundamentals of Database Systems	ITS60604	None	Common Core	4
4.	Introduction to Object-Oriented Programming	ITS60804	None	Common Core	4
5.	Software Design	ITS60603	ITS60704	Common Core	3
				Total Credits	18

No.	Module Title	Code	Prerequisite	Status	Credit Hours
	Semester 4				
1.	Computing Theory	ITS60403	MTH60104	Common Core	3
2.	Distributed Application Development	ITS61604	ITS60804	Discipline Core	4
3.	Object-oriented Programming using C++	ITS61804	ITS60804	Discipline Core	4
4.	Operating Systems	ITS60503	None	Common Core	3
5.	User Interface Programming and Graphics	ITS60303	ITS60804	Common Core	3
				Total Credits	17
	Year 3				
	Semester 5				
1.	Artificial Intelligence	ITS61403	ITS60504	Discipline Core	3
2.	Elective 2			Elective	3
3.	Object-Oriented Programming using Java	ITS61004	ITS60804	Discipline Core	4
4.	Professional Computing Practice	CSC60303	None	Discipline Core	3
5.	Technopreneurship	CSC60403	None	Common Core	3
				Total Credits	16
	Semester 7				
1.	Advanced Database Systems	ITS62004	ITS60604	Discipline Core	4
2.	Elective 3			Elective	4
3.	Elective 4			Elective	4
4.	Windows Applications using .NET Technologies	ITS61704	ITS60804	Discipline Core	4
				Total Credits	16

Elective Modules

No	Code	Module Title	Prerequisite	Status	Credit
1.	ITS60904	Computer Crime and Digital Evidence	None	Elective	4
2.	ITS61504	Data Mining	ITS61004	Elective	4
3.	ITS61703	Enterprise Computing*	None	Elective	3
4.	ITS62204	Mobile Applications Development	ITS60804	Elective	4
5.	CSC60304	Multimedia Systems	ITS62304	Elective	4
6.	CSC60103	Online Presence Management**	None	Elective	3
7.	ITS61304	UNIX Programming	ITS60503	Elective	4
8.	ITS61404	Web Applications Using .NET Technologies	ITS60804	Elective	4
9.	ITS62304	Web Database Applications	ITS61104	Elective	4
10.	ITS62504	XML Technologies	ITS61104	Elective	4

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Module Synopsis - Bachelor Of Computer Science (Hons)

Module	Code	Synopsis
Advanced Database Systems	ITS62004	The subject aims to broaden knowledge of the implementation of database systems and to introduce emerging database technologies, including information retrieval, and spatial databases. File structures and indexing are discussed, and analytical details presented, that enable students to understand efficiency in query evaluation. The idea of the transaction is introduced along with the necessity of concurrency control and serialisability. Issues of backup and recovery for databases are discussed.
Artificial Intelligence	ITS61403	This course is designed to introduce to the students the techniques and algorithms used in Artificial Intelligence.
C Programming	ITS60304	This course introduces the basics of structured programming, functions, arrays, pointers, data structures and dynamic memory allocation. Topics covered include Introduction to Program Development Environment, Control Structures, Functions, Arrays, Pointers , File Processing, Data Structures and Dynamic Memory Management.
Communication Practice for IT Professionals	COM60303	This practice-based course is designed to provide students with knowledge and a practical understanding of the concepts and theories of information and communication. The course aims to equip students working with information systems with information literacy and communication skills essential for their academic work and for their future professional roles in the IT industry. Lectures will provide the theoretical basis and instruction while tutorials, practical sessions and group project work will provide training in written and oral communication as well as a realistic experience of working in teams. The knowledge and training gained in this course will help develop key skills necessary for life-long learning.
Computer Crime and Digital Evidence	ITS60904	The subject looks into legal matters, and categories of computer crime: offences against confidentiality and integrity; computer-related offences (e.g. fraud, forgery, copyright etc.); content-related offences (e.g. child pornography). Students will explore the laws pertaining to computer crime: Malaysian Cyberlaws, the UK Computer Misuse Act 1990; the EU CyberCrime Convention 2003; and applicable international law may also be presented. Students will learn to apply law relating to evidence in Malaysia specifically, and selected countries of the world generally; and the challenges in applying existing

Module	Code	Synopsis
		legislation to forensic computing. Students will understand the responsibilities of a Forensic Computing practitioner: securing evidence; ensuring continuity of evidence; use of auditable procedures when investigating evidence; admissibility of evidence; the need for impartiality; regulation and licensing. This subject also explores computer crime investigation and incident response, and forms of digital evidence: emails, documents, images, residual information. This subject also introduces students to the investigative strategies for digital evidence and computer crime scenes
Computer Systems	ITS60404	This course introduces the fundamentals of computer systems. Topics covered include data representation, data conversion, logic circuits and digital arithmetic.
Computing Theory	ITS60403	This subject aims to introduce students to foundational issues in computer science. This includes the study of measuring how long computations may take, probabilistic approaches to difficult problems, the principles of cryptography, the use of grammars to specify syntax rules, formal models of computation, and computability properties. The emphasis is on understanding and application of techniques, rather than formal mathematical proofs.
Data Mining	ITS61504	This course is designed to introduce the complexity of data mining, algorithms used in data mining and the various applications of data mining. Topics included are supervised and unsupervised learning techniques, text mining, classification techniques, neural networks and Naïve Bayes approach
Data Structures and Algorithms	ITS60504	This course introduces students to algorithm analysis and discusses the working of various data structures in details. Topics covered include Principles of Algorithms Analysis, Linked Lists, Stacks and Queues, Trees and Recursion, Hashing, Sorting Methods, Binary Search Trees and Graph Theory.
Distributed Application Development	ITS61604	This course introduces the concepts of distributed application development. Topics covered include client-server model and programming in socket level and using Remote Method Invocation (RMI). Laboratory instruction will include program development and walk-through.

Module	Code	Synopsis
Enterprise Computing	ITS61703	The purpose of this course is to provide students with a comprehensive understanding of enterprise resource planning (ERP) concepts, business processes, software configuration and system implementation. This is very much a hands-on course (with heavy lab sessions) and requires the active participation of enrolled students. .
Fundamentals of Data Communications	ITS60203	This subject will provide a broad introduction to the fundamentals of data communications and network technology. Emphasis is on higher aspects of data communications from perspective of the computer scientist and information technologist in the communication of data, and the interaction of remote systems.
Fundamentals of Database Systems	ITS60604	This course is an introduction to the principles, use, and applications of database systems. Students who complete the course will be able to design and create databases, be able to extract information from databases, understand in broad terms how database systems work, and understand the purposes for which databases are used.
Fundamentals of Software Engineering	ITS60704	This course is about understanding what we need to know before software is built, how to obtain that information, how to analyse and understand and subsequently design it. It also looks at the process and management you should incorporate to discover and create this information.
Introduction to Object-Oriented Programming	ITS60804	This course introduces the fundamentals of Object-Oriented Programming using Java. Topics covered include Object-Oriented programming concepts, classes, inheritance, polymorphism, abstract classes, interfaces, and exception handling.
Mathematics for Computing 1	MTH60104	This module will introduce the students to the discrete mathematical skills required in the field of computing and information technology.
Mobile Applications Development	ITS62204	This course will introduce students to mobile computing and mobile application development. Mobile computing will be discussed from three perspectives: mobile technology, application development, and user interaction. The course first overview various mobile computing applications, mobile web applications and technologies. Next, students will be introduced to and use mobile application frameworks and development environments to reinforce concepts covered in lectures. User

Module	Code	Synopsis
		interface and user experience will be discussed and application development guidelines from various vendors will be discussed and analysed. Lastly, the course will look at the Global Positioning System and some current mobile web applications. Students will be expected to implement the mobile applications and mobile web application in their assignments
Multimedia Systems	CSC60304	This course will introduce students to multimedia system incorporate various media such as text, graphics, audio and video according to user-centred system design approach. Students are required to design, implement and evaluate a multimedia system based on the usability and user modelling
Object-oriented Programming using C++	ITS61804	This course strengthens students' understanding of object-oriented programming concept and introduces them to OO concepts supported in C++. Topics covered include inheritance, polymorphism, generic programming, Standard Template Library, and design patterns.
Object-Oriented Programming using Java	ITS61004	This course introduces the fundamentals of Object-Oriented Programming using Java. Topics covered include Object-Oriented programming concepts, classes, inheritance, polymorphism, abstract classes, interfaces, and exception handling.
Online Presence Management	CSC60103	The module provides students with the state of the art training in using cloud computing technologies and applications. Provides hands-on project opportunities for students to build online applications that can enhance business productivity, create online presence, understanding and engaging customers with social media and analyzing online presence using different web tool technologies.
Operating Systems	ITS60503	This subject aims to introduce fundamental principles, strategies and algorithms used in operating systems.
Professional Computing Practice	CSC60303	This subject is an introduction to professional computing practices. It is intended for computer science and IT students who have not studied business principles, or who have little work experience in the industry. The subject provides a survival kit for computer science and IT graduates entering the work force. The subject considers computer ethical issues, such as information privacy, computer crime, computer misuse. The subject considers the international legal framework available to protect software system development. This includes non-

Module	Code	Synopsis
		disclosure agreements, employment contracts, intellectual property law (copyright, patent, licensing, royalties), trademarks and warranty disclaimers. The subject also considers the how ethics and law affect software system development
Software Design	ITS60603	The subject advances the student's knowledge and understanding of the fundamentals of software engineering; focusing on the software design phase/stage. Students learn and gain practical skills in software design architectures like the role of decomposition, components / subsystems, interfaces, separation of concerns, layers, architectural styles and patterns. Students also are taught advanced software design principle of design patterns; patterns definition, history of patterns, pattern languages, pattern communities, designing patterns both from general usage (i.e. model view controller, iterator and wrapper). Students in the end are expected to implement their knowledge using CASE tools and Java programming.
Systems Analysis and Design	ITS60103	The course provides basic understanding and practical skills of system analysis and design. It will help students to work in information systems related field in the future.
Technopreneurship	CSC60403	This course introduces students to the technopreneurship IT Professionals, its process, the kind of mind-set is required, starting a new business with a proper plan, financing the venture and finally managing & growing the venture.
UNIX Programming	ITS61304	This subject is designed to introduce the Unix System Administration, Shell scripting and networking technology in Unix system.
User Interface Programming and Graphics	ITS60303	Computer graphics has become such a large and important field. The implementation of graphical human-computer interfaces is an issue both in HCI and in graphics. The course also covers linear algebra and 2D geometry relevant to computer graphics and is intended to parallel and supplement the more theoretical development presented in the first year mathematics course
Web Applications Using .NET Technologies	ITS61404	This course introduces the ASP.NET, ADO.NET, security and web services. Topics covered include the .NET framework in relation to Web applications, ASP.NET server controls, ADO.NET, SQL Server, .NET security, and web services

Module	Code	Synopsis
Web Database Applications	ITS62304	This subject introduces students to the principles and practice of implementing and designing medium-size web database applications. Topics include server side scripting, session management, authentication and authorization. 60% of the assessment is assignment work, emphasizing the practical nature of the subject.
Web Systems and Technologies	ITS61104	This subject introduces the student to the basics of web technology concepts, the principles and tools that can be used to develop web applications. Topics would include internet protocols, HTML and XML files, client processing with Javascript and server side processing with PHP.
Windows Applications using .NET Technologies	ITS61704	This course introduces the .NET Framework using C#. Topics covered include the .NET framework, C# constructs, classes, inheritance, polymorphism, interfaces, exception handling, collections, generics, delegates, indexers, specific C# features, and .NET assemblies.
XML Technologies	ITS62504	Markup languages describe structure in documents and make intended meaning explicit. The eXtensible Markup Language (XML) is a markup language designed for use on the World Wide Web. XML skills are now essential in many computer science and information technology roles.This subject is an introduction to the principles, use, and application of document markup languages, especially for use on the World Wide Web, focussing on XML. Topics include document markup languages (especially XML); document description languages (such as Document Type Definitions (DTDs) and XML Schemas); XML namespaces; document transformation and manipulation (using eXtensibleStylesheet Language Transformations (XSLT) and XML APIs, such as the Simple API for XML (SAX) and the Document Object Model (DOM)); document query languages (specifically XQuery); and XML databases.

SCHOOL OF EDUCATION

Programme Structure - Bachelor Of Education

No.	Module Title	Code	Credit Hours
Year 1			
Semester 1			
1.	Educational Psychology I	EDU61003	3
2.	Grammar and Usage	EDE60103	3
3.	Introduction to Global History of Education	EDU61203	3
4.	Nature of Science	EDS60103	3
5.	Numbers, Operations and Measurement at Primary Level	EDM60103	3
6.	Professional Practice 1: Teaching Profession and Standards	EDP60101	1
7.	Professional Practice 2: School Culture and Teacher Assistantship	EDP60102	2
		Total Credits	18
Semester 2			
1.	Educational Psychology II	EDU60202	2
2.	Global Education	EDU61303	3
3.	Technology-enabled Teaching and Learning	EDU60103	3
		Total Credits	8
Semester 3			
1.	Education and Society	EDU60303	3
2.	Open Elective I		3
3.	Philosophy of Education	EDU61103	3
		Total Credits	9
Year 2			
Semester 4			
1.	Assessing Learning	EDU60403	3
2.	Open Elective II		3
3.	Open Elective III		3
4.	Teaching Primary School English Language	EDE60105	5
		Total Credits	14
Semester 5			
1.	Managing Co-curriculum	EDU60302	2
2.	Teaching Primary School Science	EDS60105	5
		Total Credits	7

No.	Module Title	Code	Credit Hours
Semester 6			
1.	Children's Literature	EDE60203	3
2.	Curriculum Development	EDU61403	3
3.	Geometry at Primary Level	EDM60203	3
4.	Professional Practice 4:Lesson Preparation	EDP60201	1
5.	Professional Practice 5: Lesson Delivery and Management	EDP60301	1
6.	Science - Diversity and Cycle	EDS60203	3
7.	Teaching Primary School Mathematics	EDM60105	5
		Total Credits	19
Year 3			
Semester 7			
1.	Action Research	RES60403	3
2.	Introduction to Linguistics	EDE60303	3
3.	Professional Practice 6: Classroom Management	EDP60401	1
4.	Professional Practice 7: Feedback and Evaluation	EDP60501	1
5.	Science – Energy and Forces	EDS60303	3
6.	Statistics at Primary Level	EDM60303	3
		Total Credits	14
Semester 8			
1.	Algebra at Primary Level	EDM60403	3
2.	Science - Systems and Interactions	EDS60403	3
3.	Sociolinguistics	EDE60403	3
		Total Credits	9
Semester 9			
1.	Action Research Project	RES60503	3
2.	Professional Practice 3: Theory Into Practice	EDP60203	3
3.	Professional Practice 8: Co-curriculum in Primary School	EDP60601	1
4.	Professional Practice 9: Reflective Practice	EDP60303	3
		Total Credits	10

Module Synopsis - Bachelor of Education (Primary Education)

Module	Code	Synopsis
Action Research	RES60403	This is the first of the two courses that focus on classroom research. Students will be introduced to action research in theory and practice in relation to teaching in primary schools. They will learn a range of classroom-based research methods to develop their capacity to conduct a small-scale action research to address a problem in a teaching context. Having this capacity will enable the students to systematically examine and gain deeper insights into the workings of a school, and develop as reflective teachers and practitioner researchers. Topics include the selection, framing and justification of a research problem, literature review, different methods used in classroom-based research, the process of data collection and analysis, developing and writing research proposal, and ethical issues classroom research.
Action Research Project	RES60503	This is the follow-up from the Action Research course that focuses on classroom research. Using the proposal developed in the Action Research course, students will critically examine a range of perspectives and theoretical frameworks relevant to the school setting, conduct the research, collect and analyse data and write a research report aimed developing practice.
Algebra at Primary Level	EDM60403	This course introduces students to algebra in the primary school mathematics. It exposes students to the aims of teaching algebra in primary school mathematics, what algebra is, the key ideas and concepts in algebra at primary level, and the notion of algebraic thinking. It also analyses the organisation of algebra contents in primary mathematics curriculum and research on the learning of algebra at primary level. Students will also learn how to solve and design problems related to algebra at primary level taking into consideration the mathematical thinking and processes involved in the context of learning to be competent at teaching algebra in primary school.
Assessing Learning	EDU60403	The course focuses on the centrality of assessment to quality learning and teaching. The nature and roles of assessment, including the principles, standards, procedures and practice of good assessment will be discussed. Included too will be the pivotal issues of validity, reliability, fairness and usability, and the critical roles played by assessment in supporting learning as well as improving teaching. Different approaches to assessment – of, for and as learning – and their contributions to effective learning and teaching, the critical roles of feedback, the

Module	Code	Synopsis
		importance of diversity of assessment processes and instruments (vis-à-vis traditional and alternative assessment), transparency and explicitness of assessment criteria and scoring, reporting, assessment-related ethical issues, and contemporary issues in assessment will also be discussed.
Children's Literature	EDE60203	This course focuses on the principles of using children's literary texts in the primary classroom to enhance teaching and learning. Students will be exposed to fiction and non-fiction texts written for children: prose, fables, fairy tales, picture books, biographies. autobiographies, poems and verse. Techniques of incorporating these literary texts to enhance teaching and learning will also be covered.
Curriculum Development	EDU61403	The focus of this course is to enable students to have a firm grasp of what a school curriculum is all about, and hence appreciate its centrality in shaping the kinds and quality of learning students derived from the learning experiences designed for them through the way the curriculum is stitched together. The course will discuss the various meanings of curriculum, its foundations, the approaches to curriculum, design principles and the widely used models used in designing it as well as the standards that have been employed to benchmark and judge its quality. It is also intended to empower students to analyse a curriculum as framed by its aims and purpose.
Education and Society	EDU60303	This course examines the social aspects of education and schooling: the relationship between home, society, educational institutions and educational values; the ways that social inequalities are reproduced through schools; and the ways that identities are formed through education. It also covers major social theories that attempt to explain children's experience of schooling and how schools reproduce society. Particular attention will be paid to the way interactions within educational settings have much larger implications within society and vice-versa.
Educational Psychology I	EDU61003	NA

Module	Code	Synopsis
Educational Psychology II	EDU60202	This course focuses on the strategies of effective management of the classroom which includes organization of time, physical space, curriculum, instruction, and pastoral care provision. Students are introduced to various theories of classroom management, techniques on how to establish a conducive classroom climate to support and sustain learning and how to work with students with different needs. Students are also exposed to the pastoral responsibilities of primary school teachers, monitoring and evaluation of pastoral care, and the different types of pastoral activities concerned with meeting the different needs of students.
Geometry at Primary Level	EDM60203	This course introduces students to geometry in the primary school mathematics. It exposes students to the aims of teaching geometry in primary school mathematics, what geometry is, the key ideas and concepts in geometry at primary level and the notion of geometrical thinking. It also analyses the organisation of geometry contents in primary mathematics curriculum and research on the learning of geometry at primary level. Students will also learn how to design and slove problems related to geometry at primary level taking into consideration the mathematical thinking and processes involved in the context of learning to be competent at teaching geometry in primary school.
Global Education	EDU61303	The focus of this course is to enable students to have an understanding of what is meant by the term global education. Introduction to the Maastricht Global Education Declaration (2002). Issues related to global education: development education, human rights education, education for sustainability, education for peace and conflict prevention and intercultural education.
Grammar and Usage	EDE60103	This course aims to improve the English language proficiency of students. It offers an overview of English grammar. It equips students with a deeper understanding of the grammar of the English Language and provides students the opportunity to familiarize themselves with the different parts of speech in the language. It focuses on the rules of grammar and the analysis of the language in use.

Module	Code	Synopsis
Introduction to Global History of Education	EDU61203	The module focuses on both the concept of history and its influence on education. Students will be exposed on how social, economic, political, religious, cultural, scientific and technological events of the past have influenced the direction and meaning of what is education.
Introduction to Linguistics	EDE60303	This course seeks to introduce students to the study of the English language. The study includes the development, social context, syntax, structure, meaning and sound system of the English Language.
Managing Cu-curriculum	EDU60302	This course focuses on the concept, aims and rationale of co-curriculum in primary schools. It discusses the various kinds of co-curricular activities in schools in relation to the aims of co-curriculum in primary schools, and compare and contrast between these activities. It provides students with the opportunity to participate in various kinds of co-curriculum activities and be acquainted with co-curriculum activities in primary schools. It prepares students to meet the objectives, planning, implementation and evaluation of co-curriculum activities in schools.
Nature of Science	EDS60103	This course introduces students to the nature of science and its importance to be literate in science. It also exposes students to the stands of philosophers about the scientific inquiry and the scientific enterprise. Students will analyse nature of science in the context of primary science education standards and the role of teachers in imparting the sound understanding on nature of science to their future students will also be discussed. This course will also expose the students to the prevalent misconceptions on nature of science so that they can be competent at teaching science in primary school.

Module	Code	Synopsis
Numbers, Operations and Measurement at Primary Level	EDM60103	This course introduces students to numbers, operations and measurements in the primary school mathematics. It exposes students to the aims of teaching numbers, operations and measurements in primary school mathematics, what numbers is and the key concepts in numbers, operations and measurements at primary level. It also discusses the organisation of numbers, operations and measurements contents in primary mathematics curriculum and research on the learning of statistics at primary level. Students will also learn how to solve problems related to numbers, operations and measurements at primary level with emphasis on the mathematical thinking and processes involved in the context of learning to be competent at teaching numbers, operations and measurements in primary school.
Philosophy of Education	EDU61103	This course examines the philosophical ideas that influence primary school education. These ideas extend from the Western secular tradition to Eastern religious perspective involving philosophers from Socrates to Imam Ghazali. From these ideas questions such as "What is education?", "What does it mean to be an "educated" person?", "What factors distinguish a "good" from a "bad education?" and a few others will be explored. The intent of the course is to enable students to be more informed and have the capacity to develop a personal educational philosophy.
Professional Practice 1: Teaching Profession and Standards	EDP60101	The course is designed as the first part of student's professional practice, where it focuses on the roles and responsibilities of a primary school teacher in a changing environment. Students will explore the ethical, social and legal dimensions of the teaching profession including examining the teaching standards. Through the practical experience in school, students will be able to examine the teaching profession in a more informed way under the guidance of an experienced teacher in the primary school.
Professional Practice 2: School Culture and Teacher Assistantship	EDP60102	The course will give the student the opportunity to learn from being in a school environment and immerse in the school culture, in addition to gaining valuable practical experience in helping teachers to plan lessons, prepare resources, manage pupils, and organize school events. Through these experiences and the ensuing reflections they will develop a more nuanced and deeper understanding of the role of a teacher, in particular a primary school teacher, and the challenges of teaching.

Module	Code	Synopsis
Professional Practice 3: Theory Into Practice	EDP60203	This course is designed to provide students with the practical experience of teaching within a school system. Students will gain insight through their management of both curricular and co-curricular activities in primary schools. Students will design and critique their lesson plans and teaching materials and gain practical experience in presenting their materials in classroom settings. This course will enable students to put into practice various theories that have been learned in this programme. Students will acquire knowledge, skills and predisposition necessary for effective teaching through the mentoring process by working under the guidance of an experienced teacher in the primary school.
Professional Practice 4:Lesson Preparation	EDP60201	The course is designed as the forth of a series of student's professional practice, where it focuses on the importance and strategies for lesson preparation. Students will explore the objectives of a lesson, various learning activities and the resources to be used to prepare for a lesson. Through the practical experience in school, students will be able to examine the teaching profession in a more informed way under the guidance of an experienced teacher in the primary school.
Professional Practice 5: Lesson Delivery and Management	EDP60301	The course is designed as the fifth of a series of student's professional practice, where it focuses on the lesson delivery and management. Students will explore how the lesson is introduced and concluded, the pacing of lesson components, ways of giving clear instructions in class, the questioning techniques, and on ways of organizing individual and group learning. Through the practical experience in school, students will be able to examine the teaching profession in a more informed way under the guidance of an experienced teacher in the primary school.
Professional Practice 6: Classroom Management	EDP60401	The course is designed as the sixth of a series of student's professional practice, where it focuses on the classroom management. Students will explore the interactions during lesson, how supportive learning environments are established, ways in encouraging good behaviour in the classroom and ways of establishing rules and routines. Through the practical experience in school, students will be able to examine the teaching profession in a more informed way under the guidance of an experienced teacher in the primary school.

Module	Code	Synopsis
Professional Practice 7: Feedback and Evaluation	EDP60501	The course is designed as the seventh of a series of student's professional practice, where it focuses on the assessment. Students will explore how feedback is given, how understanding is monitored, how written work is designed, as well as understanding the assessment procedures. Through the practical experience in school, students will be able to examine the teaching profession in a more informed way under the guidance of an experienced teacher in the primary school.
Professional Practice 8: Co-curriculum in Primary School	EDP60601	The course is designed as the eight of a series of student's professional practice, where it focuses on primary school co-curriculum. It enables students to understand the concept of physical education and co-curriculum. It provides students with the opportunity to participate in various kinds of co-curriculum activities and be acquainted with co-curriculum activities in primary schools. It prepares students to meet the objectives, planning, implementation and evaluation of co-curriculum activities in schools.
Professional Practice 9: Reflective Practice	EDP60303	The course is designed as the last of a series of student's professional practice, where it focuses on the notion of reflective practice. It act as an approach to enable teachers as professionals to learn from experience, specifically to understand how they use their knowledge in practical situations and how they can combine practice and learning in a more effective way. The course will explore deeper the notion of reflective practice and the reflective practitioner in the context of the teaching profession by putting it in practice.
Science - Systems and Interactions	EDS60403	This course introduces students to the themes of systems and interactions in the primary science subject. It exposes students to the aims of teaching systems and interactions in primary school and what are systems and interactions at primary level. It also discusses the organization of systems and interactions in primary science curriculum and research on the learning of these two themes at primary level. Students will also learn how to design and solve problems related to systems and interactions at primary level to be competent at teaching systems and interactions in primary school.
Science – Diversity and Cycle	EDS60203	This course introduces students to the themes of diversity and cycles in the primary science subject. It exposes students to the aims of teaching diversity and cycles in primary school and what are diversity and cycles at primary level. It also discusses the organization of diversity and cycles in primary science

Module	Code	Synopsis
		curriculum and research on the learning of these two themes at primary level. Students will also learn how to solve problems related to diversity and cycles at primary level to be competent at teaching diversity and cycles in primary school.
Science – Energy and Forces	EDS60303	This course introduces students to the themes of energy and forces in the primary science subject. It exposes students to the aims of teaching energy and forces in primary school and what are energy and forces at primary level. It also discusses the organization of energy and forces in primary science curriculum and research on the learning of these two themes at primary level. Students will also learn how to design and solve problems related to energy and forces at primary level to be competent at teaching energy and forces in primary school.
Sociolinguistics	EDE60403	In this module, students will engage critically with topics with regards to the relationship between language and society. The module will focus on how language use varies in relation to a range of social factors, such as social class, age, gender and ethnicity. The topics covered will range across macro-level issues such as language planning and policy, language variation and education, through issues concerned with multilingualism, pidgins & creoles, to more micro-issues like code-switching and code-mixing.
Statistics at Primary Level	EDM60303	This course introduces students to statistics in the primary school mathematics. It exposes students to the aims of teaching statistics in primary school mathematics, what statistics is and the key ideas and concepts in statistics at primary level. It also analyses the organisation of statistics contents in primary mathematics curriculum and research on the learning of statistics at primary level. Students will also learn how to design problems related to statistics at primary level taking into consideration the mathematical thinking and processes involved in the context of learning to be competent at teaching statistics in primary school.
Teaching Primary School English Language	EDE60105	This course aims to enable students to have an overview of the issues of learning the English language as a first and second language. It examines the developments of English language teaching in primary school education. It helps to develop students' knowledge and understanding in current developments in English language teaching by exposing students to varied approaches, methods, procedures and techniques in teaching the four language skills.

Module	Code	Synopsis
Teaching Primary School Mathematics	EDM60105	This course focuses on the why, what and how of primary school mathematics teaching. Students will be exposed to the aims and framework of primary mathematics curriculum, the nature of mathematical thinking and mathematical communication in the classroom, the psychological theories of learning and teaching mathematics and formation of mathematics concepts, pedagogical principles of mathematics teaching including various teaching strategies and the purpose and use of drill and practice in primary mathematics. Also covered will be strategies for teaching the five strands of primary school mathematics: numbers and operations, data, measurement, geometry and algebra. Included too techniques and procedures for diagnosing and teaching pupils with mathematical difficulties as well as gifted and high ability pupils, and the development of schemes of work, lesson plans and assessment tasks.
Teaching Primary School Science	EDS60105	This course focuses on the why, what and how of primary school science teaching. Students will be exposed to the scientific inquiry, aims and framework of primary science curriculum, the theories of learning and teaching science and formation of science concepts, pedagogical principles of science teaching in primary schools, including various teaching strategies. Students will also be exposed to principles of developing schemes of work, lesson plans and assessment tasks for primary science. In addition, students will have opportunities to construct deep and rich understandings of a select number of ideas in science such as diversity, cycles, systems, energy and interaction of forces.
Technology-enabled Teaching and Learning	EDU60103	The course focuses on the use of technology for effective teaching and learning in primary schools. Students will be exposed to various technologies that can be incorporated into teaching and learning in the primary classroom. Theory will be combined with pedagogical use of technology to enhance teaching and learning. Lesson planning incorporating different technologies as well as evaluation criteria for assessing the use of technology in classrooms will also be discussed.

SCHOOL OF ENGINEERING

Programme Structure – Bachelor of Engineering (Hons) Chemical Engineering

No.	Module Title	Code	Prerequisite	Status	Credit Hours
Year 1					
Semester 2					
1.	Biochemical Processes	CHE60203	None	Core	3
2.	Engineering Design & Ergonomics	PRJ60203	PRJ60103	Core	3
3.	Engineering Mathematics II	MTH60203	MTH60103	Core	3
4.	Malaysian Studies 3	MPU3173	None	MPU1	3
5.	Properties and Applications of Materials	ENG60503	None	Core	3
6.	Thermodynamics and Heat Transfer	ENG60303	None	Core	3
				Total Credits	18
Year 2					
Semester 3					
1.	Chemical Engineering Thermodynamics and Simulation	CHE60303	ENG60303	Core	3
2.	Computing Applications for Engineers	ENG60104	None	Core	4
3.	Engineering Mathematics III	MTH60303	MTH60203	Core	3
4.	Multidisciplinary Engineering Design	PRJ60303	PRJ60203	Core	3
5.	Process Integration and Unit Operations I	CHE60603	CHE60103	Core	3
				Total Credits	16
Semester 4					
1.	Engineering Design & Innovation	PRJ60403	PRJ60303	Core	3
2.	Engineering Mathematics IV	MTH60403	MTH60303	Core	3
3.	Managing Projects for Success	ENG60703	None	Core	3
4.	Mass Transfer	CHE60403	ENG60303	Core	3
5.	Process Integration and Unit Operations II	CHE60903	CHE60603	Core	3
6.	Reactor and Catalysis	CHE60503	CHE60203	Core	3
				Total Credits	18

No.	Module Title	Code	Prerequisite	Status	Credit Hours
	Year 3				
	Semester 5				
1.	Advanced Heat and Momentum Transfer	CHE60703	CHE60403	Core	3
2.	Chemical Process Modelling	CHE60803	MTH60403	Core	3
3.	Data Measurement, Analysis and Experimental Design	ENG61103	None	Core	3
4.	Engineering Economics	CHE61303	None	Core	3
5.	Introduction to Electronics and Electrical Power Machines	ENG60903	None	Core	3
6.	Leading in the 21st Century	UCM60402U2	None	MPU2	2
				Total Credits	17
	Semester 6				
1.	Advanced Heat and Momentum Transfer	CHE60703	CHE60403	Core	3
2.	Chemical Process Control	CHE61103	CHE60803	Core	3
3.	Data Measurement, Analysis and Experimental Design	ENG61103	None	Core	3
4.	Engineering Economics	CHE61303	None	Core	3
5.	Malaysian Food Heritage	UCM60102U3	None	MPU3	2
6.	Safety in Process Plant Design	CHE61403	None	Core	3
				Total Credits	17
	Year 4 (Semester 7)				
1.	Chemical Engineering Group Project 1	PRJ 61103	PRJ60403 CHE61903	Core	3
2.	Engineering Economics	CHE61303	None	Core	3
3.	Final Year Engineering Project 1	PRJ60703	PRJ60403 Complete at least 95 credit hours	Core	3
	Choose Electives				
	Business Skills for Engineers	BUS60403	None	Elective	3
	Computational Fluid Dynamics	MEC60703	None	Elective	3
	Computer Aided Engineering & Geometric Modeling	ENG60603	None	Elective	3
	Renewable & Alternative Energies	MEC61003	None	Elective	3
				Total Credits	15

No.	Module Title	Code	Prerequisite	Status	Credit Hours
Semester 8					
1.	Chemical Engineering Group Project 2	PRJ61203	PRJ61103 CHE61903	Core	3
2.	Final Year Engineering Project 2	PRJ60206	PRJ60703	Core	6
Choose Electives					
	Business Skills for Engineers	BUS60403	None	Elective	3
	Computational Fluid Dynamics (CFD)	MEC60703	None	Elective	3
	Computer Aided Engineering & Geometric Modeling	ENG60603	None	Elective	3
	Renewable & Alternative Energies	MEC61003	None	Elective	3
				Total Credits	15

Module Synopsis – Bachelor of Engineering (Hons) Chemical Engineering

Module	Code	Synopsis
Advanced Heat and Momentum Transfer	CHE60703	This module covers critical theoretical material for momentum transport and addresses viscous and turbulent flows between solid boundaries. The principle of similitude is applied to the design and analysis of pumped flow systems and cost optimisation is applied to the design of pipelines. Engineering applications such as complex pipe networks and combined pipe-pump systems are analysed. Computer based methods of solution of heat and mass transfer problems are introduced and applied to some process examples.
Biochemical Processes	CHE60203	This module introduces some fundamental aspects of chemical and biochemical processing, focusing on reactor design and basic purification-separation technologies. The basic concepts and language of biology are introduced, in order that students are equipped to understand biochemical, food and environmental engineering applications. Reaction engineering, including kinetics, simple contacting schemes and how to create the right conditions for efficient conversion of reactants into products are then introduced. The final focus is on purification of products leaving the reactor using mass transfer devices such as plate and packed columns. The concept that a process is an integrated whole and not just an assembly of unit operations is introduced.
Business Skills for Engineers	BUS60403	Covers the engineering and management and business environment, including the financial and legal aspects of doing business and E-Commerce.
Chemical Engineering Group Project 1	PRJ 61103	In this module, students work in groups (of approximately five) to produce group and individual reports concerning the design of a chemical/biochemical/minerals processing plant. They also make formal and informal oral presentations. All reports and presentations are to be to of commercial and professional standard. The design work is supported by frequent classes and seminars, and if possible, a site visit. The plant design calculations and simulations are done using software such as PROII and UniSim software. In most cases, a manufacturing or commercial organisation will provide background material and data, and the supporting involvement of staff from such organisations is encouraged. Each student group reports to the supervisor in charge, who takes responsibility for administering the project, the progress and welfare of the design teams and marking.

Module	Code	Synopsis
Chemical Engineering Group Project 2	PRJ 61203	This module is a continuation of PRJ61103. Students continue to work in their groups to produce group reports concerning the theoretical design of a chemical/biochemical/minerals processing plant. They also continue to make formal and informal oral presentations. All reports and presentations are to be to of commercial and professional standard. The design work is supported by frequent lectures, tutorials and seminars, and if possible, a site visit. Each student group continues to report to a "board" or group of about 4 – 5 under supervision of academic staff, who takes responsibility for administering the project, the progress and welfare of the design teams and marking. The Design Project exploits much prior learning, being the culmination of the students learning. It is the module above all that requires a holistic approach to chemical engineering. It is necessary to pass this module to fulfil the taught design requirement of the Institution of Chemical Engineers, for subsequent achievement of Professional Engineer or Chartered Engineer status.
Chemical Engineering Thermodynamics and Simulation	CHE60303	This module deals with a variety of topics such as the basic laws of Thermodynamic, Maxwell Relationships and energy, Equations of State and predictions of pure component properties, Phase Equilibria and Chemical Equilibria. Simulator is intended to introduce students to the fundamentals of computer-aided process synthesis, simulation, analysis and optimisation. Practical problems are used as examples.
Chemical Process Control	CHE61103	This module builds upon the primarily conceptual knowledge gained in the prerequisite module (CHE60803), to cover the basic principles of analysis and design of process level control systems, and the appropriate mathematical tools. Topics discussed include transfer functions, ideal dynamic systems, classical PID controllers, feedback control block diagram analysis, stability concept and analysis, structure and components of modern control loops, and practical aspects of industrial process control.
Chemical Process Modelling	CHE60803	This module consists of three elements: matrix modelling methods, mathematics and dynamic modelling techniques, and issues in modern process control and modelling. Students are taught how to construct and analyse advanced dynamic models of chemical engineering systems. A number of mathematical techniques with applications in chemical engineering are covered. It also covers the mathematical tools required to analyse and solve linear and non-linear chemical

Module	Code	Synopsis
		engineering-based models, with examples.
Computational Fluid Dynamics (CFD)	MEC60703	Present the essential concepts and skills for CFD using both a theoretical approach and practical approach using commercial software.
Computer Aided Engineering & Geometric Modeling	ENG60603	This subject presents the processes of CADCAM from the conceptual design stage to the manufacturing stage via hands-on experience of component shape design and virtual and real RPM-machining.
Computing Applications for Engineers	ENG60104	Provides skills that promote the effective use of Microsoft Office Suite: Word, Excel, Project and PowerPoint. Introduces programming with MATLAB and C Programming.
Data Measurement, Analysis and Experimental Design	ENG61103	This module introduces the statistical methodologies necessary to design and analyse a range of industrial experiments.
Engineering Design & Ergonomics	PRJ60203	This module provides foundation in designing products that work in accordance with the way humans think, see and behave. Products that are compatible with people with dramatically reduce human error, fatigue, discomfort and stress and have a profound positive impact on overall end-user performance.
Engineering Design & Innovation	PRJ60403	This module equips engineering students with innovation techniques such as design thinking and TRIZ, sharpening their innovation skills. This will empower them to develop financially and economically sustainable solutions and enable.
Engineering Economics	CHE61303	This module deals with principles and the basic equations for the value of money and alternative selections. It considers the factors in the engineering economy, interest rates, present worth, annual worth, rate of return, income tax and breakeven analysis.
Engineering Mathematics II	MTH60203	This module covers more essential mathematical knowledge and techniques for solving engineering problems.
Engineering Mathematics III	MTH60303	This module covers the mathematical modelling of engineering problems using differential equations and introduces various techniques for solving the problems.

Module	Code	Synopsis
Engineering Mathematics IV	MTH60403	This module covers the transformation of system representation between time and complex frequency domains and its analysis and solution. This module also covers basic statistics and probability theories and their applications.
Final Year Engineering Project 1	PRJ60703	This is an individual research project. Student selects a project from a given list. Project is awarded based on higher CGPA should more than one student select the same project. The pre-requisite for this module is that the student must be in the final two semesters of study (completed at least 95 credit hours), and has completed all the project based modules required from semester 1 to semester 6.
Final Year Engineering Project 2	PRJ 60206	This is a continuation of the Final Year Engineering Project I (PRJ60703). Students continue their research work: collecting data, conducting experiments, or through whatever approach that has been decided upon in PRJ60703. The project concludes with a thesis, oral defense, EURECA conference and Engineering Fair.
Introduction to Electronics and Electrical Power Machines	ENG60903	The aim of this module is to introduce aspects of electronics and electrical engineering to students of other engineering disciplines in the context of applications in their discipline. This should develop their confidence when interacting with electrical engineers in industry. The module begins with a review of the areas where electronic and electrical engineering principles are applied in civil, chemical, manufacturing and mechanical engineering and materials science. An introduction to basic concepts of electronics leads into DC circuits and circuit analysis, power and energy. An appreciation of linear and non-linear components is provided through the diode and LED. Active learning in the lecture environment will be a key feature of this section. The concept of electrical transducers as a means of interfacing to, and monitoring, the real world leads to the simple application of operational amplifiers. Examples of uses of transducers and actuators in engineering industry will emphasise the importance of proper calibration. As an exercise students will specify a transducer for a particular application to achieve the appropriate range, gain and accuracy.
Leading in the 21st Century	UCM60402U2	At the end of the programme, students will be able to avoid common leadership pitfalls by mastering relevant skills set such as decision-making, goal-setting, motivation, conflict management and teamwork.

Module	Code	Synopsis
Malaysian Food Heritage	UCM60102U3	This module will take the students through the historical event that brought changes to the culinary environment in Malaysia specifically to the ingredients availability, and the techniques used to prepare the food. The students will also have the opportunity to discuss about the impact of current issues such as shortage of food ingredients, improvement of technology that will change the authenticity of the food itself.
Malaysian Studies 3	MPU3173	Malaysian Studies encompasses the story of; early history of Malaya up to the formation of Malaysia, administrative system of Malaysia and Malaysian economic, social and foreign policies.
Managing Projects for Success	ENG60703	Ensuring projects run successfully has become very critical in today's fast changing world. The module will cover the knowledge areas and explore the key factors for completing projects on time within budget and allocated resources. Practical tools and techniques will be introduced to guide and manage projects to success
Mass Transfer	CHE60403	This module covers the theory behind mass transfer. This includes 1-dimensional and 2-dimensional steady and unsteady state mass transfer. The analogy between heat and mass transport process is developed and explained. Chemical engineering processes such as membrane separations, drying, humidification and cooling, absorption, adsorption, and extraction are described.
Multidisciplinary Engineering Design	PRJ60303	The main features of this module are the System Thinking, multidisciplinary and complexity level of the design encounter with focus on satisfying contradicting stakeholder's requirements and sustainability. While working in multidisciplinary teams students will create products and processes that are designed for manufacturability, affordability, recyclability and sustainability.
Process Integration and Unit Operations I	CHE60603	This module introduces the methodologies for the synthesis of a new process and discusses the factors governing process selection. It also introduces problem-solving approaches reflecting current trends in process integration such as efficient material and energy usage and emissions reduction. Pinch technology is introduced and used to develop heat exchanger networks, with software demonstrations. Starting with the unit operations of distillation and drying, the interactions and interdependency between different process units are next discussed via case studies. Stoichiometry and Processes Applications (CHE60103) is a prerequisite module,

Module	Code	Synopsis
		because that is where the concept that a process is an integrated whole and not just an assembly of unit operations has been introduced.
Process Integration and Unit Operations II	CHE60903	In this module, the interactions and interdependency between different process units are further developed via case studies. The module builds on these principles by introducing more unit processes such as liquid-liquid extraction, crystallisation and leaching (solid-liquid extraction), as well as advanced multiphase separations (including ion exchange, affinity chromatography, and gel filtration) with particular emphasis on the selection of the appropriate methods to meet process requirements.
Properties and Applications of Materials	ENG60503	This module introduces the range of materials used in engineering applications along with some basic selection rules for determining the appropriate materials for a given application. The module also introduces fundamental science that determines the properties of materials, such as bonding types and atomic / molecular structures.
Reactor and Catalysis	CHE60503	This module covers the fundamentals of reactors and catalysis, particularly in the context of formulation engineering. It introduces the effects of temperature in ideal reactors, catalysts and catalytic reactors, intra particle transport phenomena, transport phenomena in fixed bed reactors and fluidised beds, reactor design for functional products, introduced through supported metal catalyst formulation and production of a food product.
Renewable & Alternative Energies	MEC61003	Renewable energies, solar energy, bioenergy, hydroelectricity, tidal power, wave energy, wind energy, geothermal energy, integration.
Safety in Process Plant Design	CHE61403	This module covers hazards, human errors, HAZOPS, safety standards, risk assessment methodology and safety management in details for industrial safety.
Thermodynamics and Heat Transfer	ENG60303	This module combines the knowledge related to both energy transfer (as heat) and thermodynamics to expose the students to a wide variety of topics that will be instrumental in their academic and career advancement like the applications of the first and second laws of thermodynamics and the mechanisms with which heat transfers. This is tied closely to the analysis of heat engines, heat pumps, heat cycles and heat exchangers.

Programme Structure – Bachelor of Engineering (Hons) Electrical & Electronic Engineering

No.	Module Title	Code	Prerequisite	Status	Credit Hours
Year 1					
Semester 2					
1.	Circuit and Devices	EEE60403	None	Core	3
2.	Digital Electronics	EEE60203	None	Core	3
3.	Engineering Design & Ergonomics	PRJ60203	PRJ60103	Core	3
4.	Engineering Mathematics II	MTH60203	MTH60103	Core	3
5.	Malaysian Studies 3	MPU3173	None	MPU1	3
				Total Credits	15
Year 2					
Semester 3					
1.	Analogue Electronics	EEE60503	EEE60403	Core	3
2.	Data Communications and Networks	EEE60803	None	Core	3
3.	Electromagnetic Fields and Waves	EEE60703	MTH60203	Core	3
4.	Engineering Mathematics III	MTH60303	MTH60203	Core	3
5.	Leading in the 21st Century	UCM60402U2	None	MPU2	2
6.	Multidisciplinary Engineering Design	PRJ60303	PRJ60203	Core	3
				Total Credits	17
Semester 4					
1.	Analogue Electronics	EEE60503	EEE60403	Core	3
2.	Electrical Power Systems	EEE61303	EEE60703	Core	3
3.	Engineering Design & Innovation	PRJ60403	PRJ60303	Core	3
4.	Engineering Mathematics IV	MTH60403	MTH60303	Core	3
5.	Managing Projects for Success	ENG60703	None	Core	3
6.	Signals and Systems	EEE60303	EEE60103	Core	3
				Total Credits	18

No.	Module Title	Code	Prerequisite	Status	Credit Hours
Year 3				
Semester 5				
1.	Control Systems	EEE61203	EEE60103	Core	3
2.	Digital Signal Processing	EEE61003	EEE60303	Core	3
3.	Electrical Engineering Group Project I	PRJ60903	PRJ60403	Core	3
4.	Electrical Power Systems	EEE61303	EEE60703	Core	3
5.	Malaysian Food Heritage	UCM60102U3	None	MPU3	2
6.	Power Electronics	EEE61403	EEE63103	Core	3
				Total Credits	17
Semester 6				
1.	Business Skills for Engineers	BUS60403	None	Core	3
2.	Digital Signal Processing	EEE61003	EEE60303	Core	3
3.	Electrical Engineering Group Project II	PRJ61003	PRJ60903	Core	3
4.	Electrical Power Systems	EEE61303	EEE60703	Core	3
5.	Power Electronics	EEE61403	EEE63103	Core	3
				Total Credits	15
Year 4				
Semester 7				
1.	Design of Electrical Apparatus	EEE61903	EEE63103	Elective	3
2.	Electrical Power Systems	EEE61303	EEE2113	Core	3
3.	Final Year Engineering Project 1	PRJ60703	PRJ61003 Complete at least 95 credit hours	Core	3
4.	Power System Protection and Switchgear	EEE62503	EEE3513	Core	3
5.	VLSI Design	EEE61603	EEE60203	Elective	3
				Total Credits	15
Semester 8				
1.	Design of Electrical Apparatus	EEE61903	EEE63103	Elective	3
2.	Final Year Engineering Project 2	PRJ60206	PRJ60703	Core	6
3.	Power System Protection and Switchgear	EEE62503	EEE3513	Core	3
4.	VLSI Design	EEE61603	EEE60203	Elective	3
				Total Credits	15

Module Synopsis – Bachelor of Engineering (Hons) Electrical & Electronic Engineering

Module	Code	Synopsis
Analogue Electronics	EEE60503	This module deals with semiconductor diode rectifier and filter circuits. It also introduces the design and analysis of BJT, FET, Op-Amp, Feed back, Oscillator and Power Amplifier circuits.
Business Skills for Engineers	BUS60403	Covers the engineering and management and business environment, including the financial and legal aspects of doing business and E-Commerce.
Circuit and Devices	EEE60403	This module deals with the circuits and the physics of conduction in solids and the effects of electric fields. The terminal characteristics of basic devices are derived from first principles.
Control Systems	EEE61203	This module deals with the open loop and closed loop control systems. It introduces mathematical models of different physical systems. Time domain and frequency domain analysis are applied to determine the stability of systems. Concepts of state space analysis are introduced.
Data Communications and Networks	EEE60803	This modules deals with the data communications, networks and protocols associated with digital transmission applications e.g. internet.
Design of Electrical Apparatus	EEE61903	Design of Electrical Machines from the first principles of electromagnetics. It covers the design of electrical machines through modelling tool design with emphasis on the design constraints during the design process.
Digital Electronics	EEE60203	This module deals with the theory and practice of logic, digital circuit design and digital representation of information.
Digital Signal Processing	EEE61003	This module deals with the ideas of digital signal processing, its advantages and applications. It introduces the engineering applications of Z-transform, discrete Fourier transform and fast Fourier transform. It also deals with the design and realization of digital filters.
Electrical Engineering Group Project I	PRJ60903	A technical specification is issued to self-selected groups of students. These groups then decide on their technical and managerial approach to the task. The groups are assessed on technical merit, added-value, end-product and demonstrable team working skills developed during the project.

Module	Code	Synopsis
Electrical Engineering Group Project II	PRJ61003	This is a continuation of PRJ60903, where groups continue working on their projects, carrying them to completion. The groups are assessed on technical merit, added-value, end-product and demonstrable team working skills developed during the project.
Electrical Power Systems	EEE61303	This module deals with generation, transmission and distribution of electrical power. It introduces the switch gear and protection of power system. It also deals with load flow analysis, fault analysis and power system stability.
Electromagnetic Fields and Waves	EEE60703	This module deals with vector analysis, electrostatic fields and magnetic fields. The behaviour of time varying signals along transmission lines is investigated by considering appropriate applications.
Engineering Design & Ergonomics	PRJ60203	This module provides foundation in designing products that work in accordance with the way humans think, see and behave. Products that are compatible with people with dramatically reduce human error, fatigue, discomfort and stress and have a profound positive impact on overall end-user performance.
Engineering Design & Innovation	PRJ60403	This module equips engineering students with innovation techniques such as design thinking and TRIZ, sharpening their innovation skills. This will empower them to develop financially and economically sustainable solutions and enable.
Engineering Mathematics II	MTH60203	This module covers more essential mathematical knowledge and techniques for solving engineering problems.
Engineering Mathematics III	MTH60303	This module covers the mathematical modelling of engineering problems using differential equations and introduces various techniques for solving the problems.
Engineering Mathematics IV	MTH60403	This module covers the transformation of system representation between time and complex frequency domains and its analysis and solution. This module also covers basic statistics and probability theories and their applications.
Final Year Engineering Project 1	PRJ60703	This is an individual research project. Student selects a project from a given list. Project is awarded based on higher CGPA should more than one student select the same project. The pre-requisite for this module is that the student must be in the final two semesters of study (completed at least 95 credit hours), and has completed all the project based modules

Module	Code	Synopsis
		required from semester 1 to semester 6.
Final Year Engineering Project 2	PRJ60206	This is a continuation of the Final Year Engineering Project I (PRJ60703). Students continue their research work: collecting data, conducting experiments, or through whatever approach that has been decided upon in PRJ60703. The project concludes with a thesis, oral defense, EURECA conference and Engineering Fair.
Leading in the 21st Century	UCM60402U2	At the end of the programme, students will be able to avoid common leadership pitfalls by mastering relevant skills set such as decision-making, goal-setting, motivation, conflict management and teamwork.
Malaysian Food Heritage	UCM60102U3	This module will take the students through the historical event that brought changes to the culinary environment in Malaysia specifically to the ingredients availability, and the techniques used to prepare the food. The students will also have the opportunity to discuss about the impact of current issues such as shortage of food ingredients, improvement of technology that will change the authenticity of the food itself.
Malaysian Studies 3	MPU3173	Malaysian Studies encompasses the story of; early history of Malaya up to the formation of Malaysia, administrative system of Malaysia and Malaysian economic, social and foreign policies.
Managing Projects for Success	ENG60703	Ensuring projects run successfully has become very critical in today's fast changing world. The module will cover the knowledge areas and explore the key factors for completing projects on time within budget and allocated resources. Practical tools and techniques will be introduced to guide and manage projects to success
Multidisciplinary Engineering Design	PRJ60303	The main features of this module are the System Thinking, multidisciplinary and complexity level of the design encounter with focus on satisfying contradicting stakeholder's requirements and sustainability. While working in multidisciplinary teams students will create products and processes that are designed for manufacturability, affordability, recyclability and sustainability.

Module	Code	Synopsis
Power Electronics	EEE61403	This module deals with the principle of operation and characteristics of power switching devices and their applications in converter, inverter, chopper and cycloconverter circuits.
Power System Protection and Switchgear	EEE62503	To enhance understanding of power system protection and analyze the behavior and coordination of protection equipment when applied to various protection schemes in a power system network.
Signals and Systems	EEE60303	This module deals with signal analysis and the signal transmission through systems. It provides Laplace transform, Z-transform and probability mathematical background for signals and system analysis.
VLSI Design	EEE61603	To outline the VLSI design process and methodologies used in system implementation. To give working knowledge of Verilog.

Programme Structure – Bachelor of Engineering (Hons) Mechanical Engineering

No.	Module Title	Code	Prerequisite	Status	Credit Hours
Year 1					
Semester 2					
1.	Computer Aided Engineering and Geometric Modelling	ENG60603	None	Core	3
2.	Engineering Design & Ergonomics	PRJ60203	PRJ60103	Core	3
3.	Engineering Mathematics II	MTH60203	MTH60103	Core	3
4.	Malaysian Studies 3	MPU3173	None	MPU1	3
5.	Thermodynamics and Heat Transfer	ENG60303	None	Core	3
				Total Credits	15
Year 2					
Semester 3					
1.	Computing Applications for Engineers	ENG60104	None	Core	4
2.	Engineering Dynamics	ENG60403	None	Core	3
3.	Engineering Mathematics III	MTH60303	MTH60203	Core	3
4.	Leading in the 21st Century	UCM60402U2	None	MPU2	2
5.	Multidisciplinary Engineering Design	PRJ60303	PRJ60203	Core	3
6.	Properties and Applications of Materials	ENG60503	None	Core	3
				Total Credits	18
Semester 4					
1.	Engineering Design & Innovation	PRJ60403	PRJ60303	Core	3
2.	Engineering Mathematics IV	MTH60403	MTH60303	Core	3
3.	Engineering Solids Mechanics	MEC60103	ENG60103	Core	3
4.	Malaysian Food Heritage	UCM60102U3	None	MPU3	2
5.	Managing Projects for Success	ENG60703	None	Core	3
6.	Manufacturing Engineering	MEC60203	None	Core	3
				Total Credits	17

No.	Module Title	Code	Prerequisite	Status	Credit Hours
Year 3					
Semester 5					
1.	Community Service Initiative	UCM60102U4	None	MPU4	2
2.	Data Measurement, Analysis and Experimental Design	ENG61103	None	Core	3
3.	Introduction to Electronics and Electrical Power Machines	ENG60903	None	Core	3
4.	Mechanical Engineering Group Project I	PRJ60503	PRJ60403	Core	3
5.	Numerical Analysis for Engineers with Applications using ANSYS	ENG61203	None	Core	3
6.	Theory of Machines and Mechanisms	MEC60303	ENG60403	Core	3
				Total Credits	17
Semester 6					
1.	Automatic Control and Instrumentation	ENG61003	ENG60903	Core	3
2.	Business Skills for Engineers	BUS60403	None	Core	3
3.	Data Measurement, Analysis and Experimental Design	ENG61103	None	Core	3
4.	Mechanical Engineering Group Project II	PRJ60603	PRJ60503 ENG61203 (Co-requisite MEC60803)	Core	3
5.	Theory of Machines and Mechanisms	MEC60303	ENG60403	Core	3
				Total Credits	15

No.	Module Title	Code	Prerequisite	Status	Credit Hours
	Year 4				
	Semester 7				
1.	Automatic Control and Instrumentation	ENG61003	ENG60903	Core	3
2.	Electronics and Microprocessors	ENG61603	ENG60903	Core	3
3.	Final Year Engineering Project 1	PRJ60703	PRJ60603 Complete at least 95 credit hours	Core	3
4.	Mechanical Vibration	MEC60503	None	Core	3
	Choose Electives				
	Computational Fluid Dynamics (CFD)	MEC60703	None	Elective	3
	Engineering Economics	CHE61303	None	Elective	3
	Renewable and Alternative Energies	MEC61003	None	Elective	3
	Total Quality Management	ENG4413	None	Elective	3
				Total Credits	15
	Semester 8				
1.	Final Year Engineering Project 2	PRJ60206	PRJ60703	Core	6
2.	Professional Engineers & Society	ENG61503	None	Core	3
	Choose Electives				
	Computational Fluid Dynamics (CFD)	MEC60703	None	Elective	3
	Engineering Economics	CHE61303	None	Elective	3
	Renewable and Alternative Energies	MEC61003	None	Elective	3
	Total Quality Management	ENG4413	None	Elective	3
				Total Credits	15

Module Synopsis –Bachelor of Engineering (Hons) Mechanical Engineering

Module	Code	Synopsis
Automatic Control and Instrumentation	ENG61003	Overview of instrumentation system elements, control system basics, process controllers, correction elements, PLC systems, system models, transfer functions, system response, and frequency response.
Business Skills for Engineers	BUS60403	Covers the engineering and management and business environment, including the financial and legal aspects of doing business and E-Commerce.
Community Service Initiative	UCM60102U4	This module is to enable students to engage in the practice and theory of service learning, to familiarise with empowerment and social actions and to understand the role of education in a changing multi-ethnic society.
Computational Fluid Dynamics (CFD)	MEC60703	Present the essential concepts and skills for CFD using both a theoretical approach and practical approach using commercial software.
Computer Aided Engineering and Geometric Modelling	ENG60603	This module presents the processes of CAE from the conceptual design stage to the manufacturing stage via hands-on and virtual experience of component shape design.
Computing Applications for Engineers	ENG60104	Provides skills that promote the effective use of programming with MatLab and C Programming.
Data Measurement, Analysis and Experimental Design	ENG61103	This module introduces the statistical methodologies necessary to design and analyse a range of industrial experiments.
Electronics and Microprocessors	ENG61603	This module introduces the students to basic knowledge needed to work with microprocessors in a variety of situations.
Engineering Design & Ergonomics	PRJ60203	This module provides foundation in designing products that work in accordance with the way humans think, see and behave. Products that are compatible with people with dramatically reduce human error, fatigue, discomfort and stress and have a profound positive impact on overall end-user performance.

Module	Code	Synopsis
Engineering Design & Innovation	PRJ60403	This module equips engineering students with innovation techniques such as design thinking and TRIZ, sharpening their innovation skills. This will empower them to develop financially and economically sustainable solutions and enable.
Engineering Dynamics	ENG60403	This module builds upon the concepts and techniques used in Engineering Statics (ENG60103) and introduces the students to the scope of kinematics and kinetics. Newton's Laws of Motion will be introduced and developed to allow the student to deal with problems related to automotive and machine motion. The three dimensional nature of motion is considered and explored using simple vector concepts and basic calculus. The basic methods of force/acceleration, impulse/momentum and work/energy are developed and applied.
Engineering Economics	CHE61303	This module deals with principles and the basic equations for the value of money and alternative selections. It considers the factors in the engineering economy, interest rates, present worth, annual worth, rate of return, income tax and breakeven analysis.
Engineering Mathematics II	MTH60203	This module covers more essential mathematical knowledge and techniques for solving engineering problems.
Engineering Mathematics III	MTH60303	This module covers the mathematical modelling of engineering problems using differential equations and introduces various techniques for solving the problems.
Engineering Mathematics IV	MTH60403	This module covers the transformation of system representation between time and complex frequency domains and its analysis and solution. This module also covers basic statistics and probability theories and their applications.
Engineering Solids Mechanics	MEC60103	Overview of analysis of stress and strain in different structures together with plastic deformation and fracture mechanics.
Final Year Engineering Project 1	PRJ60703	This is an individual research project. Student selects a project from a given list. Project is awarded based on higher CGPA should more than one student select the same project. The pre-requisite for this module is that the student must be in the final two semesters of study (completed at least 95 credit hours), and has completed all the project based modules required from semester 1 to semester 6.
Final Year	PRJ60206	This is a continuation of the Final Year Engineering Project I

Module	Code	Synopsis
Engineering Project 2		(PRJ60703). Students continue their research work: collecting data, conducting experiments, or through whatever approach that has been decided upon in PRJ60703. The project concludes with a thesis, oral defense, EURECA conference and Engineering Fair.
Introduction to Electronics and Electrical Power Machines	ENG60903	The aim of this module is to introduce aspects of electronics and electrical engineering to students of other engineering disciplines in the context of applications in their discipline. This should develop their confidence when interacting with electrical engineers in industry. The module begins with a review of the areas where electronic and electrical engineering principles are applied in civil, chemical, manufacturing and mechanical engineering and materials science. An introduction to basic concepts of electronics leads into DC circuits and circuit analysis, power and energy. An appreciation of linear and non-linear components is provided through the diode and LED. Active learning in the lecture environment will be a key feature of this section. The concept of electrical transducers as a means of interfacing to, and monitoring, the real world leads to the simple application of operational amplifiers. Examples of uses of transducers and actuators in engineering industry will emphasise the importance of proper calibration. As an exercise students will specify a transducer for a particular application to achieve the appropriate range, gain and accuracy.
Leading in the 21st Century	UCM60402U2	At the end of the programme, students will be able to avoid common leadership pitfalls by mastering relevant skills set such as decision-making, goal-setting, motivation, conflict management and teamwork.
Malaysian Food Heritage	UCM60102U3	This module will take the students through the historical event that brought changes to the culinary environment in Malaysia specifically to the ingredients availability, and the techniques used to prepare the food. The students will also have the opportunity to discuss about the impact of current issues such as shortage of food ingredients, improvement of technology that will change the authenticity of the food itself.
Malaysian Studies 3	MPU3173	Malaysian Studies encompasses the story of; early history of Malaya up to the formation of Malaysia, administrative system of Malaysia and Malaysian economic, social and foreign policies.

Module	Code	Synopsis
Managing Projects for Success	ENG60703	Ensuring projects run successfully has become very critical in today's fast changing world. The module will cover the knowledge areas and explore the key factors for completing projects on time within budget and allocated resources. Practical tools and techniques will be introduced to guide and manage projects to success
Manufacturing Engineering	MEC60203	This module introduces the range of materials used in engineering applications along with some basic selection rules for determining the appropriate materials for a given application. The module also introduces fundamental science that determines the properties of materials, such as bonding types and atomic / molecular structures.
Mechanical Engineering Group Project I	PRJ60503	The students will work in teams to solve an engineering problem, analyse an engineering failure or build an engineering product. Student evaluation for this module is in two parts: group and individual (50:50). The individual component is assessed through student logbooks and individual reports, while the group effort (equal to all) is based on the artefact made.
Mechanical Engineering Group Project II	PRJ60603	The students will continue working in teams to solve a continuing engineering problem, analyse an engineering failure or build an engineering product. Student evaluation for this module is in two parts: group and individual (50:50). The individual component is assessed through student logbooks and individual reports, while the group effort (equal to all) is based on the artefact made.
Mechanical Vibration	MEC60503	Introduction to vibrations, degrees of freedom, harmonic response, general forced response, vibration suppression.
Multidisciplinary Engineering Design	PRJ60303	The main features of this module are the System Thinking, multidisciplinary and complexity level of the design encounter with focus on satisfying contradicting stakeholder's requirements and sustainability. While working in multidisciplinary teams students will create products and processes that are designed for manufacturability, affordability, recyclability and sustainability.

Module	Code	Synopsis
Numerical Analysis for Engineers with Applications using ANSYS	ENG61203	Present the numerical methods and introduce the use of ANSYS to understand a range of issues that are related to how does numerical commercial packages operate.
Professional Engineers & Society	ENG61503	To study the various roles and responsibilities of an Engineer in society, also highlighting the moral and ethical responsibilities of Professional Engineers as well as the role of Engineering as a profession in improving the quality of life and addressing societies Grand Challenges.
Properties and Applications of Materials	ENG60503	This module introduces the range of materials used in engineering applications along with some basic selection rules for determining the appropriate materials for a given application. The module also introduces fundamental science that determines the properties of materials, such as bonding types and atomic / molecular structures.
Renewable and Alternative Energies	MEC61003	Renewable energies, solar energy, bioenergy, hydroelectricity, tidal power, wave energy, wind energy, geothermal energy, integration.
Theory of Machines and Mechanisms	MEC60303	Provide a range of skills related to mechanics of machines like degrees of freedom, and the design and analysis of important mechanism such as slider crank, four bar mechanism, cams.
Thermodynamics and Heat Transfer	ENG60303	This module combines the knowledge related to both energy transfer (as heat) and thermodynamics to expose the students to a wide variety of topics that will be instrumental in their academic and career advancement like the applications of the first and second laws of thermodynamics and the mechanisms with which heat transfers. This is tied closely to the analysis of heat engines, heat pumps, heat cycles and heat exchangers.
Total Quality Management	ENG4413	This module comprises three interlinked modules fundamentals of TQM, methods of TQM and process management and improvement - and provides an integrated approach to this increasingly important business strategy.

TAYLOR'S BUSINESS SCHOOL

Programme Structure - Bachelor of Business (International Business)

No.	Module Title	Code	Prerequisites	Status	Credit Hours
Year 1					
Semester 1					
1.	Business Communication	COM60104	None	Core	4
2.	Introduction to Accounting	ACC60104	None	Core	4
3.	Introduction to Management	MGT60104	None	Core	4
4.	Microeconomics	ECN60104	None	Core	4
5.	Quantitative Methods for Business	STA60104	None	Core	4
				Total Credits	20
Semester 2					
1.	Introduction to Finance	ECN60204	None	Core	4
2.	Macroeconomics	FIN60104	ECN60104	Core	4
3.	Organisational Behaviour	OBM60104	None	Core	4
4.	Principles of Marketing	MKT60104	MGT60104	Core	4
				Total Credits	16
Year 2					
Semester 3					
1.	Business Law	LAW60104	None	Core	4
2.	Elective Yr 2			Elective	4
3.	Human Resource Management	HRM60104	None	Core	4
4.	Introduction to International Business	BUS60104	None	Core	4
				Total Credits	16
Semester 4					
1.	Elective Yr 2	COM61104		Elective	4
2.	Export Practices and Management	EVT60203	BUS60104	Specialisation	4
3.	International Finance	PRL60404	None	Specialisation	4
4.	Research Methods	EVT60403	None	Specialisation	5
5.	Supply Chain Management	EVT60303	None	Specialisation	4
				Total Credits	20

No.	Module Title	Code	Prerequisites	Status	Credit Hours
Year 3					
Semester 5					
1.	Business Ethics and Values	BUS60204	None	Core	4
2.	Elective Yr 3			Elective	4
3.	Elective Yr 3			Elective	4
4.	Transnational Management	MGT60604	BUS60104	Specialis ation	4
				Total Credits	16
Semester 6					
1.	Elective Yr 3				4
2.	Elective Yr 3				4
3.	International Business Issues and Policies	BUS60404	BUS60404	BUS6040 4	4
4.	Strategic Management	MGT60504	MGT60504	MGT605 04	5
				Total Credits	16
Electives For The Programme					
1.	Entrepreneurship and Small Business	BUS60304	None	Elective	4
2.	Intercultural Communication for Business	COM60204	None	Elective	4
3.	International Human Resource Management	HRM60804	None	Elective	4
4.	International Marketing	MKT60704	MKT60104	Elective	4
5.	International Trade and Multinational Business	ECN60404	None	Elective	4
6.	Management Accounting	ACC60404	ACC60104	Elective	4
7.	Organisational Studies	OBM60204	OBM60104	Elective	4
8.	Production and Operation Management	MGT60204	None	Elective	4

Module Synopsis - Bachelor of Business (International Business)

Module	Code	Synopsis
Business Communication	MGT60104	Business Communication equips students with the necessary written and spoken skills for effective business communication. Students are exposed to various business correspondences and taught practical strategies to write convincing messages. Students are also taught to strategise, and to use appropriate and ethical approaches in writing not only routine messages, but also persuasive and negative messages. Listening and speaking skills are also focused on to ensure effective interpersonal communication This module also emphasis the need for business communication to be seen in a global context where various considerations such as technological advances and ethical considerations play a vital role in ensuring that all business messages achieve their aims in a positive manner.
Business Ethics and Values	BUS60204	This module provides an understanding of the ethical issues and dilemmas affecting managers in organisations and developing an appreciation for, professional responsibility and integrity. It aims to raise awareness of the practical issues facing people in business, introduce a framework or guidelines for analysis and decision making, and enhance students' ability in reasoning towards resolving the dilemmas based on ethical principles. The discussions of ethical issues are used as an avenue for further improvement in analytical and communication skills.
Business Law	LAW 60104	NA
Entrepreneurship and Small Business	BUS60304	This course is for students who wish to learn the principles and processes of small business and entrepreneurship. It is designed for individuals interested in starting a new business venture, acquiring an existing business, or working in industries that serve entrepreneurs. The course provides an overview of the many principles and processes of entrepreneurship and small business management.
Export Practices and Management	MGT60304	There are new opportunities & challenges arising in global marketing and exporting. In order for any organisation to take advantage of the opportunities present as well as to rise above the challenges faced, it has to be adaptable to

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		changes. Opportunities are expanding as international trade continues to grow rapidly. The role of ecommerce is to enable even the smallest business to find potential customers and means of distribution across the globe. The challenges of it would be increased competition, disruptions of trade flows (military), natural disasters etc.
Human Resource Management	HRM60104	This module helps students develop an understanding of the fundamentals of human resource management. It explores the central, strategic role that human resource plays in making organisations more competitive. Students will be exposed to the human resource concepts, functions and practices including recruitment and selection, training and development, compensation and benefits, performance management, employee rights, health and safety, industrial relations and trade unions.
Intercultural Communication for Business	COM60204	This module introduces students to the role of cultural patterns, and cultural profiles of nations in different parts of the world. At the end of the module, students will be able to increase their understanding of the relationship between culture and communication from various cultural backgrounds. They will be able to identify and analyse the role of cultural patterns and obstacles to competent intercultural collaboration in the development of intercultural group working relationships, thus making business deals easier and avoiding costly misunderstandings.
International Business Issues and Policies	BUS60404	The international business issues and policy is the capstone module for the International Business major. In this module, we will examine both the principles associated with the formation and implementation of business strategy, as well as the latest research about business strategy, which challenges traditional ways of thinking. We will apply those ideas via case studies and simulations. Globalisation means that almost every company is affected by competition from foreign enterprises. Many firms are seeking opportunities to enter new foreign markets and expand in ones they already have penetrated. Managing in a globalizing environment requires knowledge of the regulatory and policy systems of international trade. This module provides this essential knowledge explaining both the theoretical and practical dimensions. The broad aim is to

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		provide insight into current issues that play a dramatic role in the business landscape and to understand the current challenges facing businesses as constituents in the broader societal context. In addition students will be familiar with the strategic and management issues currently faced by various organisations through a consideration of the structure and challenges of the industry at the global, national and provincial levels.
International Finance	FIN61104	This module introduces main concepts and methods associated with international financial decision-making for multinational business: the concept of multinational financial management, FOREX, risk analysis and tools, financing foreign trade, international portfolio investment and corporate strategy.
International Human Resource Management	HRM60804	Human resource management issues play a significant role in strategy and decision making- whether a company is considering its international presence, transitioning to a global entity or acquiring new business lines. Students will examine the critical role that HRM plays in the competitive and collaborative world of international business. The course topics include strategic HRM in multinational companies, international staffing, managing expatriate, international compensation, careers and repatriation, issues in the management of industrial relations in international firms, contemporary and emerging issues in international human resource management.
International Human Resource Management	HRM60804	Human resource management issues play a significant role in strategy and decision making- whether a company is considering its international presence, transitioning to a global entity or acquiring new business lines. Students will examine the critical role that HRM plays in the competitive and collaborative world of international business. The module topics include strategic HRM in multinational companies, international staffing, managing expatriate, international compensation, careers and repatriation, issues in the management of industrial relations in international firms, contemporary and emerging issues in international human resource management.
International Marketing	MKT60704	This module is designed to introduce students to advanced marketing concepts and practices in a global

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		business environment. A comprehensive overview of the dynamics and trends in international marketing include market analysis, strategic planning, market selection and entry strategies, product positioning, integrated marketing communications, distribution, and pricing. Special emphasis will be placed on the development and delivery of international marketing plan where students have the opportunity working with a Malaysian firm. The module addresses the skills necessary for evaluating, developing, and delivering marketing programmes for a global and multicultural audience.
International Trade and Multinational Business	ECN60404	In an ever progressing and changing business environment; trade, finance and investment play a crucial and significant role in the world economy. This module concentrates on the introduction of the key theories explaining international trade, finance and investment. Framework of this module will give importance to expose learners with to the fundamental concepts of international trade, finance and investment and tools that are essential for them to understand and analyse the operation of international currency markets and the different types of exchange rate regimes. It complements other Level Two Economics/Finance modules and provides a basis for Level Three Economics/Finance modules.
Introduction to Accounting	ACC60104	This module is an introduction to the technical aspects of financial accounting, as well as to the financial community. As a member of the financial community you will be expected to be updated on current business and financial events. Now is a good time to start a regular habit of reading the accounting and financial press.
Introduction to Finance	FIN60104	This module introduces main concepts and methods associated with financial decision-making for individuals and enterprises: the concept of cash flow valuation, evaluation of financial performance, valuation of securities, risk and returns, capital budgeting, and an overview of international finance.
Introduction to International Business	BUS60104	The module is designed to provide students with an insight into International Business. It covers a practical framework for understanding the key issues, current relevant principles and concepts to be considered in

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		doing business abroad. The goal of the module is to help students to understand the basic principles of international business and their impact on the world's economy. International Business introduces students to various issues and challenges associated with the formulation and implementation of strategies in business organisations whose operations stretch across national borders. Throughout the module, students will be systematically introduced to the complexities and challenges of leading and managing a "global" company. Further, the module will provide students with an opportunity to integrate business decisions with the ethical and social responsibility considerations inherent to playing on a global field.
Introduction to Management	MGT60104	This module is designed to provide the candidate with the basic concepts and principles of management in organisations. It focuses on the context of managerial activity and covers the four major functions of management i.e. planning, organising, leading and controlling and places them in a historical, political and economic context.
Macroeconomics	ECN60204	In an increasingly globalised world, countries and their governments need to be able to make quick, well informed and correct decisions in order to achieve their macroeconomic objectives. This module looks into the workings of a domestic economy and the policies that governments may implement to improve the business environment. The module outlines the various macroeconomic tools of analysis and analytical frameworks that are essential for business students to learn and understand to enable them to comprehend the national and global economy in a structured way. It complements other Year One business modules and provides a basis for Year Two and Three modules in both business and economics.
Management Accounting	ACC60404	This module is an introduction to the basic techniques of management accounting and its role in the manufacturing and service business environments. Management accounting techniques are applied in all organisations. Students learn that with the current competitive business environment, good application of costing system would help organisations to compete.

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Microeconomics	ECN60104	In a continuously ever changing globalised business environment, businesses need to make quick, well informed and correct decisions in order to survive. This module is concerned about the principles of microeconomics as they apply to the business environment. The module outlines the various microeconomic tools of analysis and analytical frameworks that are essential for business students to learn and understand to enable them to comprehend the economic environment of business in a structured way. It complements other Year One business modules and provides a basis for Year Two and Three modules in both business and economics.
Organizational Behaviour	OBM60104	This module is designed to provide the candidate with an introduction to psychological and behavioural approaches to the study of work and organisations. The module introduces some of the basic analytical tools and concepts from the fields of organisational behaviour and work psychology that encourage an understanding of the behaviour of individuals and groups in the workplace.
Organizational Studies	OBM60204	This module is designed to provide the candidate with the capacity to analyse an organisation from a multiple perspective framework that involves 'reading' the organisations and interpreting organisational situations from these different perspectives so as to understand better how the organisation functions.
Principles of Marketing	KT60104	This module introduces students to the key marketing concepts and strategies employed by marketers in facing the challenges in a dynamic business environment. It develops an understanding of the overall process of planning, implementation and control in the contemporary business environment. This module provides students with the needed conceptual skills to identify, analyse and solve marketing problems. This module also provides a foundation for those who intend to further study in the marketing field or other business related modules.
Production and Operation Management	MGT60204	This subject details the management perspective on the production and operations function in a business. It provides a strong review of the important concepts which underpins the POM task, and sets the relevant issues and

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		techniques within the broader context of the management and control of the whole business. Contemporary topics on global competition, quality management, customer service and JIT, their influences are discussed.
Quantative Methods for Business	STA60104	This module is designed to provide students with an appreciation of the application of analytical tools to business decision contexts. It also develops students' abilities to access and critically interpret statistics and business information. The module places strong emphasis on developing a clear theoretical understanding of various analytical tools. This is particularly true in business where learning to deal with randomness, variation and uncertainty is a vital skill for anyone intending to apply their knowledge in any employment. Students will also gain an introduction to many of the quantitative techniques which will be used throughout their further studies in their chosen discipline.
Research Methods	RES60104	This module examines research designs commonly used in business decision making. Topics include research design, implementation and finally interpretation of research as these are related to problems in an organisational setting. This module will also cover issues on access and research ethics. This module provides a guide to the research process and the needed knowledge and skills to undertake research as well as highlights some common research pitfalls. At the end of this module, students will learn a range of research approaches, strategies and methods in handling their research projects. Skill development in statistical applications software is also one of the objectives of this module. Students are required to submit a research proposal as part of the module requirements.
Strategic Management	MGT60504	This module is designed to provide the candidate with a comprehensive understanding on how organisations are managed strategically with the emphasis of putting theory into practice. The major areas in strategic management that includes strategy formulation, implementation and evaluation are taught together with appropriate case analysis.

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Supply Chain Management	MGT60404	Supply Chain (SC) is a network of business entities consisting of suppliers' suppliers, suppliers, customers and customers' customers. Supply chain management deals with the management of material flows, information flows and financial flows that cut across multiple business entities (companies). The co-ordination and integration of these flows both within and across companies are critical to compete successfully in today's market place. Companies have always acknowledged the fact that the integration and co-ordination among multiple functional areas will create competitive advantages. Having said that one might ask "What is so new about SCM?". The answer lies in the dimension, viz., extended enterprise integration (coordination). As companies become more global and the competitive pressures are more intense, companies must think beyond functional integration and need to think for integration and co-ordination at extended enterprise level. An increasing number of Fortune 500 companies such as Chrysler, Hewlett Packard, IBM, P&G, Unilever, and Xerox have been stressing importance of SCM and are leveraging advances in IT and opportunities to form strategic alliances to tightly integrate their supply chain. Considering these developments in business environment, this module aims to introduce you to the field of SCM.
Transnational Management	MGT60604	This module focuses on management's challenge associated with developing strategies, designing organisations and managing operations of companies whose activities stretch across national boundaries. Operating in an international arena will provide various opportunities for the company. This is because having worldwide operations not only gives a company access to new markets and specialized resources but it also opens up new sources of information as well as knowledge and broadens the options of strategic moves the company might make in competing with its domestic and international rivals. Like any other opportunities provided by cross-border management, companies will still have to face the challenges of managing strategy, organisation and operations that are innately complex diverse and uncertain. In this module a conceptual baseline would provide for a more detailed discussion of the various issues faced in the cases presented. Some typical

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		attitudes and mentalities would normally shape the actions of managers in MNCs (Multi-National Companies) and suggest how these attitudes and mentalities evolve as their off-shore operations progress from the state of initial investments to a fully integrated worldwide network of affiliates.

SCHOOL OF HOSPITALITY, TOURISM AND CULINARY ARTS

- Please use this form as Module Registration Form.
- This is applicable to:
    1. Bachelor of Culinary Arts & Food Service Management (Hons)
    2. Bachelor of International Tourism Management (Event Management)(Hons)
    3. Bachelor of International Hospitality Management (Hons)
    4. Bachelor of International Tourism Management (Travel & Recreation Management)(Hons)
    5. BSc Culinology

IMPORTANT NOTE:

1- Applicants must register for a semester exchange in a Bachelor Degree similar to their current one

2- Modules offered are suitable for students having completed at least three semesters of their bachelor degree

3- Applicants should select between 5 and 7 modules. The total number of credit must be above 12 credits and below 20 Credits (1 Cr= 1.5 ECTS)

4- The "Recommended Modules" shows the block of modules offered for semester-exchange students

5- Applicants can replace one or two modules from the recommended block modules list below. However, it is subject to availability at the beginning of the semester

Bachelor of Culinary Arts & Foodservice Management (Hons)
MODULE REGISTRATION

Recommended Modules block for BC (take at least 5)				
Module Code	**Module Title**	**Total SLT**	**Credits**	Tick
CUL60303	Foodservice Project Planning & Engineering	120	3.0	
ECN60103	Tourism Economics	120	3.0	
FIN60103	Financial Management	120	3.0	
FRE60202	French 2 -Intermediate	80	2.0	
CUL60202	Food Supply Chain Management	80	2.0	
CUL60402	Nutritional and Sensorial Analysis	80	2.0	
COM60202	Professional Food Writing	80	2.0	

Alternate Modules (take between 0 and 2)				
Module Code	**Module Title**	**Total SLT**	**Credits**	tick
LAW60103	Tourism & Hospitality Law	120	3.0	
RES60102	Research Methodology	80	2.0	
FRE60102	French 1 -Basic	80	2.0	
CUL60302	Psycho Sociology of Food and Eating Habits	80	2.0	
CUL60103	Kitchen Operations 3 (Asian Cuisine)	120	3.0	

Applicant Name and Signature	Date:
Approval from Home Institution	Date:
FOR OFFICE USE ONLY	
Verified By (GLOBAL MOBILITY OFFICE)	Date:
Approved By School of Hospitality, Tourism and Culinary Arts	Date:

Final Module offered is subject to availability.

Bachelor of International Hospitality Management (Hons)
MODULE REGISTRATION

Recommended Modules Block for BH (take at least 5)

Module Code	Module Title	Total SLT	Credits	Tick
HRM60103	Hospitality Human Resource Management	120	3.0	
ECN60103	Tourism Economics	120	3.0	
MGT60202	Revenue Management	80	2.0	
FRE60202	French 2 -Intermediate	80	2.0	
BUS60103	Entrepreneurship for Hospitality	120	3.0	
REC60203	Recreational Management Applications: Resort Management	120	3.0	

Alternate Modules (take between 0 and 2)

Module Code	Module Title	Total SLT	Credits	tick
LAW60103	Tourism & Hospitality Law	120	3	
FRE60102	French 1 -Basic	80	2	
MKT60203	Integrated Marketing Communication	120	3	
ACC60203	Management Accounting	120	3	
HOS60602	Hospitality Simulation	80	2.0	

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Final Module offered is subject to availability.

Bachelor of International Tourism Management (Event Management) (Hons)
MODULE REGISTRATION

Recommended Modules Block for BE (take at least 5)

Module Code	Module Title	Total SLT	Credits	Tick
HRM60103	Hospitality Human Resources Management	120	3.0	
MKT60203	Integrated Marketing Communications	120	3.0	
FIN60103	Financial Management	120	3.0	
FRE60202	French 2 -Intermediate	80	2.0	
EVT60603	Special Events & Festivals	120	3.0	
EVT60703	Live Event Project	120	3.0	

Alternate Modules (take between 0 and 2)

Module Code	Module Title	Total SLT	Credits	tick
LAW60103	Tourism & Hospitality Law	120	3.0	
RES60102	Research Methodology	80	2.0	
FRE60102	French 1 -Basic	80	2.0	
MGT60202	Revenue Management	80	2.0	

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Final Module offered is subject to availability

Bachelor of International Tourism Management
(Travel & Recreation Management) (Hons)
MODULE REGISTRATION

Recommended Modules for BR (take at least 5)

Module Code	Module Title	Total SLT	Credits	Tick
HRM60103	Hospitality Human Resources Management	120	3.0	
ECN60103	Tourism Economics	120	3.0	
FIN60103	Financial Management	120	3.0	
FRE60202	French 2 -Intermediate	80	2.0	
REC60403	Recreational Management Applications: Spa Management	120	3.0	
TOU60402	Tourism Marketing	80	2.0	

Alternate Modules (take between 0 and 2)

Module Code	Module Title	Total SLT	Credits	tick
LAW60103	Tourism & Hospitality Law	120	3.0	
FRE60102	French 1 -Basic	80	2.0	
RES60102	Research Methodology	80	2.0	
TOU60703	Socio-anthropology of Tourism	120	3.0	
TOU60502	Sustainable Tourism Development	80	2.0	

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Final module offered is subject to availability.

BSc Culinology®
MODULE REGISTRATION

Module Code	Module Title	Total SLT	Credits	Tick
FSC60203	Sensorial Analysis	120	3	
FSC60504	Food Processing	160	4	
CUL60703	Psycho-Sociology of Food & Eating Habits	120	3	
CUL60503	Experimental Food Products & Practices	120	3	

Optional Module (take between 0 and 1)

Module Code	Module Title	Total SLT	Credits	Tick
RES60102	Research Methodology	80	2	
NUT 60204	Introduction to Human Nutrition	160	4	
FBC60104	Manufacturing & Packaging	160	4	
FSC60403	Food Safety & Quality management	120	3	

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Final module offered is subject to availability.