LIST OF COURSES OFFERED FOR INBOUND E-MOBILITY

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UMS
UNIVERSITI MALAYSIA SABAH

LIST OF COURSES OFFERED FOR INBOUND E-MOBILITY (MARCH 2022)

FACULTY OF SCIENCE AND NATURAL RESOURCES

UH6545002- INDUSTRIAL CHEMISTRY					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	SK13603	Prinsip Kimia Analisis	This course focuses on the basic procedures and practices in an analytical laboratory and chemical analyses, data handling, presentation and analysis, laboratory quality assurance, chemical and solubility equilibria, and principles and techniques of volumetric and gravimetric analyses.	3	1/2
2	SK13803	Inorganic Chemistry	The course discusses the fundamental concepts and principles of inorganic chemistry at a basic level with electronic configuration of atoms of elements and molecules; theories of chemical bonding and intermolecular forces, Lewis structure and VSEPR model, main group elements, features and trends in chemistry of s and p block elements, nuclear chemistry and radioactivity.	3	1/2
3	SK23203	Material Chemistry	Fundamental chemical and physical principles underlying crystallography, electronic, dielectric, optical and magnetic properties will be developed in the context of metals, ceramics, glass and polymers. The course will treat another aspect of the structure, properties and applications of nanomaterials. Theory and concepts of nanomaterials will be covered, including the chemistry and physics of nanomaterials. The course will also focus on major classes of nanomaterials, including carbon nanotubes, nanostructured materials, nanowires, nanoparticles, nanoclays, and other nanomaterials. Applications of nanomaterials to technology areas of interest to the class will also be discussed.	3	2/2
4	SK34003	Advanced Inorganic Materials	This course focuses on the understanding of the concept of Cradle to Grave and sustainability in the procurement, manufacturing and application of advanced materials in industrial processes and products. Emphasis is given to the Material Resources, Productivity and the Environmental cost of selected high value commercial product.	3	3/2

UH6461001- MATHEMATICS WITH ECONOMICS					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	ST00702	Computer programming and simulation	Introduction of the basic concepts of computer languages mainly in C programming styles to be used in problem solving and preparation for students in understanding of the programming skills for supporting the needs of other courses especially in SM20402 and SM30302.	2	1/1
2	ST00803	Statistical Programming Package	A clear understanding of the concepts and practical of statistical programming package will help students to become more familiar with the nature of analyzing data in statistics.	3	2/1
UH6461002- MATHEMATICS WITH COMPUTER GRAPHICS					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	SV10603	Discrete Mathematics	The purpose of this course is to teach students how to think mathematically by learning a particular set of mathematical facts and how to apply them. To achieve these goals, some important fields are covered: logic and proofs, basic structures: sets, functions, sequences and sums, the fundamentals: algorithms, the integers and matrices, induction and recursion, discrete and probability, relation, graph theory, Boolean algebra and modeling computation.	3	1/2
2	SV20403	Data Structure	A variety of algorithmic techniques will be introduced in this course and students will gain an appreciation of the use and importance of data structures. A range of well-established data structures will be examined, and their properties are described so that it becomes clear which representations are appropriate under which circumstances. In addition to gaining a conceptual understanding of how data can be organized, a much more efficient common data processing tasks such as sorting and searching strategies will also be presented.	3	2/2
UH6422001- ENVIRONMENTAL SCIENCE					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	SS21802	Meteorology an Climate Change	This course covers the fundamentals of meteorology that includes atmospheric processes, weather and climate. Overview of current weather maps; structure of the atmosphere and the role of moisture in the development of dew, clouds, and precipitation; air masses, fronts, and cyclones, Elements of weather forecasting, instrumentation and communication are also explored. Major climatic controls; climatic classifications and comparisons of major climatic types; an overview of current climate issues such as global warming and El Nino; overview of the global climate are also discussed	2	2/2

UH6443002- GEOLOGY					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	ST01502	Earth Sciences	This module is an important course as basic knowledge in earth science. This module cover about the earth; its composition, structure and dynamics. It also provides students with the basic knowledge and explain geomorphology features of the earth resulted from the geomorphological processes. The understanding of the way the earth works is based on the scientific method that requires the interpretations to be consistent with the fundamental laws of the creation. It includes evidence of rocks that formed mountains, rock types that formed the layers of earth lithosphere, minerals and rock forming minerals, crystals and their forms. This course also include the study of earth crustal forms that can be observed at the surface of the earth today (folds, faults, fractures, etc.) and the processes that form them (tectonic, volcanism, earthquakes, sedimentation, etc.). This course also discusses how earth works globally - the building blocks of earth; earth's dynamic interior; igneous activity, plate tectonics, and mountain building. Towards the end of the course, introduction to economic resources of the earth are given	2	Every Semester 1 and 2
2	SG23602	Malaysian Geology and Regional Geology	This course discusses the stratigraphy, structure and geological history of peninsular Malaysia, Sarawak and Sabah. It also gives an introduction to the regional geology of the area, specifically the Southeast Asian region. The relationship between the earth's economic resources (ores, petroleum and gas) and the tectonics of the region is also covered. An understanding of the tectonic framework of SEA and the basic rock units/formations and geological structures of Malaysia can aid in the better understanding of the geological evolution of Malaysia.	2	2/2
UH6545001- BIOTECHNOLOGY					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	SY12403	Biochemistry	The course is important to the students in terms of understanding the concepts and principles of biomolecules and the application of chemistry to the study of biological processes at the cellular and molecular levels.	3	1/2
2	SY32403	Natural Product Biotechnology	This module provides students with the knowledge and understanding of natural product and their relevance in biotechnology applications	2	3/2

LIST OF COURSES OFFERED FOR INBOUND E-MOBILITY (MARCH 2022)

FACULTY OF SUSTAINABLE AGRICULTURE (SANDAKAN CAMPUS)

UH6621001-CROP PRODUCTION					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	RC10303	PRINCIPLES OF SUSTAINABLE AGRICULTURE	This course introduces the principle of sustainable agriculture, which emphasizes crop and livestock productions, and food systems that are profitable, environmentally sound and energy efficient that can improve the quality of life for both farmers and the public. Students will be taught on the impact of conventional agricultural practices towards natural ecosystem services and how to incorporate crucial functions of biodiversity for sustainable farming. Scientific understanding about what constitutes sustainability in environmental, social, and economic terms is continuously evolving and is influenced by current contemporary issues, perspectives, and values will also be explained.	3	Year 1, Sem. 1
2	RT30302	EXPERIMENTAL DESIGN AND ANALYSIS	Students will learn concepts, principles and methods or steps in setting up an agricultural experiment. Students will also learn statistical analysis based on the experimental design used. The experimental designs include Completely Randomized, Randomized Complete Block, Latin Square and Split Plot Designs, as well as factorial experiments. Suitable ways and methods of analyzing data for these experimental designs will also be taught.	2	Year 3, Sem. 1
3	RT40402	ISSUES AND CURRENT DEVELOPMENTS IN AGRICULTURE	This is a seminar course on current global, regional or local issues and development in agriculture which will be presented by policy makers, representatives of Government implementing agencies, industries, financial institutions as well as from experts, renowned researchers and academics.	2	Year 4, Sem.1
UH6621002-HORTICULTURE & LANDSCAPING					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	RT10402	INTRODUCTION TO AGRICULTURE	The course introduces students to the importance of agriculture to mankind, history and development of agriculture, current issues and challenges in agriculture ranging from environment, food security and needs, food safety, to biotechnology and genetically modified organisms. Shifts in Malaysian agriculture policies, objectives and strategies over several decades since independence will be highlighted. Sustainable agriculture and management practices which are widely accepted and adopted by farmers and nations around the world will be introduced. Prospects and opportunities in the agriculture sector will also be discussed.	2	Year 1, Sem. 1

UH6622001-LIVESTOCK PRODUCTION					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	RT30302	EXPERIMENTAL DESIGN AND ANALYSIS	Students will learn concepts, principles and methods or steps in setting up an agricultural experiment. Students will also learn statistical analysis based on the experimental design used. The experimental designs include Completely Randomized, Randomized Complete Block, Latin Square and Split Plot Designs, as well as factorial experiments. Suitable ways and methods of analyzing data for these experimental designs will also be taught.	2	Year 3, Sem. 1
2	RT40402	ISSUES AND CURRENT DEVELOPMENTS IN AGRICULTURE	This is a seminar course on current global, regional or local issues and development in agriculture which will be presented by policy makers, representatives of Government implementing agencies, industries, financial institutions as well as from experts, renowned researchers and academics.	2	Year 4, Sem.1

IST OF COURSES OFFERED FOR INBOUND E-MOBILITY (MARCH 2022)
FACULTY OF SOCIAL SCIENCES AND HUMANITIES

PROGRAMME : COMMUNICATION [UH6321001]

NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	AK10303	MEDIA, CULTURE & SOCIETY	This course discusses the structure and content of the media as well as what impacts it has the individuals, organisations, society, and culture. It also examines the social, economic, and political aspects of the media which impinge on its processes, structures, and contents. Students will also be introduced to the mass media and media practices within and outside Malaysia including their roles and modus operandi. Students are encouraged, through tutorials and presentations, to discuss media freedom and the social responsibilities of the journalists and the media they are affiliated to.	3	1/2
2	AK31403	GOVERNMENT PUBLIC RELATIONS	Government Public Relations examines the practice of public diplomacy and the role of communication in sustaining political power. Students are introduced to a range of strategies deployed by government agencies in building their image and winning public support towards the implementation of nation-building policies and projects such as 1Malaysia, New Development Policy, New Economic Model, Education Policy, Malaysian Developmental Plans etc. The role of the Ministry of Information, Communication and, Culture and its related agencies are explored in this subject. Students are informed of the role of change agents, opinion leaders and, interpersonal elements in the process of implementing state-designed change projects. The role of new media technology, such as mobile, satellite and, the Internet, is explored.	3	3/2
3	AK31203	CORPORATE PUBLIC RELATIONS	The course aims to expose students to the needs of corporate public relations to organizations. The course will discuss how the elements of internal and external communication affect the practice of corporate public relations. The implication of technology to the practice of corporate public relations particularly in managing communication crisis, corporate social responsibility as well as	3	3/2

			pressure from activism will be discussed as well.		
4	AK20603	COMMUNICATION RESEARCH METHOD	The aim of this course is to equip students with the knowledge and skills in undertaking qualitative and quantitative methods research in communication studies. The course is expected to enhance the ability of the students to identify research problems, conduct literature reviews, use appropriate research methods, undertake data analysis, compile a bibliography, comprehend the importance of ethical responsibilities and present its findings. Students will be given opportunities to design and implement research projects, analyze data, and report results in a scholarly research format.	3	2/2
5	AK30803	COMPARATIVE JOURNALISM	This course is the sociology of news and journalism for majoring students. Due to the complex and multi-disciplinary nature of this course, this course is designed to expose students to various journalism models and make the comparison in terms of practice and principles. Students are also exposed to the Western journalism practice due to the Libertarian press system in comparison to Asian journalistic practice based on the Asian development media system.	3	3/2
6	AK20203	COMMUNICATION LAW & ETHICS	This course aim is to introduce communication laws and ethics to the student. This includes analyses of the communication legal and ethical issues with respect to the media industry in the Malaysian context. The course will discuss the legal system in Malaysia particularly in regards to laws that regulate the media, and journalism ethics in Malaysia. Since there is decision-making with public interest nowadays seen takes place outside of formal legal structures, the course includes within its purview: principles that should or do underlie laws and regulations, awareness for existing and new laws and regulations, and the debates over press freedom practices through which policy is implemented.	3	2/2

PROGRAMME : INDUSTRIAL RELATIONS [UH6347001]					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	AH31503	DEMOCRACY AND EMPLOYEE PARTICIPATION	The aim of this course is to introduce the basic concept of industrial democracy and employee participation. Industrial democracy is not new field of study but it has been gone through an evolution since the 17 century. Today, it has been discussed under many titles such as employee participation, employee involvement, high workplace performance, and employee empowerment. The key issue in this course is to explain the role of industrial democracy and employee participation concepts in relations to the workplace performance and employee voice in key decisions at the workplace. This course is also discussing many case studies that practiced in the company and workplace.	3	3/2
2	AH32003	INNOVATIONS & WORKING ENVIRONMENT	This course focuses on the integration among creativity, innovation, and organizational change. Nowadays relevant issues related to workers and innovation development are vital. The organizational implications of these developments affect the working environment and workers' affairs alike. This course also covers innovative applications in various domains, with respect to industrial relations.	3	3/2
3	AH30203	EMPLOYMENT AND WORKFORCE ISSUES	This course covers the interdisciplinary aspects, which includes assumptions and views from various disciplines: political and economic, sociology, management, trade unionist, the State as well as employees. This course will discuss contemporary employment issues occurring around the globe particularly in Malaysia. It will also cover contemporary topics on minimum retirement age, minimum wages, work-life balance policy in organizations as well as other contemporary labour issues. Thus, how far the development and the changing pattern of employment relations and workforces affect workers and workplaces in Malaysia will also be discussed accordingly. Topics given are based on the current/contemporary labour/employment issues.	3	3/2

PROGRAMME : SOCIOLOGY AND SOCIAL ANTHROPOLOGY [UH6312001]					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	AA21103	CULTURE AND SOCIETY	This course discusses human similarities and diversity from the anthropological perspective. Culture is defined as the way of life that is shared by members of a community. This course discusses the following, to look at the various cultural characteristics of communities and to understand this from anthropological perspectives.	3	2/2
2	AA10603	RELIGION AND SOCIETY	This course introduces students to the role of religion in society. Theories on the origin of religion by Tylor, Durkheim and Malinowski, and theories on the function of religion by Radcliffe-Brown, Kluckhorn and Geertz are discussed. In order to also understand the role of religion in society, aspects of religion as a group phenomenon, its relation to conflict and social organization, political life, economics, class systems, and also to the position and status of women, as well as change are discussed. In the context of culture, religion as systems of meanings, rituals, myths, shamanism, and worship are debated.	3	1/2
3	AA30803	HUMAN ECOLOGY	This course introduces students to another major sub-discipline of Anthropology which specifically focuses on the interaction between humans and their environment. There are two main areas of study in Human Ecology: Human Biological Ecology which focuses on human biological adaptations to the environment, and Cultural Ecology where cultural adaptations are the main discussion. This course will emphasize Cultural Ecology.	3	3/2

PROGRAMME : INTERNATIONAL RELATIONS [UH6313001]					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	AS10203	INTERNATIONAL POLITICAL ECONOMY	This course is an introductory course to the international political economy. The main objective is to provide basic knowledge in understanding and studying the international political economy. Among the topics discussed are; What is IPE, Mercantilism and economic Nationalism, the liberal perspective, Marxist perspective, international trade, international monetary and finance structure, the economy and politics of regionalism, international development, and North-South Relations.	3	1/2
2	AS21203	INTERNATIONAL POLITICS OF AUSTRALASIA	This course discusses the imperative issues pertaining to the affairs of Australasian region. Specific interest is given to Australia, New Zealand, Papua New Guinea and Fiji from which historical, political and economic issues are discussed. This course shall also explore into the important elements of international system that shape the contemporary Australasian region.	3	2/2
PROGRAMME : GEOGRAPHY [UH6443001]					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	AG20503	HYDROLOGY AND WATER RESOURCES	This course discusses water as an essential component of the physical environment. The distribution and movement of water will be discussed including the hydrological processes involved through a system approach, particularly in watersheds. The process of hydrology includes precipitation, interception, evaporation and evapotranspiration, runoff and river discharge and infiltration and groundwater. Due to the water impact on the development of a society, a number of issues related to water resources will also be discussed. These include supply and demand of water resources, the effects of development on water quality and quantity and the integrated management needs. Students will be exposed with statistical techniques to analyze the data of hydrology and water	3	2/2

			resources as a complementary of the course.		
2	AG21203	ENVIRONMENTAL ECOSYSTEM MANAGEMENT	This course is design to introduce the students with basic ecological and ecosystem concepts. This includes the basic concept in environmental research with focusing the interaction between ecosystems. Furthermore, the course also focuses on mechanism in developing best practice in ecosystem management. Lastly, at the end of the course the student will be able to understand the importance of integrated ecosystem management.	3	2/2
3	AG21703	TOURISM GEOGRAPHY	This course emphasizes students' knowledge and understanding of the basic concepts, elements and principles of space in tourism geography. The course also examines the influence and importance of geographical features (spaces) in the patterns and trends of tourism development at various scales i.e. in space within the global, regional, national and local scales. Historical aspects of tourism development, resources and characteristics of tourist attractions, theories, models and typology, motivations in travel, service elements and various components of tourism geography are also studied. In addition, the course also analyzes the interface between geography and tourism which includes tourism of particular interests, impact of tourism development, and selected issues in tourism geography.	3	2/2
4	AG31003	SOCIAL BIOGEOGRAPHY	Social biogeography studies the human relationship with the biosphere system. This course is an advance for the biogeography course which is fundamental to the knowledge of processes in biosphere systems. Through this course students will be exposed to the functions and roles of humans in ecosystems and their management methods including sustainable environmental management, conservation, and human adaptation to changes in biosphere systems. Students will also learn and understand social issues and problems in general and their relation to the status of biosphere systems. This course is very important as a basis for the ethical and professional formation of students	3	3/2

			towards the direction of efficient biosphere system management.		
PROGRAMME : HISTORY [UH6225001]					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	AJ10203	HISTORY OF SABAH AND SARAWAK (1841-1963)	This is a core course of which is to complete a bachelor's degree in History. The course component involves lectures that discuss political, economic and social developments in Sabah and Sarawak. The focus is on the policy of the Brooke Dynasty in Sarawak (1841-1941), the British Borneo Chartered Company in Sabah (1881-1941), series of uprisings against the British colonial policy, the Japanese occupation (1941-1945), the rise of nationalism, the British Colonial policy (1946-1963), the formation of Malaysian as well as population reactions (1961-1963, and the confrontation of Indonesia-Malaysia. Assessment tasks include research and presentation of essays, literature reviews, and examinations.	3	1/2
2	AJ21803	SOCIAL HISTORY OF MALAYA (1850-1963)	This course examines the social aspects of the society in Malaya from 1850 to 1963. It discusses the traditional aspects of the local society and its relevance with the social changes in the 19th and 20th centuries, especially the impacts on traditional values and Islam. Among the important aspects are the emergence of a plural society, education, infrastructure, urbanization, socio-economy of the society in the depression period of the 1930s, Japanese occupation, and the emergency. It also examines the socio-political aspects in inter-racial relations pertaining to the issue of independence.	3	2/2
3	AJ 21203	HISTORY OF MALAYSIA (1900-1957)	This course discusses Malaysian history in the 20th century, specifically the years leading up to 1963. The main focus of this discussion is the events that occurred up to 1963. This discussion will be split up into two parts, part one will be looking up to the decentralization of British administrative rule in the Negeri Melayu Bersekutu(Persekutuan 1896), the Brooke rule in Sarawak, the British North Borneo Chartered Company(BNBC) administration, and the Japanese occupation era. Part two looks into how the Malay society was post-war such as the Malay Union,	3	2/2

			UMNO, PKM, the Malayan Emergency, the establishment of political consensus in Malaya, Persekutuan Tanah Melayu of 1957, and the creation of Malaysia in 1963.		
4	AJ31403	MALAY HISTORIOGRAPHY	This course discusses the Malay Historiography in the archipelago in looking at the development of the Malay historical tradition, especially in Malaysia. This historiography is viewed comprehensively from 1800-1960 in various perspectives whether in terms of concepts, historical sources, interpretations, comparisons, and philology. Among the important themes studied is the concept of Malay historiography, traditional Malay historiography, sources of traditional writing, the historical tradition in Malay History and Malay Mass, traditional historiography of Kedah and Terengganu, Tuhfat Al-Nafis and Johor-Riau historical tradition, and historiography sociopolitics and economics in Malaya. The emergence of Hikayat Acheh and Hikayat Siak is also touched on in looking at the development of history in the archipelago and its relationship with the Malay historical tradition.	3	3/2

LIST OF COURSES OFFERED FOR INBOUND E-MOBILITY (MARCH 2022)
FACULTY OF ENGINEERING

UH6526001-CIVIL ENGINEERING					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	KA10603	Applied Mechanics	Applied Mechanics is a fundamental course of all engineering disciplines. The course only focused on Mechanics of Statics. To teach the fundamental principles of mechanics relevant to Civil Engineers, the content of the lecture is designed to ensure students possess sufficient background to enter subsequent courses in Mechanics of Solids, Theory of Structures, etc.	3	1/2
2	KA10802	Construction Technology	To introduce the students to the basic knowledge of Construction Technology and to give them a clear understanding of different constructions in Civil Engineering, and methods of constructions.	2	1/2
3	KA24003	Theory of Structure 1	The intent of this course is to provide an introduction to the different methods of structural analysis for beams, trusses and frames, including analyzing determinate structures, cables and arches, moving loads and influencing lines.	3	2/2
4	KA20202	Mechanical and Electrical System	This course is a foundation course for non-electrical and electronics/computer engineering undergraduate students. This course describes the principles of electricity such as current, voltage, resistance and power. These principles are then applied to series, parallel, dc and ac circuits consisting of resistors, capacitors or inductors. This course also covers transformer and three phase systems in power application. Circuit software is used for simulation and verification of the electrical circuits' problems.	2	2/2
5	KA21603	Geotechnical Engineering 1	This course provides background knowledge on the properties and behaviour of soils for geotechnical engineering practice. Understanding of the course will help the students in designing civil and geotechnical engineering structures. Knowledge on properties and mechanics of soil include soil classification, mass-volume relationship, compaction, permeability and stress distribution.	3	2/2
6	KA34802	Traffic Engineering	This course intends to provide an in-depth knowledge on the Highway and traffic analysis involves an extremely complex interaction of economic, behavioral, social, political, environmental and provide students with a solid introduction to the principles of traffic engineering with the focus on traffic analysis, urban traffic optimization and solution to traffic problem for construction and operation of highways	2	3/2
7	KA35003	Hydrology and Water Resources	This course is intended to train the students on the principles and applications of engineering hydrology. The students will be provided with all the tools for analysis and management used for the design of water resources structures such as dams, canals, bridges and irrigation systems.	3	3/2

UH6523001-ELECTRICAL & ELECTRONICS ENGINEERING					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	KE17403	Electrical Circuit Analysis	This course covers fundamental topics that are common to a wide variety of electrical engineering devices and systems. The topics include circuit analysis techniques, power analysis, time-response of first- and second-order systems, sinusoidal steady-state response, frequency domain analysis, filters, pole-zero plotting and analysis in the complex plane.	3	1/2
2	KE17603	Logic Design	The Logic Design covers the digital building blocks, tools, and techniques in the design of computers and other digital system. This course covers a variety of basic topics, including switching theory, combinational sequential logic circuits, and memory element.	3	1/2
3	KE21103	Computer Architecture and Microprocessors	This course consists of 2 modules comprising Microprocessors and Computer Architecture. Module 1 on Microprocessors introduces students to microprocessor and assembly language programming in general, and then discuss, in details, how to program in assembly language, a common microprocessor, the Intel 80386DX. Finally interfacing techniques between the Intel 80386DX microprocessor to peripheral devices is then given. In Module 2, the structure, function and architecture of computers are introduced. Besides that, Module 2 also serves to provide knowledge on characteristics of modern-day computer systems. At the end of the course, students should able to appreciate the knowledge of microprocessor design into computer architecture operations and functions of performances optimization.	3	2/2
4	KE37603	Communication Systems	The course contains the principles of electronic communications. It starts with the introduction to communication systems, followed by signal representations in communications with brief review of signals and systems. The next part covers modulation techniques. It begins with advantages and classification of modulations, baseband and bandpass concept. After that, analog modulation theory of AM, FM, and PM are given, with their respective modulators and demodulators. Digital transmissions are presented afterwards, starting from the review of sampling followed by pulse modulation with variants of PAM and PCM, and digital modulations (ASK, FSK, PSK and QAM). The last part deals with other important topics in communications, i.e. error control coding, multiplexing and multiple-access, and link budget analysis.	3	3/2
5	KE47203	Electrical Energy Utilization	This course introduces the fundamentals in electric energy systems which will enable a student to understand current issues and challenges in electric power systems and what it takes to have a reliable electric power supply at your house. The topics will include electric power plants (renewable and non-renewable); transmission and distribution; and utilization. Maintaining the balance between generation and consumption is important to avoid catastrophic blackout	3	4/2

			events. Hence, the notion of stability and available control concepts will be introduced.		
6	KE41603	Artificial Intelligence	This course introduces techniques applied for vision-based applications. The techniques include image processing fundamental techniques as well as 3D imaging techniques. The techniques are implemented for the purpose of practical implementation in the industrial environment or for applications to machines such as automated welding robots, automated faulty IC chip detection and hand gesture recognition system. Programming language such as MATLAB or C++ will be introduced to facilitate the practical solutions of the vision-based problems.	3	4/2
7	KE41103	Robotics	This course is one of the elective courses for an electrical and electronic engineering student who is specializing in Control & Automation. The course serves as a foundation course to teach the mathematics, design, analysis, and control of robotic systems. The course will expose students to experience to design software solutions for planning and controlling of robotic paths. Robotic programming software will also be introduced as a tool to control real-life robots which includes the Flexible Manufacturing System.	3	4/2
8	KE44603	Antenna And Applications	Antenna acts as RF / microwave system`s energy sensing purpose. Review of frequency domain electromagnetic wave dynamics, radiation, and RF energy liberates as well as receives by antenna as its universal characteristics will be discussed. Various types of commonly used wire and aperture antenna, and antenna array techniques, polarization, cross polarization and other aspects of antenna design and orientations will be addressed. Radio wave (RW) propagation characteristics, impedance of free space, different types of RW characteristic antennas, its virtual height, and reusable frequency for different sort of communication will be addressed. Current topics such as adaptive and smart antennas will be introduced for assessment and use of it from traditional antenna system. Nano- antenna and biological application of it will be deliberated in this course.	3	4/2

UH6524001-CHEMICAL ENGINEERING					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	KC12603	Chemical and Bioprocess Technology	This course introduce environmental engineering with sufficient of knowledge in water resources engineering, water treatment, pollution, wastewater treatment, air pollution, noise pollution, waste management, hazardous management and sustainabilit green engineering. Ethics and introduction of laws and legislatic practicing engineering pertaining environment was also included course .This course apply sciences and mathematics to utiliz properties of matter and source of energy in the soluti environmental problems.	3	1/2
2	KC32803	Environmental Engineering	This course introduce environmental engineering with sufficient depth of knowledge in water resources engineering, water treatment, water pollution, wastewater treatment, air pollution,	3	3/2

			noise pollution, solid waste management, hazardous management and sustainability and green engineering. Ethics and introduction of laws and legislations on practicing engineering pertaining environment was also included in this course .This course apply sciences and mathematics to utilize the properties of matter and source of energy in the solution of environmental problems.		
3	KC42202	Plant Design Operation and Maintenance	This course covers the entire chemical process, process modifications, troubleshooting and implementing operational strategies for plant retrofit design, operation and maintenance. This is designed for the operation of modern plant to improve the operational efficiency. Further, this course addresses the problems of including some aspects of uncertainty in process parameters and product demands at the design stage of multi product/multipurpose batch plants. The formulation, featuring a relaxation of the feasibility requirement with respect for economic optimality and plant feasibility are highlighted in this course. Apart from that, the course focuses on understanding the safety of the plant and regulatory oversight. Focus on the environmental and waste management of plant is also being introduced.The formulation, featuring a relaxation of the feasibility requirement with respect for economic optimality and plant feasibility are highlighted in this course. Apart from that, the course focuses on understanding the safety of the plant and regulatory oversight. Focus on the environmental and waste management of plant is also being introduced.	2	4/2

UH6521001-MECHANICAL ENGINEERING					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	KM10203	Engineering Materials	An introductory course in applied science examining the fundamentals of atomic structure, crystal structures, defects in metallic structure, plastic deformation of metals, binary alloys, constitution and equilibrium diagrams, the iron-carbon equilibrium diagram. Ferrous and non-ferrous alloys, their manufacturing and engineering applications. Mechanical behaviour of engineering materials, testing of materials, heat treatment of steels, surface modification of metals for specific engineering applications, tribological properties of metals and non- metals.	3	1/2
2	KM20603	Numerical Methods	This course serves as an introduction to the numerical methods used to solve mathematical problems in engineering practice and that are often impossible to solve analytically. They are formulated so that they can be solved with arithmetic operations and can be implemented on computers.	3	2/2
3	KM32003	Finite Element Method	This course introduces the concept of finite element method (FEM) in modelling and solving the practical engineering problems. The course emphasizes the solution of real-life engineering problems using the finite element method underscoring the importance of the choice of the proper mathematical model, discretization techniques and element selection criteria. The course covers the principle of FEM, direct stiffness method, derivations for prismatic bar under axial	3	3/2

			loading, truss structure, bending of beam, plane stress & strain, and thermal-fluid related application.		
4	KM43803	Computer Aided Manufacturing	The course aims to introduce Design Modeling with computer: CAD/CAM Applications: Hardware and software components for computer automation: Advanced computer architecture used in manufacturing: manufacturing systems: Control of Manufacturing equipment: computer-controlled parts handling and assembly: principles of wire and surface Modeling, solid Modeling and finite element Modeling. In supporting organization of complex system, and the communication of data within the engineering team.	3	4/2

UH6523002-ELECTRONIC ENGINEERING (COMPUTER)

NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	KS21403	Software Engineering	The course is divided into three parts. The first part is product and process that provides an introduction to software engineering. The second part, describing the practice of software engineering applications and software engineering practices to develop a software. The third section describes the software project management, inclusive of topics relating to planning, managing and controlling software development projects.	3	2/2
2	KS21803	Probability & Random Process	This course contains essential topics of probability and random variables, with studies of the theories and the applications. It begins with the concepts of experiments, models, basic probability. Based on that, topics such as discrete and continuous random variables, pairs of random variables, random vectors, and sum of random variables are covered. It also provides a brief survey on parameter estimation, hypothesis testing, and estimation of a random variable.	3	2/2
3	KS30403	Control Systems	This course introduces basic concepts of control systems within the constraints of linear time invariant systems. Students will be introduced to basic definitions and system modeling. Laplace Transform is reviewed to show the transformation of time domain to frequency domain for the purpose of analysis and design. Techniques such a Root Locus, Bode and Nyquist plots for analysis and controller design will also be discussed.	3	3/2
4	KS31403	Digital Signal Processing	This course covers the fundamental DSP concepts and applications, Z-transforms, Linear Time Invariant Systems, Discrete and Fast Fourier Transforms, FIR and IIR filters design.	3	3/2
5	KS32403	Computer Architecture	This course provides a basic foundation of how computer works to students. This course also introduces available methods to improve the performance of computer, computer software, as well as discusses issues related to modern processors. It introduces the structure, function and networking architecture of computers and to provide clear and complete knowledge of the nature and characteristics of modern-day computer systems and its network	3	3/2

6	KS40803	Operating Systems	Operating systems are the main central to computing activities. An operating system is a program that acts as an intermediary between a user of a computer and the computer hardware. The main tasks of operating systems are to manage resources such as CPU time and memory and to manage the users and software	3	4/2
7	KS41403	Computer Security	This course will cover the most important features of computer security, including topics such as cryptography, operating systems security, network security, and language-based security. The course will discuss more on Security Control, Access Control, Firewalls, Protocols, Mobile codes, Network Security Controls, Cryptography and Privacy, Anatomy, Legal & Ethical issue in computer system security.	3	4/2
8	KS42803	Image Processing	The course introduces image processing theories, algorithms and practical solutions which cover the topics of digital image perception and acquisition, enhancement, segmentation, morphological transform and compression. Various digital image applications such as in medical imaging, digital photography and vision system will be discussed. MATLAB software will be used for practical learning.	3	4/2

UH6524002-OIL AND GAS ENGINEERING					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	KG12603	Reservoir Rock and Fluid Properties	This course introduces students to the important concepts, theories, and methods of properties determinations (calculation, correlation, and laboratory method) of some reservoir rock and fluid properties. The topics in reservoir rock properties include porosity, permeability, fluid saturation, rock compressibility, rock wettability, relative permeability, capillary pressure, and electrical properties of reservoir rocks. In reservoir fluid properties, the topics cover one and two-phase behaviours of both ideal and real systems, gas properties, liquid properties and reservoir fluid properties.	3	1/2
2	KG32803	Formation Evaluation and Well Testing	This course exposes students to electric logging which covers the basic concept of reservoir resistivity, spontaneous potential, resistivity log, Gamma-ray log, neutron log, formation density log, and acoustic log. Lectures also cover open hole log analysis and interpretation, the use of Archie's equation and other methods to determine water saturation, lithology and porosity determination, and assessing the true formation resistivity prior to computing the hydrocarbon reserves. Apart from that, this course also introduces students to well testing practices in oil and gas industries. The contents of the course include the concept and principles of well testing, equipment, well test interpretation methods and well test design.	3	3/2

LIST OF COURSES OFFERED FOR INBOUND E-MOBILITY (MARCH 2022)

FACULTY OF BUSINESS, ECONOMICS AND ACCOUNTANCY

UH6345001-ENTREPRENEURSHIP					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	BB20203	E-Commerce in Entrepreneurship	The course serves as a comprehensive introduction to the field of e-commerce. It provides students with an overview of the framework that organizes the entrepreneurial decision-making for e-commerce strategy, the importance of entrepreneurship and on-going innovation in the e-commerce environment. Students also will be exposed to recognise trends, challenges and patterns of success and failure and can describe the benefits of e-commerce to organizations, consumers, and society. This course requires students to identify and successfully deal with sustainability, cultural, and ethical issues in managing global e-commerce venture.	3	2/2

UH6343001-FINANCIAL MANAGEMENT AND BANKING					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	BD31503	Theory and Practice of Islamic Banking	This course is designed to expose the students to the theory and practice of Islamic banking and finance. The theoretical part includes discussions on the Islamic Syariah (jurisprudence) law and muamalat (business and economics), especially the philosophies and principles of Islamic banking and finance, riba (interest) and the various financial contracts under the Islamic Syariah. The practical part examines the current practice of Islamic banking and finance, including the discussion on the Islamic financial markets, products and services (including the takaful), and the operation of Islamic banks.	3	2/2

UH6811001-HOTEL MANAGEMENT					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	BE20303	Introduction to Hospitality Industry	The introductory course provides initial exposure of the vast scope of the hospitality industry that comprises of various food establishments, lodging sectors and recreational and leisure theme park alike. In addition, students will also be exposed to the structure, nature and operating characteristics of these different sectors of hospitality industry. The holistic nature of this course providing insights on nature of various career prospects in the hospitality industry would assist students in shaping their expectation on the reality of this fascinating industry.	3	1/2

UH6345002-INTERNATIONAL BUSINESS					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	BA21003	Intro to International Business	This course aims to provide an overall idea of the scope of international business compared to domestic business. Students will analyse the global environment by determining the opportunities, challenges and complexities faced by companies operating in the international arena. Students will conduct country analysis to identify the similarities and differences between countries and determine the opportunities and risks of specific countries. Appropriate entry strategies for companies that plan to go international will also be identified and discussion on how companies that operate internationally are included.	3	3/2

UH6342001-MARKETING					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	BG22303	Planning & Product Management	This course will provide appropriate theories, models and other tools on which to make better product and branding decisions. Particular emphasis will be placed on decision-making by consumers between brands and products, developing critical skills in building the product portfolio, measuring brand performance, developing, implementing, and monitoring brand equity strategies. This course is based upon the premise that the ultimate consumer is the key to success of many marketing efforts and hence marketers need to know how to manage their brands and products within these consumer markets.	3	2/2

UH6812001-TOURISM MANAGEMENT					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	BY20103	Principles of Tourism	Principles of Tourism are an introductory course which introduces the key concepts that tourism student will need to understand the complexity of tourism. Students will be able to identify the main sub sectors. Besides that, the focused is also on the operating characteristics, trends and issues that dominate tourism specifically upon attractions, accommodations, intermediaries, transportation, public sector and destination.	3	1/2

UH6314001-PLANNING AND DEVELOPMENT ECONOMICS					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	BC32203	Industrial Economics	Industrial economics is a field of economics that studies the strategic behavior of firms, the structure of markets, and their interactions. The study of Industrial Economics adds to the perfectly competitive model real-world frictions such as limited information, transaction cost, cost of adjusting prices, government actions, and barriers to entry by new firms into a market. Thus, the rational of inclusion of this course is to familiarize students with various disciplines in Industrial Economics context.	3	3/2

UH6314002-FINANCIAL ECONOMICS					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	BF30703	Islamic Financial Economics	This course is the basic introductory to Islamic economics and financial economics especially in the area of finance and banking. It discusses the concept and application in Islamic finance and gives exposure to the students on how Islamic teaching perceives the financial systems and its functions. Among the discussed concepts and issues in this course are scarcity and resources, surplus and deficit sectors, riba, hibah, Trade, al-bay', BBA (Al-Bay Bithaman Al-ajil), Mudharabah, Musyarakah, Islamic capital and bond market, and also Islamic banking and finance products such as al-Tijarah, al-Murabahah, al-Salam, al-wadiah, al-istisna', ar-Rahn, al-Hiwalah, al-wakalah, al-kafalah, takaful dan al-ijarah. This course also discusses the role of Baitul Mal and zakat.	3	3/2

UH6314003-HUMAN RESOURCE ECONOMICS					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	BH20203	Labour Economics	This course is designed to provide an introduction to the theory and practice of contemporary labour economics. The primary focus of this course will be on developing an understanding of the determinants of wage rate and employment levels in labour market. The analytical tools of neoclassical economics will be used to examine contemporary policy issues. Topics of discussion include supply and demand of labour, labour market equilibrium, wage determination and structure, and migration.	3	2/2

FACULTY CORE (FOR ALL PROGRAMS)					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	BT21303	Organisational Behavior	This course will enrich students' knowledge about the concepts and issues of human behaviours in organisations. Organisational behaviour is closely linked to human behaviour, at individual, group and organisational level. The main goal of the course is to enable students as future managers to understand organisational behaviour as a	3	2/2

			mechanism to improve productivity, motivation, satisfaction and performance besides to reduce negative work behaviours.		
2	BT22303	Human Resource Management	The course is designed primarily for the undergraduate course. It is intended for students who are being exposed to HRM for the first time. The course is designed to get students to be in touch with the field through the use of numerous examples and company material and will reinforce the notion that, by definition, all managers are necessarily involved with HR. The course provides helpful insights for those students who aspire to management positions. The course is divided into six major parts: Part 1: Overview of HRM, Part 2: staffing, Part 3: performance management and training, Part 4: compensation, Part 5: labour & employee relations, safety and health, and Part 6: operating in a global environment.	3	2/2
3	BT12003	Marketing	This course deals with the study and analysis of the basic principles, theories, problems, and practices of marketing in our modern ever changing economic environment. Emphasis is placed on the marketing functions, planning and the distribution of goods and services from the producer to the ultimate consumer. The marketing mix (product, price, place, and promotion) is presented as a controllable variable to target market segments, which have unmet needs and wants that a firm can satisfy and be profitable. Market research and information technology tools of the marketing manager are explored.	3	1/2

LIST OF COURSES OFFERED FOR INBOUND E-MOBILITY (MARCH 2022)

FACULTY OF PSYCHOLOGY AND EDUCATION

UH6311001-INDUSTRIAL & ORGANIZATIONAL PSYCHOLOGY					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	PI20303	Personnel Psychology	Human resource costs have grown to be one of the largest costs for most organizations. It is of utmost importance to facilitate optimal performance of employees. To do so, one needs to match individual characteristics to tasks and organizational environment, and able to implement personnel psychology theories and practices in any organization. This course discusses issues in human resource development based on concepts and psychological theories.	3	2/1

UH6311002-YOUTH & COMMUNITY DEVELOPMENT					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	PB20403	Cross Culture Psychology	This course introduces Cross-cultural Psychology as one of the sub-disciplines of psychology that emerged from the awareness of the limitation in studying human behaviours. In this course, aspects of methodology in cross-cultural research and generalisation of 'the mainstream psychology' are given emphasis	3	2/1

UH6311003-COUNSELLING PSYCHOLOGY					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	PK10103	Principles and Philosophy of Counselling	This course will provide a comprehensive overview of counselling services which include the historical aspects, backgrounds, requirements, definitions, philosophies, principles, goals, models, processes, and approaches in counselling. This course also provides knowledge and emphasis on basic counselling skills, counselling relationships, types of counselling and client types. Issues in counselling such as ethics, counselor training, licensing, counselor effectiveness, research and evaluation are also been taught.	3	1/1

UH6311004-CHILD & FAMILY PSYCHOLOGY					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	PA20303	Marriage and Family	This course will focus on family and marital institutions. Emphasis will be given to the selection of partners and dynamics of marriage and family life. Discussions will focus on family relationships and kinship. Issues related to marital and family institution, family law regulations from religious point of view, civil law and culture will be discussed. Future challenges on marriage and family institutions also are discussed.	3	2/1
2	PA20503	Children in Troubled Family	This course exposes students with the knowledge about children in troubled families. The issues will be discussed in detail on why and how the issue exists. Students will also be exposed in practice as well as the theories involved. This course has been diverted from road leading to healthy development by such	3	2/1

			forces as child neglect, parental divorces separation, alcoholism, illness and death, and the impact these crisis have on individual child's development as it will depend on their perception of events, their individual personality characteristics, and the strength of their coping skills.		

UH6762001-SOCIAL WORK					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	PT10103	Introduction to Social Work	This course discusses the basic understanding of social work namely social welfare, social policy, and social service. The discussion begins by identifying the ideologies of social welfare such as welfare values, welfare rights, the conception of social welfare, characteristics of social welfare, purpose and function of social welfare, the trend in social welfare and the responsibility of government and society towards social welfare. Further explanation on the scope of social work that includes understanding, assumptions, characteristics, purpose, the focus of intervention, function and roles in the practice of social work fields. Moreover, this course will discuss the development of social work, the criteria of a social work profession, theoretical framework, values and skills in social work. Lastly, this course also discusses the issues in social work practice such as in education, professional training and the future of social work in Malaysia.	3	1/1

UH6813001-SPORT SCIENCE					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	PZ20303	Pengurusan Organisasi Sukan dan Sumber Manusia	Kursus ini menerangkan bagaimana organisasi sukan ditadbir urus. Kemahiran pengurusan dan ciri-ciri kepimpinan akan dibincangkan. Pelajar akan diajar dengan pengurusan strategik, objektif organisasi, analisis SWOT, dan isu semasa yang berkaitan dengan sukan dan pengurusan manusia. Pelajar akan dilatih untuk menganalisis dan menyelesaikan masalah yang dihadapi dalam bidang sukan dan pengurusan manusia.	3	2/1
2	PZ30103	Pengurusan Pemasaran dan Penajaan Sukan	Pemasaran sukan adalah kerjaya yang berprestij dan mencabar. Kursus ini akan membincangkan tentang bidang pemasaran sukan dari perspektif strategik yang merangkumi rangka kerja pemasaran sukan, merancang keputusan pemilihan pasaran dan campuran pemasaran sukan. Salah satu aspek penting dalam pemasaran sukan ialah penajaan. Oleh itu kursus ini akan melibatkan penyertaan para pelajar tentang cara memahami dan mengamalkan program pengurusan penajaan apabila pelajar ingin menganjurkan sebarang acara sukan.	3	3/1

* Program ini akan dikendalikan sepenuhnya dalam Bahasa Melayu.
This program will be fully taught in Malay language.

UH6145001-EDUCATION WITH TESL					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	TE10003	The Phonology of English	This course explains how English is pronounced in the accent normally chosen as the standard for people learning English spoken in England. This course presents this information in context of a general theory about speech sounds and how they are used in language. This is necessary for anyone who needs to understand the principles regulating the use of sounds in spoken English. Due to the confusing nature of English spelling it is particularly important to learn to think of English pronunciation in terms of phonemes rather than letters of the alphabet and transcribe them using the special symbols to represent them. The course then moves on to look at larger units of speech such as the syllable, and at aspects of speech such as stress and intonation. Students will then be exposed to skills needed to analyse and evaluate speech in English with greater understanding and depth and plan appropriate teaching and learning activities that can be carried out in the classroom.	3	1/1
2	TE10603	Literature in English	This course will enable student teachers to explore the creative aspect of language through literary works. The interplay between language and literature will provide an interesting and fun learning environment, whereby students will be given the opportunity to exhibit their understanding and appreciation of each literary genre either through creative writing or performance. This process serves as a springboard for them to improve their four basic language skills, which are reading, listening, writing and speaking.	3	1/1
3	TE20203	Introduction to Morphology	This course is based on the Generative Grammar Theory which allows students to apply their creativity in generating words in a language within the stipulated rules. This course aims to provide students with exposure and practice in the study of word derivation and formation, and their related components. The activities designed for the course will create students' awareness of the importance of knowing word derivations and formations, to help them improve their vocabulary and language proficiency.	3	1/1
4	TE10303	Teaching of Listening and Speaking	This course aims to build on the principles of communicative teaching with particular focus on oral language. The structure of spoken language is examined. The underlying theories of oral communication will be explored including communication theories, ritual and social events, schema theory, and speech acts. It will reinforce the concept of setting criteria for successful language learning. The teaching of listening and speaking is central to good language teaching since they are important for both classroom exposure and lifelong language needs. The topics covered include theoretical background to oral communication as well as the teaching methodology for listening and speaking.	3	2/1
5	TE10403	Teaching Reading Skills	This course will enable student teachers to understand the complex processes of reading, and of learning to read in a foreign language. Reading is an important skill in situations where exposure to a language may be limited. It is also a key academic skill. This course is structured into three parts. Part one presents the principles about reading, texts and teaching; part two looks more closely at some of the theoretical issues and how they affect reading teaching; and part three focuses on the importance of extensive reading, the choice of	3	2/1

			materials and the way courses and lessons are planned, taught and asses		
6	TE20003	Approaches To Language Teaching	This course aims to introduce student-teachers to various English language teaching approaches. Among these approaches are the Grammar-Translation Method, the Direct Method, the Audio-Lingual Method and the Communicative Language Teaching including Content-based, Task-based and Participatory Approaches. Contentious issues relating to the use of students' mother tongue, error corrections, teacher control, accuracy and fluency are also covered. The pedagogical principles and practices underlying language teaching approaches are considered. In addition, using samples of teaching materials, students are to be actively and critically engaged in discussion examining the benefits and limitations of the approaches considered.	3	2/1
7	TE20303	Materials Development	The aim of this course is to demonstrate the close inter-relationship between input materials, teaching and learning. This course covers the preparation and evaluation of EFL/ESL instructional materials. The class will develop critical skills for analyzing materials in accordance with theories of how second languages are learned, while also considering practical classroomissues and differences in the EFL/ESL environment. The course will utilize a practical hands-on approach to adapting current materials and developing new materials, including those, which target linguistic features in the context of meaningful learner interaction. The class will focus on materials for the different skills in current use in communicative models including (but not limited to) task-based approaches to teaching, issues in computer-assisted language learning, and content-based instruction. Current trend towards authentic materials will be a focal point in this course.	3	3/1
8	TE30103	The Social Context of Language Learning	This course aims to provide students with foundation knowledge of language in society, variety of language, the use of language in various social contexts, and the factors influencing language use in society. Whenever possible, all these aspects will be discussed with reference to our multi-lingual and multicultural society. It is hoped that knowledge and awareness of these aspects will help our students to understand factors influencing their learners in learning a (new) language, to empathize with their learners and make effort to design their teaching to cater to the needs of these learners.	3	3/1
9.	TE30503	Language testing and Assessment	This course introduces basic concepts in language testing, and emphasizes the distinction between teaching and testing. It aims to enable teachers to prepare in-school tests of various types for their learners, and to help them understand the relationship between teaching and assessment. The course introduces the basic concepts of language testing for teachers. Topics include: relationship between syllabus, learning and testing; different types of tests: diagnostic, achievement, proficiency; formative vs summative testing; norm-referenced testing and criterion-referenced testing; issues of reliability and validity; testing the four language skills and subskills; constructing tests; scoring of tests; interpreting test results; and alternative modes of evaluating learners without testing	3	3/1
10.	TE40003	Comparative Literature	This course examines the state of comparative literature world-wide in the 1990s. In the past twenty years a range of new developments in critical theory have changed patterns of reading and approaches to literature: gender based criticism,	3	4/1

			deconstruction and orientalism have all had a profound impact on work in comparative literature. This course introduces some of those approaches through a series of case studies, and asks questions not only about the current state of comparative literature as a discipline, but also about its future. Since its beginnings in the nineteenth century, comparative literature has been closely associated with the emergence of national cultures, and its present expansion in many parts of the world indicate that this process is again underway, after a period of narrowly Eurocentric research in the field.		

UH6145003-EDUCATION WITH SCIENCE					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	TM20003	History of Mathematics	An overview development in mathematics from the prehistoric era, civilization era of Greek, Babylon, Egypt, Hindu, China, Islam and Europe. Various disciplines and philosophy in mathematics will be studied with attention given on the historical aspect of every mathematical topic such as numeral systems, symbol, algebra, geometry, trigonometry, calculus, and statistics. Emphasis is also given on the famous mathematicians and their contributions.	3	1/1

UH6145002-EARLY CHILDHOOD & EDUCATION					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	TD30103	Early Science and Technology for Children	This course discusses the development of scientific thinking among children based on inquiry and problem solving skills. Emphasis is placed on active learning by children through their creative and critical thinking, exploration, investigation as well as problem solving skills while trying to understand the world around them. In addition, this course discusses how to instill positive attitudes among children toward science. This course also allows students to teach early science integrated with technology for children.	3	3/1

UH6145006-EDUCATION WITH HONORS (HISTORY)					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	TH10103	Principles, Methods and Philosophy of History	This course aims to introduce students to the science of history as an academic discipline. Through this course, students will be exposed to important aspects of the discipline of history such as methods, approaches, theories, concepts and philosophies of history. Students are also given exposure to historical thinking such as understanding chronology, exploring, interpreting, imagining and rationalizing historical facts. Such knowledge can help students to build unbiased research and historical writing skills. The course also aims to create awareness of the resources and role in the historiography of the Malay historiography.	3	1/1

LIST OF COURSES OFFERED FOR INBOUND E-MOBILITY (MARCH 2022)

FACULTY OF MEDICINE AND HEALTH SCIENCES

NURSING PROGRAMME					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	MN10404	MEDICAL SURGICAL NURSING I (PERIOPERATIVE, PALLIATIVE, COMMUNICABLE DISEASE AND ALTERED HEALTH PATTERN)	This module emphasizes on the clinical manifestation, characteristic, pathophysiology, diagnostic investigation and nursing management for patients with altered immunity and communicable disease. This module also will cover peri-operative care and nursing care for patients who are under palliative care. Students are expected to be able to make nursing diagnosis and formulate a nursing care plan for the topic listed in the table of content. The care given is according to specific nursing management and diseases in those systems which will converge together with the specific nursing procedures.	4	1/2
2	MN20304	MEDICAL SURGICAL NURSING IV (INTEGUMENTARY, MUSCULOSKELETAL AND NEUROLOGICAL DISORDER AND ALTERED VISUAL AND AUDITORY	This module emphasizes on the clinical manifestation, characteristic, pathophysiology, diagnostic investigation and nursing management for patients with Integumentary, musculoskeletal, neurological disorder and altered visual & auditory. Students are expected to be able to make nursing diagnosis and formulate a nursing care plan for the topic listed in the table of content. The care given is according to specific nursing management and diseases in those systems which will converge together with the specific nursing procedures.	4	2/1

LIST OF COURSES OFFERED FOR INBOUND E-MOBILITY (MARCH 2022)

FACULTY OF MEDICINE AND HEALTH SCIENCES

NURSING PROGRAMME					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	MN10404	MEDICAL SURGICAL NURSING I (PERIOPERATIVE, PALLIATIVE, COMMUNICABLE DISEASE AND ALTERED HEALTH PATTERN)	This module emphasizes on the clinical manifestation, characteristic, pathophysiology, diagnostic investigation and nursing management for patients with altered immunity and communicable disease. This module also will cover peri-operative care and nursing care for patients who are under palliative care. Students are expected to be able to make nursing diagnosis and formulate a nursing care plan for the topic listed in the table of content. The care given is according to specific nursing management and diseases in those systems which will converge together with the specific nursing procedures.	4	1/2
2	MN20304	MEDICAL SURGICAL NURSING IV (INTEGUMENTARY, MUSCULOSKELETAL AND NEUROLOGICAL DISORDER AND ALTERED VISUAL AND AUDITORY	This module emphasizes on the clinical manifestation, characteristic, pathophysiology, diagnostic investigation and nursing management for patients with Integumentary, musculoskeletal, neurological disorder and altered visual & auditory. Students are expected to be able to make nursing diagnosis and formulate a nursing care plan for the topic listed in the table of content. The care given is according to specific nursing management and diseases in those systems which will converge together with the specific nursing procedures.	4	2/1

LIST OF COURSES OFFERED FOR EXCHANGE STUDENTS PROGRAMME (INBOUND MOBILITY)

FACULTY OF COMPUTING AND INFORMATIC

UH6481001/HC00 - COMPUTER SCIENCE (SOFTWARE ENGINEERING)					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	KT14803	Network Fundamental	To provide an integrated and comprehensive coverage of networking topics, from fundamentals to advanced applications and services, while providing opportunities for hands-on practical experience. The course teaches networking based on technology, covering networking concepts using a top-down, theoretical, and integrated approach – from network applications to the network protocols and services provided to those applications by the lower layers of the network.	3	1/2
2	KK24203	Object-Oriented Modeling and Design	This course is designed for students to model and design a problem domain in terms of objects by introducing the fundamental ideas and basic concepts associated with object orientation. Object Oriented Modeling and Design creates a set of models of a software system using UML to implement the identified requirements. This course focuses on helping the learner master OOMD through case studies that demonstrate key OO principles and patterns.	3	2/2
3	KK24603	Web Engineering	Students begin this course by understanding how the internet functions in tandem with the various latest World Wide Web technologies. This course then embarks on its main objective of exposing students to the numerous and diverse collection of current web site design and application development technologies. Students will learn the basic principles, protocols & current practices that power the internet and World Wide Web, how to design and implement a basic web application, how to program scripts that serve the client's browser, how to program scripts that access information from the web server and how to integrate databases into the design of dynamic, data-driven web applications.	3	2/2
4	KK05303	Special Topics in Computer Science	This subject introduces the current trend of technologies, tools used, and activities related to Computer Science. This course introduces the principle and basic concept of Augmented Reality (AR) and Virtual Reality (VR) technologies and provides an in-depth analysis of AR/AR technologies, the development history of AR/VR, types of AR/VR systems, application design and analytics techniques, data visualisation, tracking and pattern matching, and their capabilities and limitations. The course will also provide a unique opportunity to learn about the data visualisation and interaction of AR/VR applications. The students will also learn and understand different types of AR/VR hardware and software available in the market (display, head tracker, and human haptic sensory system) and their strengths and weaknesses. Understand the issues and human factors, which need to be considered in choosing, developing, and assessing an AR/VR system. This course also provides hands-on experience in constructing AR/VR environments with the basic	3	2/2

			practical skills to undertake AR/VR applications design and development.		
5	KK05403	Formal Methods in Software Engineering	This course will introduce students to the use of formal techniques for the specification, design, analysis and verification in the software engineering process. It emphasizes the use of mathematical notation in writing system specification in order to increase its accuracy. Formal methods are essential to develop a critical and large system in which dependability is the most important attribute.	3	2/2
6	KK34403	Human-Computer Interaction	This course provides an introduction and overview of the field of human computer interaction (HCI). HCI is an interdisciplinary field that integrates theories and methodologies from computer science, cognitive psychology, design, and many other areas. Issues include: command languages, menus, forms, and direct manipulation, graphical user interfaces, computer supported cooperative work, information search and visualization, World Wide Web design, input/output devices, and display design. Students will learn the fundamental concepts of human-computer interaction and user-centered design thinking. Students will work on both individual and team projects to design, implement and evaluate computer interfaces.	3	3/2
7	KK34603	Computer Security	This course covers aspects of computer and network security. It looks at aspects in computer and network security from the perspective of the plan-protect-respond cycle of security. The planning element deals with planning and policy to anticipate security threats, the protect element introduces technologies and measures to enforce security, and the responding element deals with the aftermath of security breaches.	3	3/2
8	KK34803	Parallel Programming and Distributed Systems	Software needs to leverage multiple cores, handle thousands of users and terabytes of data, and continue working in the face of both hardware and software failure. Concurrency and parallelism are the keys, and Seven Concurrency Models in Seven Weeks equips student for this new world. See how emerging technologies such as actors and functional programming address issues with traditional threads and locks development. Learn how to exploit the parallelism in the computer's GPU and leverage clusters of machines with MapReduce and Stream Processing. And do it all with the confidence that comes from using tools that help you write crystal clear, high-quality code.	3	3/2
9	KK04503	Evolutionary Computing	This course will provide students with a basic understanding of evolutionary computation. Topics include an overview of how biology inspired computational algorithms, the basic processes of an evolutionary algorithm, genetic algorithms, evolution strategies, evolutionary programming, genetic programming and how to practically apply evolutionary computation.	3	3/2
10	KK04103	Heuristics Algorithm	This course will provide students with a basic understanding of modern heuristic algorithms as applied to optimization problems. Theoretical and practical topics include optimization basics, solution representation, objective functions, selection evaluation, search landscapes, local optimums, discrete problems, hill-climbing, global and local search, simulated annealing, tabu search and swarm intelligence.	3	3/2

UH6481002/HC05 - COMPUTER SCIENCE (NETWORK ENGINEERING)					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	KP14203	Object Oriented Programming	This course is an introduction to object-oriented programming using Java. Students will learn how to write object-oriented programs by exposing them to the concepts of class, how to define their own classes, inheritance and polymorphism. Apart from that, some important features of Java will be discussed. These include control structures, event-driven programming, and file I/O.	3	1/2
2	KP24403	Web Technology	Students begin this course by understanding how the internet functions in tandem with the various latest World Wide Web technologies. This course then embarks on its main objective of exposing students to the numerous and diverse collection of current web site design and application development technologies. Students will learn the basic principles, protocols & current practices that power the internet and World Wide Web, how to design and implement a basic web site, how to program scripts that serve the client's browser, how to program scripts that access information from the web server and how to integrate databases into the design of dynamic, data-driven web sites.	3	2/2
3	KP00603	Mobile Application Development	This course provides useful guidelines, standards, techniques, and best practices for building mobile product from start to finish. This course covers basic design and development principles that govern all mobile devices and platforms. Students will be explored with the more advanced capabilities of the mobile web, including markup, advanced styling techniques, and mobile Ajax.	3	2/2
4	KP01003	Network Management and Monitoring	This course discusses the concepts of network management. It includes the planning, testing and performance measurement techniques. The operational aspect, utilization of diagnostic tools and the network management system are also discussed. The current standards in relation to network management also be examined.	3	2/2
5	KP00103	Ad Hoc and Sensor Networks	This is a basic course in networking protocols for MANETs (mobile ad hoc network) and sensor networks. The objectives of the course are to introduce and study established and emerging areas of wireless networking such as WLAN (Wireless Local Area Network) and WPAN (Wireless Personal Area Network). Physical layer technologies are briefly discussed. The focus is on network protocols above the physical layer, such as the media access control and TCP protocols. In addition, routing algorithms of MANETs and design issues of sensor networks are explained.	3	3/2
6	KP34403	Parallel and Distributed Computing	This course will show students how to exploit different parallel architectures to improve your code's performance, scalability, and resilience. Students will learn about seven concurrency models: threads and locks, functional programming, separating identity and state, actors, sequential processes, data parallelism, and the lambda architecture.	3	3/2
7	KT14803	Network Fundamentals	To provide an integrated and comprehensive coverage of networking topics, from fundamentals to advanced applications and services, while providing opportunities for hands-on practical experience. The course teaches	3	1/2

			networking based on technology, covering networking concepts using a top-down, theoretical, and integrated approach – from network applications to the network protocols and services provided to those applications by the lower layers of the network.		
8	KP24203	Routing Protocols and Concepts	This course focuses on switching technologies and router operations that support small-to-medium business networks and includes wireless local area networks (WLAN) and security concepts. In addition to learning, key switching and routing concepts, learners will be able to perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, and configure and secure a basic WLAN.	3	2/2
9	KP34603	Enterprise Networks	This course describes the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks. This course covers wide area network (WAN) technologies used for secure remote access. Students gain skills to configure and troubleshoot enterprise networks and learn to identify and protect against cybersecurity threats.	3	3/2
10	KP34803	Network Security	This course covers aspects of computer and network security. It looks on how to monitor, detect and respond to cybersecurity threats. cryptography, host-based security analysis, security monitoring, computer forensics, attack methods and incident reporting and handling.	3	3/2

UH6481003/HC12 - MULTIMEDIA TECHNOLOGY					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	IT12403	Internet Technology	This course provides an introduction of fundamental concepts and architecture of the Internet in addition to the World Wide Web (WWW) and its associated technology. This course covers topics in Internet and WWW technology such as communication tools, security and privacy,e - commerce and information services on the Internet.	3	1/2
2	IT22403	Database Management System	The course introduces the field of database management and its advantages as compared to file based systems as the precursor to database systems. It examines the database environment and the three level ANSI SPARC architecture. The course covers relational models and languages, namely SQL and a brief introduction to Data Definition Language (DDL). The course discusses the main techniques for database analysis and design such as ER Diagram and Normalization. The course also considers the issue of DBMS security. The course finally concentrates on three functions that should be provided by the Database Management System, namely transaction management, concurrency control and recovery.	3	2/2
3	IT22603	Data Structure	This course will introduce to student on the concept of Data Structure which enclose Foundational Data Structure and Object Oriented Design, Pointer and Array-Based List, Linear structure; Linked Lists, Queues and Stack, Dynamic Structure: Binary Trees and B-Tree. Algorithmic; Searching and Hashing Algorithms, and Sorting Algorithms, Recursion and Standard Template Library.	3	2/2
4	IT32103	Human-Computer Interaction	This course provides an introduction and overview of the field of HCI. HCI is an interdisciplinary field that integrates theories and methodologies from computer	3	3/2

			science, cognitive psychology, design and many other areas. Topics are divided into three main components – Foundations, Design Process, and Models and Theories. Subtopics include introduction to human, computer and interaction, interaction design basics, design rules, evaluation techniques, universal design, task analysis, modelling rich interaction and groupware.		
5	IT32403	Management Information System	This course teaches students how organisations use ICT and Information Systems to achieve their objectives. In the early part of this course, the discussions focus on how organisations use Information Systems to achieve their objectives. It is then followed by a discussion on how to secure the information system. The latter parts discuss how IS can help managers to enhance decision making processes.	3	3/2
6	IM22203	Animation	This course is an introduction to animation. It combines both the history, the theoretical elements of animation aesthetics and concepts, with the practical knowledge of animation techniques required to produce animation. The students will be exposed to three dimensional (3D) digital creative content development processes such as storyboarding, modelling, animating, rendering, applying visual effects and compositing. Upon completion of the course, students will be able to produce one short 3D animation sequence.	3	2/2
7	IM22403	Technopreneurship	The course equips students with the entrepreneurship skills in technology where they will learn to create business ideas, analyse market opportunities, develop business models, prepare business plans, as well as to manage business activities and projects.	3	3/2
8	IM32603	Advanced Multimedia	The course is designed to give students a detailed grounding in issues related to Multimedia technology such as concepts and representation of sound, pictures, video, data compression and transmission. It will also cover aspects of multimedia communication networks including broadband ATM, wireless and mobile networks. The students will also learn on how to establish video streaming via online. After successful completion of this unit, students will be able to integrate multimedia technology into both the design and simulation of real world multimedia applications and system. Such skills are useful for their career advancement in the future.	3	3/2
9	IM32803	Multimedia Project Management	Multimedia project management is crucial for every student to learn how to plan and execute their project on time. The course will teach the student how to manage the project based on the pre-production, production and post-production development phases. The student will be equipped with a variety of skills that are useful in the management of a multimedia project. The students are expected to demonstrate their knowledge of multimedia project management in the individual and group assignments as well as the final project.	3	3/2
10	IP01503	Creative Thinking	This course covers the teaching of creative thinking skills for the development of new ideas and decision making. The student as the creative thinker will be exposed to the creative thinking concept, the six thinking hats techniques and the visualisation processes for the creative problem solving exploration in the idea generation. The students are required to apply the six thinking hats techniques and the mind mapping techniques at the end of the course for knowledge comprehension. Students are also exposed to current	3	3/2

			issues regarding creative thinking such as gamifications, Industry 4.0 and High Order Thinking Skills (HOTS).		

UH6481004/HC13 - INFORMATION TECHNOLOGY (BUSINESS COMPUTING)					
NO.	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
1	IT12403	Internet Technology	This course provides an introduction of fundamental concepts and architecture of the Internet in addition to the World Wide Web (WWW) and its associated technology. This course covers topics in Internet and WWW technology such as communication tools, security and privacy,e - commerce and information services on the Internet.	3	1/2
2	IT22403	Database Management System	The course introduces the field of database management and its advantages as compared to file based systems as the precursor to database systems. It examines the database environment and the three level ANSI SPARC architecture. The course covers relational models and languages, namely SQL and a brief introduction to Data Definition Language (DDL). The course discusses the main techniques for database analysis and design such as ER Diagram and Normalization. The course also considers the issue of DBMS security. The course finally concentrates on three functions that should be provided by the Database Management System, namely transaction management, concurrency control and recovery.	3	2/2
3	IT22603	Data Structure	This course will introduce to student on the concept of Data Structure which enclose Foundational Data Structure and Object Oriented Design, Pointer and Array-Based List, Linear structure; Linked Lists, Queues and Stack, Dynamic Structure: Binary Trees and B-Tree. Algorithmic; Searching and Hashing Algorithms, and Sorting Algorithms, Recursion and Standard Template Library.	3	2/2
4	IT32403	Management Information System	This course teaches students how organisations use ICT and Information Systems to achieve their objectives. In the early part of this course, the discussions focus on how organisations use Information Systems to achieve their objectives. It is then followed by a discussion on how to secure the information system. The latter parts discuss how IS can help managers to enhance decision making processes.	3	3/2
5	IE22203	E-Commerce Business Model	The growth of the internet has been astonishing with huge risks and opportunities, as many businesses have faced. While other online businesses flourish, others fail. This course explores the characteristics of internet business models used by these successful companies. It will also train the students in business modelling, through the application of internet technologies.	3	2/2
6	IE22403	Web Programming	This course will provide students with a fundamental understanding as to how an HTML-compliant web site was developed, implemented, and maintained by using the Internet programming language. Students also learn two types of web programming language; client-side scripting (HTML5, CSS3, Canvas and JavaScript) and server-side scripting (PHP) with a simple connection to the SQL database (MySQL) using Apache Web Server.	3	2/2
7	IE32603	Ethics in IT	The ethics issues need to be comprehended and delivered to students in a constructive manner and offer the existing regulatory framework to balance out freedom	3	3/2

			of information dissemination with the need to adhere to rules and regulations of the law. Students should understand important concepts of ethics and legal, regulations, privacy, security and other issues pertaining to society in relation to digital divergence and ICT literacy in order for them to have comprehensive knowledge for them to carry out responsibilities in the digital world.		
8	IE32803	Network Security	Provide the students with fundamental knowledge on the concept and operation of networking and security. It covers both aspects of computer networks and security. The topics include network models, transmission media, error detection and correction, threat environments and their attack, cryptography, access control and firewall.	3	3/2
9	IP00803	Cyber Law	This course is designed to introduce students to the new and challenging problems of Internet law. We will look at relatively simple questions, such as whether clicking on an “I Agree” button is the same as signing a document, as well as more complicated questions, such as where in the world you are (legally speaking) when you are on the Internet. Issues pertaining to intellectual properties (copyright, patent, trademark etc.) are also discussed. This course also debates issues pertaining to privacy, personal data and internet crime and their association with e-business and national security.	3	3/2
10	IP01203	System Engineering	This course intends to help the student to develop the capability of systems thinking by introducing classical and advanced systems engineering theories, methods, and tools. Students need to appreciate the total life-cycle approach to system implementation. Students will be exposed to the process of bringing the system into being - with the identification of needs through requirements determination, functional analyses and allocation, evaluation and validation. Students should also be able to implement the improvements of systems through feedback, and modifications.	3	3/2

LIST OF COURSES OFFERED FOR INBOUND E-MOBILITY (MARCH 2022)

FACULTY OF FOOD SCIENCE AND NUTRITION

UH6541002-FOOD SCIENCE AND NUTRITION					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	NP20002	Food Habits	This is an introductory course to food habits. This course aims to provide current, evidenced based knowledge on food habits in consideration of ethnicity, race, religion, age group and economic, social and psychological circumstances which a6re central in understanding the impact of food habits on nutrition and well-being.	2	2/1
2	NT10102	Fundamental Food Science and Nutrition	The course will provide students with introductory knowledge of the components of food (macro and micronutrients), functionality of food components as ingredients in food, food microbiology(including food safety), food processing and preservation as well as nutrition	2	1/1

UH6541001-FOOD SERVICE					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	NF20502	Food and Culture	This course is a theoretical and empirical exploration of human food choices from an ecological, political and sociological perspective. The course is designed to discuss the socio-cultural dimensions of food production, preparation and consumption that included dimensions of individual, family, community and societal structures, as well as ideological, religious and cultural identities embodied in gender, race, ethnicity and socioeconomic status.	2	2/1

UH6541004-FOOD TECHNOLOGY AND BIO PROCESSING					
NO.	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1	NB20702	Food Enzymology	The historical uses of enzymes to make beer, wine, cheese, and bread are fine examples of the industrial exploitation on its catalytic function and selectivity. This course covers the basic and applied aspects of the enzymology important to food systems. The basic aspects of the course include the basic enzyme properties, factors that affect enzyme activity and	2	2/1

			methods of measuring enzymatic activities. In the other hand, the applied aspects focusing on the enzymes used by the food industry and methods or controlling endogenous enzyme activities.		

LIST OF COURSES OFFERED FOR INBOUND E-MOBILITY (MARCH 2022)
LABUAN FACULTY OF INTERNATIONAL FINANCE

NO	COURSE CODE	COURSE NAME	COURSE DESCRIPTION	CREDIT HOUR	YEAR/ SEMESTER
1.	GT01203	Financial Management	Understanding finance is essential for success regardless of personal life or in one's specific job as everyone has to deal with financial matters one way or another. This makes it important for everyone, especially those who plan to work for business organization to learn the fundamentals of finance. Tasks can be performed better in any business functions if personnel understand finance. Thus, this course is designed for all business students, not just for finance majors. The topics covered are time value of money, financial statements, and financial markets as part of fundamental concepts of financial management, bonds, stocks, rates of return, interest rates, cost of capital and capital budgeting.	3	1 / 2
2.	GT10403	Business Communication for Islamic Finance	This course addresses the Arabic as an important knowledge and skill in the context of Islamic banking and finance. Arabic financial terminology and dalil qat'i are challenging to the non-Arab. Defining the products in brochures and websites can help customers to understand the product, while defining the product verbally, it needs a skillful representative to use the correct pronunciation as an image of well trained, with sufficient knowledge to increase the level of confidence in communication.	3	3 / 2

UH6343002 – INTERNATIONAL FINANCE					
NO	**COURSE CODE**	**COURSE NAME**	**COURSE DESCRIPTION**	**CREDIT HOUR**	**YEAR/ SEMESTER**
3.	GA20203	Financial Accounting	Financial accounting is a specialized branch of accounting that keeps track of a company's financial transactions. The processes start with identifying and recording economic transactions until presenting the accounting information in the company's financial statements (i.e. the Statement of Comprehensive Income, the Statement of Financial Position, the	3	2 / 2

			Statement of Changes in Equity and the Statement of Cash Flows). Job scope related to this course falls under the financial accountant's responsibility. Specifically, the responsibility relates to dealing with stockholders, auditor and stakeholders. Students will be exposed with theories and practical perspectives of accounting process, record, treatment and ethics as prescribed in the International Financial Reporting Standards (IFRS).		
4.	GA20403	Financial Statement Analysis	Financial Statement Analysis is one of the most important subject in making an economic decision of a business. It starts capturing relevance transactions from financial statements, analyze them by using various techniques, and ultimately is a decision making. This course could assist students to make a practical sense in capturing information in a complex structure of financial statements, to polish students in deciding effective economic decision, as well as to equip students with analytical skills and its application in a real business world.	3	2 / 2

UH6343003 – INTERNATIONAL & OFFSHORE BANKING					
5.	GB20203	International Finance	This course is the extension of Financial Management. The focus of this course is on the applications of techniques and financial models for effective decision-making. In practical aspect, the concepts studied earlier are tailored to suit the relevant business and international finance situation. Issues on the environments of multinational companies, international portfolio investment, foreign exchange market, capital expenditure and other international issues in finance are discussed on global scope.	3	2 / 2
6.	GB30803	Credit Management	This course will introduce the basics of credit risk assessment, credit management, and credit collection. It combines theories and practices of credit management. Credit management focuses on this course are consumers and businesses. Among the topics of discussion are definition of credit, credit exposure and risks, role of credit management, types of credit, consumer credit, business credit, and credit control.	3	3 / 2

UH6342002 – INTERNATIONAL MARKETING					
7.	GC20003	Service Marketing	Service industries are progressively becoming an important source of income for countries worldwide. The exponential growth of services sector has also been instrumental to stimulate employment opportunities. For instance, the Malaysia's service sector accounted for more than 50 percent of the GDP in 2011 and 53 percent of its workforce is contributed by the service industry (The World Factbook, 2012). This course examines the important and growing role of services marketing in both consumer and organizational target markets. Specifically, the course aims to acquaint students with the unique challenges inherent in marketing of services; and the theoretical concepts, tools and strategies needed to address them. By discussing current issues in services marketing and customer service strategies, this course offers better understanding on effective customer relationship management; key service delivery elements; and service recovery strategies that lead to the successful implementation of customer focus in service-based businesses.	3	2 / 2
8.	GC20203	Product Management	The course introduces students to the concept and functions of product management and also its practices. The course will be covering and emphasizing particularly on the steps of a new product development, ways on its launching to the global market, the adaptation and standardization, the management of a mature product, also the need to understand the importance of development and brand management. Product Management is one of the most important Ps of the Marketing Mix. That is why a Product Manager's job is becoming increasingly complex among others are changes in information technology, the increased diffusion and improvement in the Internet, increasing global competition, and changing customer needs and wants, ICT challenges, and the growing intense business and competitive environment. This course would provide a basic approach for dealing with all these issues.	3	2 / 2

UH6343004 – INTERNATIONAL FINANCE ECONOMICS					
9.	GD30903	International Financial Economic	The course studies corporate financial decisions in an international setting. The course starts with the concepts of international financial markets. These concepts include international trade flows, international capital flows, international financing/investing and foreign exchange markets. Then, the course discusses international financial decision issues including exchange rate risk management, international investment, capital structure, capital budgeting, and cash management in the global context.	3	3 / 2
10.	GD31703	International Investment and Portfolio Management	The objective of this course is to provide students with the knowledge and skills necessary for investment and the management of portfolio with an emphasis on security market. The course starts with an introduction to investment and portfolio management environment, follows with the step-by-step guide to the risk-return analysis, assessment of the securities markets, and the construction of security-market indexes. Once the fundamental of the syllabus is covered, the course then reviews the modern financial theories in investment portfolio management that are essential for further studies in the area. The final part of the course discusses the strategies and performance evaluation of equity portfolios.	3	3 / 2

UH6343005 – ISLAMIC FINANCE					
11.	GE20003	Islamic Financial System	This course offered is to expose student about the important of Shariah principles in Islamic finance in developing the Islamic financial system and of economics. Students also will be able to develop deeper analytical and theoretical insights of the two main components that constitute the Islamic financial systems and full comprehensions of the various financial systems and institutions that operate in the Muslims countries. The aim of this subject is to: To expose students with theories and practices of takaful as prescribed in the Quran, the AAOIFI and the MASB.	3	2 / 2
12.	GE30903	Islamic Wealth Planning and Management	The aim of this course is to expose students to the ways of managing, investing, and distributing wealth in accordance to the Islamic laws. The course further explains the process of wealth creation and mobilization from conventional and Islamic perspectives as well as the nature and scope of wealth planning. One of the important elements in wealth planning and management is the formulation of an investment strategy. Besides highlighting the types of investments and risk elements for each decision made by the investor, this course also discusses the issues related to wealth planning such as tax matters, relevant institutions and code of conduct for professionals involved in this industry. What is important Islam considering property ownership as a trust.	3	3 / 2
13.	GE30803	Islamic Financial Instrument Development	This course discusses about the philosophy and methodology on Islamic finance and banking product development. Shariah, Usul fiqh and fiqh muamalat are playing main roles toward the formation of Islamic finance and banking product. Besides that, the second sources of Islamic knowledge like Qiyas and Istihsan are also addressed with examples. By learning this course, students are able to increase their understanding on the processes of product formation and product marketing of Islamic finance and banking. In addition, this course also renders emphasis on the role of Shariah Supervisory Body and Shariah Consultant for Islamic bank and Islamic windows respectively. The roles performed by these Shariah bodies are important in ensuring the latest Islamic finance and banking products are in line with the Islamic teaching.	3	3 / 2

14.	GE31303	Ethics and Islamic Finance Governance	Ethics and Islamic Finance Governance is designed to expose students on the importance of corporate governance, Shariah governance and individual governance in the operation of Islamic financial institutions. Besides, this course also exposes students with ethical theories and their applications toward Islamic finance. With some deliberations, students will be brought to understand the Shariah Governance Framework in which the key ingredient of the Framework is "Shariah Compliance" and for that students are given value-added governance knowledge and skill. The topic of this course is broken down into, firstly, ethics and the impact of faith and, secondly, governance that is dealt directly with ethics. Though, as of today, Islamic banking operations are sacred and come with an improved ethical standard, but, still unethical issues like bribery and discrimination are of occurrence unexpectedly.	3	3 / 2