SUSTAINABILITY RELATED PROGRAMMES/MODULES OFFERED BY SCHOOLS IN 2023/2024

ACADEMIC GUIDELINES

1. The maximum number of credits that can be taken is 20 credits in long semester and 10 credits in short semester.
2. 1 credit is equivalent to 1.5 ECTS.

TABLE OF CONTENT

1. **Faculty of Business and Law**
    a. Taylor's Business School……..1

2. **Faculty of Health and Medical Sciences**
    a. School of Biosciences……..……..4

3. **Faculty of Innovation and Technology**
    a. School of Architecture, Building and Design……8
    b. School of Engineering……...16
    c. The Design School……17

4. **Faculty of Social Science and Leisure Management**
    a. School of Education……..18
    b. School of Food Studies and Gastronomy……..19
    c. School of Hospitality, Tourism and Events……..20

FACULTY OF BUSINESS AND LAW

Taylor's Business School

Programme:

Programme Name	**Bachelor of Business (Honours)**
Duration	**3 years**
Intake	**February, April, September**

Throughout this Bachelor of Business programme degree programme, you will gain a deep understanding of various business functions, including management and the marketing of goods and services. By covering all aspects of owning and operating a business, you will develop the skill to navigate the complexities of the business world through our holistic learning modules.

Whether you aspire to manage your own enterprise or contribute to the success of existing organisations, this programme will equip you with the knowledge and skills.

Global Business and Sustainability

Discipline Core:

- Business Capstone
- Entrepreneurship Accelerator Project 1
- Entrepreneurship Accelerator Project 2
- International Business Issues and Policies
- Export Practices and Management
- International Finance
- International Marketing
- Social Entrepreneurship and Ethics
- Sustainable Supply Chain Management

Programme Name	**Doctor of Philosophy in Business**
Duration	**3 to 6-year (full time), 4 to 8-year (part time)**
Intake	**February, April, June, September, October**

Our Doctor of Philosophy in Business is specifically designed for individuals who aspire to acquire advanced research skills and explore scientific knowledge in various functional areas of business. We provide you with the opportunity to cultivate expansive intellectual thinking, enhancing the body of knowledge in business disciplines such as entrepreneurship, human capital, financial economics, investment, supply chain, marketing, and managerial leadership.

As a doctoral student in our programme, you will have the freedom to delve deep into your chosen research area. We believe in empowering you to contribute to the advancement of business knowledge through rigorous research, critical analysis, and the generation of new insights.

Key Research Area

Management

- Employment and Training Opportunities in South East Asia
- Entrepreneurship

- Environmental Management
- Human resource management
- Knowledge Management
- Poverty Alleviation via Tourism
- Real Estate Development
- Strategic Management
- Sustainable and Responsible Tourism

Courses:

No.	Module Code	Module Name	Credit Value	Year Level	Level	Module Pre-requisite
1	BUS60904	Social Entrepreneurship and Ethics	4	1	Undergraduate	NIL
2	MGT62404	Sustainable Supply Chain Management	4	1	Undergraduate	NIL
3	ACC61504	Ethics And Corporate Governance	4	1	Undergraduate	NIL

Module Name	Module Synopsis
Social Entrepreneurship and Ethics	This module is designed to ensure students understand and appreciate community issues while running a business. They would essentially focus their business not only on profits but also on community good. This module combines theory and practice. Students are introduced to the concept, history, and practice of social entrepreneurship, as well as ethical issues around different organizational models. This module is designed to ensure students gain knowledge and creative capabilities and ways that they might use these to create meaningful projects, jobs and small-scale, not-for-profit enterprises that enhance local wellbeing. This module combines theory and practice. It is organized around the challenges facing contemporary societies that relate to the real-world needs of local communities, people and the environment. Students are introduced to the concept, history and practice of social entrepreneurship, as well as ethical issues around different organizational models. This module adopts a few teaching and learning approaches such as, • Collaborative Learning. Students learn through working in pairs or groups to solve case studies and/or community problems. In this way, students learn to work together and share responsibility to achieve a common goal that enhances real communities. • Authentic Learning. Students learn through engagements in various projects that stimulate and/or real-life scenarios. Students are presented with “real life” activities that will make learning more meaningful. • Assessment strategy will be both formative and summative. • Formative assessment strategies are used to check students’ current level of understanding and progress; to provide feedback to teacher and learners; and to guide the next phase of learning. The types of formative assessments for this module will be discussions on tutorial questions and assignments. • Summative assessment is used at the end of the programme to formally assess a learner’s skill, knowledge and understanding gained in these 2

	modules. This module uses blended learning approach, proportion of face-to- 68 This guide is subject to changes without prior notice. face and online learning including the use of TIMES as mode of delivery. Lectures, practical project work, research and information retrieval and self-study are used as part of these approaches. This module consists of three continuous assessments which includes individual and group assignments. The assessments encourage students to be involved practically in social entrepreneurship. It gives students some exposure to how social enterprises work in a business environment. The assessments encourage students to investigate current case studies in social entrepreneurship as well as propose a business in social enterprising.
Sustainable Supply Chain Management	A supply chain is a network of organizations that are involved, through upstream and downstream linkages, in the different processes and activities that produce value in the form of products and services in the hands of the ultimate consumer. The business entities consist of suppliers' suppliers, suppliers, customers, and customers' customers. Due to the economic condition and globalization, sustainable supply chains are important in aligning the organizational goals with the sustainability goals is necessary owing to the rising environmental and social concerns. The co-ordination and integration of information flows both within and across companies are critical to compete successfully in today's marketplace. Logistics is the process that makes that happen. While marketing can be seen as the activity that create customer demand, logistics comprises the activities that satisfy that demand. Hence, the primary aim of this course is to provide a broad understanding of the theory and concepts of Logistics and Supply Chain Management. The learning and teaching approach for the module will be case based learning and problem-based learning. A case-based method is where students will hold discussion of specific situations, typically real-world examples. This method is learner centered and involves intense interaction between the participants. The major goals of PBL are to help students develop collaborative learning skills, reasoning skills, and self-directed learning strategies. The module is supported by a combination of lectures and tutorials. The major assignment involves working in a group and producing a written report and in-class oral presentation based on the questions addressing the business scenario provided. The assignment focuses on problem-based learning (PBL) and engages the learner in a problem-solving activity. In this process, instruction begins with a problem to be solved rather than content to be mastered. Students are explored to a real-world problem and are required to dive into it, construct their own understanding of the situation, and eventually propose the solutions for the problems provided.
Ethics and Corporate Governance	This module is an advanced level module focusing on business and accounting ethics, and corporate governance. It is designed to further enhance students' understanding of the concepts and issues in theory and practices of ethics and corporate governance. This involves the study of theoretical and practical issues involved in the development, implementation and changes in ethics and corporate governance theories and regulatory framework.

FACULTY OF HEALTH AND MEDICAL SCIENCES

School of Biosciences

Programme:

Programme Name	**Doctor of Philosophy in Science**
Duration	**3 to 6-year (full time) or 4 to 8-year (part time)**
Intake	**February, April, June, September, October**

Our Doctor of Philosophy in Science programme is research-based, allowing students to engage in an immersive research experience and fostering a deep passion for discovery.

As a doctoral student in the School of Biosciences, you will have the privilege of working closely with esteemed faculty members who are leading experts in their respective fields. They will serve as mentors and guides, supporting you throughout your research journey. Our faculty members are committed to fostering a stimulating research environment, offering invaluable insights and expertise.

Key Research Area
Environmental Research
Research conducted in this cluster focuses in bioremediation, taxonomic identification of marine flora and to facilitate the development of mechanisms or processes that are in compliance with environmental laws. It will target improvement in resources savings, waste disposal and resolving environmental stress issues. In addition, researchers in this cluster also provide consultation and training in environmental management systems.

Programme Name	**Master of Science**
Duration	**2 to 4-year (full time) or 3 to 6-year (part time)**
Intake	**February, April, June, September, October**

Our Master of Science programme is research-based, designed to provide students with a deep immersion into the research process and foster a passion for discovery. We believe in providing students with hands-on experience in conducting cutting-edge research in various areas of biosciences. Through this immersive research experience, we aim to ignite your curiosity, develop your critical thinking skills, and cultivate a lifelong passion for scientific exploration.

During the programme, you will have the opportunity to work closely with renowned faculty members who are experts in their respective fields. They will guide and mentor you throughout your research journey, offering invaluable insights and support. You will be exposed to state-of-the-art research facilities, cutting-edge technologies, and specialized resources that will facilitate your research work.

Key Research Area
Applied Biodiversity
This cluster investigates the use and conservation of biological resources. Application of this knowledge results in a more sustainable utilization and protection of biological resources in areas such as environmental management, bioremediation, aquatic and plant biotechnology and industrial chemistry.

Courses:

No.	Module Code	Module Name	Credit Value	Year Level	Level	Module Pre-requisite
1	AGR60204	Integrated Project for Sustainable Urban Farming	4	2	Undergraduate	AGR60104, AGR60304, AGR60404
2	AGR60304	Sustainable Agriculture	4	2	Undergraduate	NIL
3	BIO60304	Biodiversity and Conservation	4	1	Undergraduate	NIL
4	BIO62704	Molecules from Nature: Biodiversity and Natural Products	4	1	Undergraduate	NIL

Module Name	Module Synopsis
Integrated Project for Sustainable Urban Farming	The module focuses on impact project research that fosters innovative and sustainable urban farming approaches for achieving food security. Students are introduced to an exploration of crops development and production, distribution practices, urban agriculture policies, as well as soil health and soil contamination. The learning and teaching approach for the module will be seminar-based, with students engaging with key experts in sustainability and food security during the seminar sessions and presenting their ideas and thoughts within the group. There are regular review and feedback sessions leading to the development of proposal and implementation of impact projects to assess progress and alignment to the learning outcomes. The module is supported by a combination of seminars and project sessions. In the preliminary proposal work, students engage with farmers and communities to identify priorities and needs associated with production, economic, and food distribution challenges for urban farms, food waste, and accessibility to fresh affordable in urban communities. The major project can involve research evaluation on resilient agroecological production approaches, economically viable distribution methods, and ways to increase food access and security. Students will be assessed based on their ability to acquire and apply knowledge. The assessment methods include presentations, reports, and reflections, which will determine students' content knowledge and transferable skills such as personal competencies, communication skills & entrepreneurism.
Sustainable Agriculture	Sustainable agriculture can be defined as farming in a sustainable way to meet the demands of the people without compromising the environment as well as protecting the earth to ensure a healthy life for all mankind. The practice of sustainable agriculture comes in many forms, depending on the needs of the farmers or land managers. Sustainable agriculture incorporates environmentally friendly approaches in the production of crops and livestock without damaging the environment. The increase in human population has increased the demand for food supply. This situation has led to food security issues, which we must ensure is sufficient for everyone while conserving our environment through good agriculture practices. This module covers various aspects

	of sustainable agriculture including agronomy, horticulture, aquaculture, plantation, plant protection, agriculture technology, soil management and organic farming. Each topic in this module will be taught through face-to-face lecture, online lecture, laboratory analyses, field work and planting of crops. This module will be assessed based on written-exam, guided practical, project-based assignment, and presentation. The concepts, knowledge and various techniques learned in this MODULE will enable students to work with various organizations from direct crop cultivation, and/or research to management of plantations with an understanding on how to increase yield of crops, increase disease resistance, and enhanced product quality, while lowering the cost of production, and reduce losses. Students can also be affiliated with manufacturers dealing with fertilizer, pest management, breeding, regulation, and bodies implementing good agricultural practices. After completion of this module, students will have basic knowledge in managing and incorporating sustainability in their farming while learning about the science behind sustainable agriculture. Hence, the students will be able to make proper decision on selecting suitable crops to be planted and make proper decision in selecting suitable area, types of farming and types of fertilizer to be applied.
Biodiversity and Conservation	This module is to introduce basic understanding of the inter-relationship between the living processes of humans, animals, plants, and organisms with the habitats that they live in. It also provides students with an overview in the areas related to biodiversity conservation. The module discusses the various strategies of conservation and sustainability of our environment. The students will be equipped with sound understanding of biological diversity and the related processes, where the knowledge can be extended into various fields, including biotechnology, human biology, and the environment. Module content will be delivered as lectures and relevant online materials (e.g. YouTube), and concepts will be extended in detailed problem-solving exercises during the tutorials. Students will develop their practical skills in identifying the diverse life forms and key ecological concepts in the environment through field trips (include both the aquatic and terrestrial habitats) and laboratory work. The students will also work on a group assignment in the form of oral presentation in the latest issues related to biodiversity and conservation. Students will be assessed continuously through written examinations, assignments, and practical worksheets and reports. Students' level of understanding of the knowledge will be assessed formatively via written examinations. Their experimental data analyzing skill will be assessed through worksheets and reports. Critical thinking skills, social competency and teamwork will be assessed through field trips and group assignment.
Molecules from Nature: Biodiversity and Natural Products	This module is to introduce basic understanding of the inter-relationship between the living processes of humans, animals, plants, and organisms with the habitats that they live in. It also provides students with an overview of utilizing the resources in various aspects, particularly the medicinal approach. The module discusses the various strategies of biological resources management and utilization of natural resources. The students will be equipped with sound understanding of biological diversity and the related processes, where the knowledge can be extended into various fields, including biotechnology, human biology, and the environment, in addition to its resources and utilization as natural products. Module content will be delivered as lectures and relevant online materials (e.g. YouTube), and concepts will be extended in detailed problem-

	solving exercises during the tutorials. Students will develop their practical skills in identifying the diverse life forms and laboratory work involving extraction and identification of constituents from the natural products as well as their biological activities. The students will also work on a group assignment in the form of oral presentation on the importance of natural resources and their application. Students will be assessed continuously through written examinations, assignments, and practical worksheets. Students' level of understanding of the knowledge will be assessed formatively via written examinations. Their experimental data analyzing skill will be assessed through worksheets and reports. Critical thinking skills, social competency and teamwork will be assessed through field trips and group assignments.

FACULTY OF INNOVATION AND TECHNOLOGY

School of Architecture, Building and Design

Programme:

Programme Name	**Bachelor of Science (Honours) in Sustainable Digital Construction Management**
Duration	**3 years**
Intake	**February, April, September**

The Bachelor of Science (Honours) in Sustainable Digital Construction Management is multidisciplinary, collaborative and technology-driven and provides better opportunities for students' successful careers in the ASEAN Economic Community industry. The programme is uniquely dedicated to developing construction project managers' knowledge and expertise in sustainable construction by drawing upon subject expertise within the School of Architecture, Building and Design and other schools in Taylor's University. The programme focuses on challenges that the built environment faces today and the impact and importance of creating a resilient built environment and digitised construction project management.

It addresses critical global challenges by integrating contemporary construction management theory and practice with fundamental and interrelated sustainable design and construction theory and practice. The programme will expose students to multidisciplinary teamwork, focused on the integration of green and smart design, and construction processes across a building life cycle through collaborative practices emphasising the practical application of sustainability within the programme.

Primary Major

This component consists of Common Core subjects, which are common modules across a discipline that provides the fundamental knowledge of the discipline.

Common Core

- Construction Management and Safety
- Construction Technology I
- Building Information Modelling I
- Building Services
- Construction Environmental Protection Management
- Site Management
- Construction Planning and Scheduling
- Construction Technology II
- Construction Law and Dispute Resolution
- Construction Measurement and Estimating
- Cash Flow Management and Construction Economics
- Construction Research Project I
- Tendering Management and Contract Administration
- Internship
- Construction Research Project II
- Construction Quality Management / (WBL)
- Industry Project 1 (WBL)
- Industry Project II (WBL)

Specialisation:

Green Construction

- Internet of Things in Construction
- Construction Simulation Project / (WBL)
- Green Technology and Construction
- Innovative Construction Materials
- SMART Building Systems

Smart Construction

- Internet of Things in Construction
- Construction Simulation Project / (WBL)
- Data Science Principles
- Building Information Modelling II
- Extended Reality in Construction

Courses:

No.	Module Code	Module Name	Credit Value	Year Level	Level	Module Pre-requisite
1	ARC60504	Architecture and Environment	4	1	Undergraduate	NIL
2	ARC60508	Architectural Design IV	8	2	Undergraduate	ARC60408
3	ARC61204	Architectural Conservation and Tourism	4	2	Undergraduate	NIL
4	ARC61604	Sustainable Design, Policies and Regulations	4	2	Undergraduate	NIL
5	ARC61704	Sustainable Living	4	2	Undergraduate	NIL
6	ARC61804	Green Strategies for Building Design	4	2	Undergraduate	NIL
7	ARC61904	Energy and Architecture	4	2	Undergraduate	NIL
8	ARC62004	IT Application for Sustainable Design	4	2	Undergraduate	NIL
9	BLD61204	Sustainable Housing Development	4	2	Undergraduate	NIL
10	BLD62704	Green Technology and Construction	4	2	Undergraduate	NIL
11	ARC70803	Nature and Architecture	3	2	Postgraduate	NIL
12	ARC70903	Environment and Technology I	3	1	Postgraduate	NIL
13	ARC71003	Environment and Technology II	3	1	Postgraduate	ARC70903

Module Name	Module Synopsis
Architecture and Environment	The module introduces the components of environmental conditions and issues that need to be considered in architecture design. It focuses on human intervention affecting the environment both positively and negatively and the relationship of buildings with the natural system. The area of study consists of basic building design, advocating

	passive design, and designing with nature to enhance energy efficiency in buildings. Students will be introduced to the basic elements of climate and their influences on architecture, which aims to facilitate students to create acceptable environmentally conscious, and comfortable building designs. The teaching and learning will revolve around students being presented with issues in realistic situations found in everyday spaces and places. Students will be provided with authentic context that reflects how knowledge will be used. The module is supported by a combination of regular face-to-face lectures, tutorials, asynchronous learning, and feedback sessions in the form of formative assessment to ensure the students have embraced the principles' alignment to the learning outcomes in relation to the module. Students' learning will be assessed via tests and assignments. The assignments consist of both group and individual work. The assignments will be on real-life issues and case-based learning. Assignments shall be submitted at the official online portal via Taylor's Integrated Moodle E-Learning System (TIMeS) and Microsoft Teams.
Architectural Design IV	The studio explores design by harnessing environmental qualities and conditions for human and environmental sustainability through a project with a specific community of users within a given context. The projects involve studies of precedence on design projects that are responsive to the environmental conditions and sustainable issues. Using the precedent studies, students explore the environment poetics of the building enclosure that respond to the basic natural context such as the sun, wind, heat, cold, energy issue and existing building context 44 This guide is subject to changes without prior notice. (which has clustered built forms for example community center, nature appreciative center, research center). Considerations should be given to the complexity of the program, site topography and vegetation, socio-cultural events, and variety of passive strategies for sustainable design. The design work should contribute to and merge harmoniously with environment and the site, and provide the best of experiences for the community of users. Students are required to demonstrate applications of knowledge gained from Environmentally Sustainable Design and Building Science 1 modules from prior semesters and integrate research from Asian Architecture module.
Architectural Conservation and Tourism	This module intends to introduce students to the current issues of conservation in Malaysia and beyond and to instill awareness of the values and importance of architectural conservation. It also identifies the interdependence between architecture and tourism and showcases how tourism is sometimes vital for the preservation as well as the innovative re-use of historic architecture and places. The module shall also highlight the balance that is necessary to achieve a long-term sustainable environment for memorable architecture to survive and flourish in the era of mass tourism. A blended learning approach will be applied for the teaching and learning of this module whereby lecture and tutorial sessions will be done face to face or online. In addition, this module requires site visits for the students that can be conducted on-site or by virtual visits. There will be three assessment components for this module that will include two individual assessments and one group assessment. In the first assessment which is individual, students need to conduct a comparative study on conservation and heritage management in relation to tourism between a heritage building or site in Malaysia and a heritage building or site located abroad. The second assessment will be an individual essay writing based on random topics related to architectural conservation and tourism. Lastly, in the third assessment, which is a group, students are required to rejuvenate a

	heritage site in Malaysia experiencing urban decay by proposing a heritage trail to boost its local cultural tourism. All the three assessment components should be able to give an understanding to the students of the interdependence between architectural conservation and tourism.
Sustainable Design, Policies and Regulations	With an emphasis on the UN Sustainable Development Goals (SDGs), this interdisciplinary introductory module is aimed to give students with diverse backgrounds an overview to explore: What is sustainability and why is it essential for future community development? This module introduces students to environmental issues and provides some in-depth understanding of the complexities and influences that the built environment causes on the natural environment. The module intends to instill environmental literacy and understanding of standards and guidelines related to sustainable development and practices that include the protection and conservation of the natural and cultural heritage that is a significant contribution to sustainable development. The area of study consists of environmental issues that are associated with the built environment, sustainability in heritage conservation, and policies, standards, and guidelines related to sustainable development or construction. Students will examine current environmental concerns such as global warming, carbon footprint, and depletion and pollution of natural resources using lifecycle assessment tools and with reference to existing policies and current green building standards including GBI. This lesson gives students an opportunity to pull together the concepts they learned to further explore how heritage properties can be protected through appropriate activities contributing to the social and economic development and the quality of life of communities. The module adopts project-based learning and self-directed learning with a mix of lectures, readings, videos, films, and online discussions to engage students more in learning. The case-based assignments are also designed in different types of literature reviews, research papers, and projects helping students to understand the emerging theories and practice of sustainable design to directly inform architectural practice, to apply in their design projects, and live as sustainability-focused citizens and designers.
Sustainable Living	This module will equip the learner with the knowledge and skills to participate in this rapidly expanding profession and find their position in a sustainable built environment. The module introduces the broad concept of sustainable living within the urban built environments. Sustainable living (or net zero living) aims to reduce societal environmental impact by making positive changes to the built environment. Some of the related strategies include renewable energy, urban farming, sustainable building models, and repurposing waste. In this module, students explore one aspect of sustainable living through precedent case studies and solutioning in a multidisciplinary and collaborative manner. Firstly, students will learn what makes the characteristics of a city for a formal understanding on sustainable aspects. They conduct case studies to examine cities of Malaysia and international contexts focusing on a particular theory/model/framework pertinent to sustainable living. Secondly, they develop a project with a specific scope to address an issue such as climate, natural disaster, food security, energy, waste, and water achieving the SDG effort. The proposed strategy aims to solve an issue that will contribute positive impact which counteract climatic and environmental concerns.

	To conduct the learning and execution of assignments, students will be exposed to the wide context of Sustainable Living in Urban context through blended series of online lecture from academics and industry, online tutorial, and workshops, guided face-to-face and TIMEs communication portal for accessing Module brief, assignment, and submission. In delivery their assignments, students learning shall also be addressed using formative assessment such as constructive feedback and discussions by either both peer-to-peer and tutor-to-student leading to a summative assessment task.
Green Strategies for Building Design	The module introduces students to the theories and practical application mainly focusing on passive sustainable design strategies gathered from traditional architectural heritage and contemporary case studies with minor introduction of active design strategies. It also focuses on the integration of these strategies with architectural design and their spatial outcome and user experience. The learning and teaching approach for the module will be student-centered learning and TIMES are used for students to access module materials, project briefs, assignments, and announcements. Various teaching and learning strategies such as case-based learning and project-based learning are employed to facilitate the learning process. This module is supported by a combination of online lectures and tutorials where regular review and feedbacks is given in the form of formative assessment and related passive-design workshop. The students will be assessed by combination of group performance and individual performance for the respective assignments given. First assessment component shall be Comparative Case Studies between tropical climate region and other climatic region and the second assessment component will be Passive Green Building Strategies Report by which Individually students are required to develop passive and active green building strategies simultaneously with their final architectural studio project.
Energy and Architecture	This module will equip the learner with the knowledge and comprehensive understanding of how energy is used in buildings. Hence, will introduce principles and ways to achieve energy efficiency in environmental systems operation, renewable energy technology and architectural design features. The module emphasizes the role of energy efficiency in low energy building in architectural design through an analysis and evaluation of a selected low energy building (Residential/ Institutional/ Commercial/ Office/ Hospitality). Students will consider the implementation as holistic components of architectural design, which may be critically assessed with theories followed by performance in practical. Specific topics of energy efficient strategies to be addressed and identified namely façade, building system, management, and how these affect the performance of the building. The module equips students with knowledge of building science and skills in the use of effective technology in energy and building design. The module aims to identify the principles of energy efficient systems and overall practice of potential energy savings through inspection (energy audit process) and evaluate energy consumption and the implementation of its strategies to reduce energy usage in design to deliver low energy architectural design. The teaching objective of the module is to provide students with a comprehensive understanding of energy usage and energy efficiency methods in buildings and architecture.

	To conduct the learning and execution of assignments, students will be exposed to the wide context of Energy efficiency strategies in Low Energy Building and Architecture through blended series of online lecture from academics and industry, online tutorial and workshops, guided face-to-face and TIMEs communication portal for accessing Module brief, assignment and submission. In delivery their assignments, students learning shall also be addressed using formative assessment such as constructive feedbacks and discussions by either both peer-to-peer and tutor-to-student leading to a summative assessment task.
IT Application for Sustainable Design	This module aims to gain awareness on the latest trends of digitalisation using Building Information Modelling (BIM) as a process of innovative sustainable design solutions. BIM is a thriving approach and technology that is widely embraced by the Architectural, Engineering and Construction (AEC) industry of different countries to achieve an integrated, highly collaborative, and sustainable design project delivery. The adoption of this whole life-cycle project delivery approach is important to ensure accurate representation of information in projects, thus improving communication, minimizing risk, increased productivity and optimizing time, cost, quality and reducing wastages in design and construction projects. Students are expected to explore the fundamental concept of BIM and its applications in building design collaboration, coordination as well as to apply relevant tools such as Autodesk Revit, Formit Pro and Insight to produce a BIM information-centric based building model and documentation which also includes developing environmental analysis and building performance simulations as an innovative solution to optimize the building design. The module will adopt a project-based and problem-based learning where students adopt their learning a student-centered learning approach in executing a real-world building project. In delivering such projects, students will be exposed to practical and workshop-based sessions to develop projects. The delivery of the module is based on blended learning approach where guided learning such lectures and tutorial session shall be conducted either online synchronous or asynchronous sessions and to be supported with face-to-face session during the practical computer lab session. The students will be assessed by combination of group performance and individual performance for the respective assignments given. First assessment component shall be a Collaborative BIM Project where students develop design and execute a BIM integrated project delivery approach and the and second assessment component Building Performance Analysis Report by which Individually students are required to further develop and optimize the performance of the building design.
Sustainable Housing Development	This module provides students with the opportunity to apply their understanding of global environmental issues and the principles of ecologically sustainable development to large-scale housing development. Emphasis is placed on independent research, self-developed project planning and the application of existing and new knowledge and skills. The module creates an understanding of the implications of sustainability principles in construction projects as well as engaging the links between housing and other forms of sustainable building and development. The learning and teaching approach for the module will be student centered learning. TIMES will be used for students to access module materials, project briefs, assignments, and announcements. Various teaching and learning strategies such as experiential

	learning, problem-based learning, site visits, group discussions, presentations, working in groups, etc. are employed to facilitate the learning process. This module is supported by a combination of online lectures and tutorials where regular review and feedback is given in the form of formative assessment. One of the major assessment tasks is to produce an assignment related to the green sustainable development.
Nature and Architecture	This module emphasises the idea of adapting Nature as the design generator tool for addressing challenges in sustainability issues in built environment. It emphasises the process of studying and understanding nature and the issues of certain geography and mimicking the form, function, systems, and process of that nature in generating creative design solutions, products or services that meet the need in the current industry. Through interactive and dynamic exercises, students will gain a deeper understanding of ecomimicry, practice solving real-world challenges using ecomimicry and explore the emerging science of looking at nature for inspiration. Students will explore a simplified design evaluation for a chosen biomimicry form, function or system using a precedent study and adopt the application to tropical climate condition. Students will apply their knowledge to identify, develop and solve the problems given in a systematic way by applying appropriate recommendation on built environment strategies To conduct the learning and execution of assignments, students will be exposed to the wide context of biomimicry pattern, process and analysis through project based learning and case study method with problem solving process, a blended series of online lecture from academics and industry, online tutorial and workshops, guided face-to-face and TIMEs communication portal for accessing Module brief, assignment and submission. In delivery their assignments, students learning shall also be addressed using formative assessment such as constructive feedback and discussions by either both peer-to-peer and tutor-to-student leading to a summative assessment task.
Environment and Technology I	The module emphasizes the role of sustainable building technology and environment in architectural design through analysis and evaluation of tropical high-rise buildings. It addresses architecture as integration into the environment and technology. It provides the necessary theories [1] on Life cycle Energy Analysis (LCEA), passive energy efficiency strategies (thermal and lighting), passive fire protection and design and construction of lift shafts and sustainable materials to critically assess the architectural design, where it is considered holistically. Specific topics of environment and technology are isolated for investigation. It equips students with knowledge of designing energy-efficient buildings using passive strategies, benign materials and meeting local fire safety requirements to inform the design and, to support the design resolution of students' Design Studio (Advanced Architectural Design I), particularly with respect to energy efficiency and technological aspects. The teaching and learning will revolve around students being presented with issues in realistic situations found in everyday spaces and places. Students will be provided with authentic context that reflects how knowledge will be used. The module is supported by a combination of regular face-to-face lectures, tutorials, asynchronous learning, and feedback sessions in the form of formative assessment to ensure the students have

	embraced the principles' alignment to the learning outcomes in relation to the module. Students' learning will be assessed via case study analysis and integrated design solutions. The assignments consist of both group and individual work. The assignments will be on real-life issues and case studies. Assignments shall be submitted at the official online portal Students are required to be self-driven with supervision by the instructor on a defined outline of content and methodology.
Environment and Technology II	This module emphasizes the role of building technology and sustainability in architectural design through an analysis and evaluation of an urban setting or group of buildings. It addresses architecture as an integration of the sustainable, technology and tropical climate response. These three factors are considered as holistic components of architectural design which may be critically assessed with theories. Specific topics of environment and technology are isolated for investigation. The module equips students with knowledge of building science and skills in the use of information and digital technology to inform sustainability and buildability of the design through conceptual master planning and to support the design resolution of students' Architectural Design, particularly with respect to architectonic and technological aspects. Students will produce a conceptual analysis of a masterplan of site chosen with ecocity framework/model by specifying contextual parameters (building use, building project, location, climate) improving environmental quality of the natural and built environment for future resilience . Students will apply their knowledge to identify, develop a sustainable solution to the problems given in a systematic way by applying appropriate recommendations on energy analysis of a building including the structural, sustainable structure system and constructional strategies for building design. (Concept, design, and system). To conduct the learning and execution of assignments, students will be exposed to the wide context of environmental and technology through project-based learning, a blended series of online lectures from academics and industry, online tutorial and workshops, guided face-to-face and TIMEs communication portal for accessing Module brief, assignment and submission. In delivering their assignments, student's learning shall also be addressed using formative assessment such as constructive feedback and discussions by either peer-to-peer and tutor-to-student leading to a summative assessment task.

School of Engineering

Courses:

No.	Module Code	Module Name	Credit Value	Year Level	Level	Module Pre-requisite
1	CHE60204	Renewable and Alternative Energies	4	2	Undergraduate	NIL
2	ENG60604	Sustainable Development in Engineering	4	2	Undergraduate	NIL

Module Name	Module Synopsis
Renewable and Alternative Energies	This elective module provides students with the knowledge on renewable energies such as solar energy, bioenergy, hydroelectricity, tidal power, wave energy, wind energy, geothermal energy as well as the impact of these energies to the environment, economy and social. This module also introduces to the students how these renewable energies can be used in different situations for power generation as well as the possibility and challenges of the energies to be integrated with the existing energies. The teaching and learning approaches adopted for this module are guided learning, self-directed learning, and problem-based learning. Lectures and tutorials will be delivered through blended learning approach, which including face-to-face learning, online synchronous face-to-face learning, online asynchronous non-face-to-face learning, and online asynchronous activities. Moodle (TIMES) is the main platform for all the online asynchronous learning and activities. Student learning outcomes will be assessed through formative (Quiz) and summative (Test, Assignments, Presentation and Final Examination) assessments in this module. Quiz, Test, Assignments, Presentation, and Final Examination are adopted to assess the knowledge, understanding and cognitive abilities of students in solving the problems by using the knowledge introduced in this module. Moreover, the assignments also support the research-led-learning in this module since the students are required to read and critically evaluate the current technology research on renewable energies.
Sustainable Development in Engineering	Sustainable development in engineering is a practice that all chemical engineers need to implement. All possible pollutants (eg, air, water, soil) are discussed in this module and case studies are applied to implement standards on existing pollution problems. The scope cover topics of current environmental challenge, sustainable development principles, legislations for sustainable process design, sustainable chemical process system to prevent air, water and soil pollution. In 40 This guide is subject to changes without prior notice. practical lab sessions, students are required to conduct investigation to study wastewater treatment efficiency through experimental configuration. The teaching and learning approach for the module will be guided learning, self-directed and problem-based learning, with students engaging with practical tasks during the laboratory sessions and collaborating in group for solving case studies in lecture and tutorial classes.

The Design School

Courses

No.	Module Code	Module Name	Credit Value	Year Level	Level	Module Pre-requisite
1	DST63904	Ethical and Sustainable Fashion	4	2	Undergraduate	NIL

Module Name	Module Synopsis
Ethical and Sustainable Fashion	In this course, students learn the understanding and application of ethical and sustainability value in fashion. Evaluate broadly the impact and views of ethical and sustainable fashion from various perspectives and the contemporary learning of this concept to integrate environmental, future generations (society), and nature into a sustainable development. In this module, students will be able to distinguish relations between ethical value and sustainability approach in fashion. Students will explore the concept of ethical and sustainability that able to support fashion design and businesses, aware of the implications ethical and concept of sustainability in fashion. As part of the learning experience, students will be exposed to various study case series focusing on contemporary issues in fashion. At the end of this course, student will gain a managerial skill of decision making by understanding the ethical components in the case and the sustainability concept to ensure the product developed are following the concept of sustainability thinking. This module will be delivered as a lecture-based learning approach with blended learning where students will experience a face-to-face form of learning experience in class sessions and blended with online teaching models where students learn to use technology to facilitates their individual and collaborative learning and assessment. A project-based assessment will be given to students which contains continuous assessments throughout the semester. A Final Project assessment takes place at the end of the semester and shall be completed by students at the end of the semester. Assessments will measure a student's learning productivity. For each assessment given, the lecturer will provide feedback to improve student's learning progress. Through the completion of this module, students will be able to achieve learning outcome designed for this module.

FACULTY OF SOCIAL SCIENCE AND LEISURE MANAGEMENT

School of Education

Programme:

Programme Name	**Doctor of Philosophy in Education**
Duration	**3 to 6-year (full time) or 4 to 8-year (part time)**
Intake	**February, April, June, September, October**

Nurture your passion for education and pursue a Doctor of Philosophy in Education, where you will embark on a transformative journey of academic and personal growth. Our doctoral programme is designed to empower you to develop an independent thinking approach and cultivate a unique expertise in your research interests.

As a doctoral student in education at Taylor's, you will have the opportunity to engage in advanced research, critical analysis, and scholarly inquiry in your chosen field of study. Our experienced faculty members, who are renowned experts in various areas of education, will guide and mentor you throughout your doctoral journey. They will provide valuable insights, support your research endeavours, and help you develop the necessary skills to contribute to the field of education through original and impactful research.

Education and Society

- Multicultural Education
- Gender and Education
- Peace Education
- Life-long Learning
- Philosophy of Education
- Education for Sustainable Development
- Sociology of Education

School of Food Studies and Gastronomy

Programme:

Programme Name	**Doctor of Philosophy in Food Studies**
Duration	**3 to 6-year (full time) or 4 to 8-year (part time)**
Intake	**February, April, June, September, October**

This Doctor of Philosophy programme is designed to equip both researchers and practitioners like you with the necessary tools to address critical issues encompassing the cultural, social, economic, and political dimensions of food.

As a doctoral candidate in Food Studies, you will engage in cutting-edge research, pushing the boundaries of knowledge in this interdisciplinary field. You will delve into topics that shape our food systems, exploring their impact on society and the environment. Whether your aspirations lie in academia, industry, government, or non-governmental organizations at the local, regional, or global level, our programme prepares you to make a meaningful impact in your chosen career path.

Key Research Area

- Food Cultures and Health
- Food Security, Safety & Risk
- Gastronomies, Food Heritage and Tourism
- Food Security & Sustainability

School of Hospitality, Tourism and Events

Programme:

Programme Name	**Master of Science in Tourism**
Duration	**2 to 4-year (full time) or 3 to 6-year (part time)**
Intake	**February, April, June, September, October**

The Master of Science (Tourism) is a prestigious and research-based programme designed to propel your career in the field of tourism. Whether you aspire to become a teacher, researcher, or industry expert, this one-year programme will equip you with the knowledge and skills necessary to excel in your chosen path.

The programme offers a comprehensive and in-depth exploration of various aspects of tourism, providing you with a solid foundation in both theoretical and practical knowledge. Through a combination of coursework and research, you will develop a deep understanding of key concepts, trends, and challenges in the tourism industry.

Key Research Areas:

- Consumer Behavior
- Destination Development
- Environmental Management
- Ecotourism Rating and Certification
- Economic Impacts of Tourism
- Food Tourism
- Human Resource Development
- Hospitality Services
- Higher Education Services
- Knowledge Management
- Poverty Alleviation via Tourism
- Rural Poverty and Tourism
- Sustainable and Responsible Tourism
- Sustainable Tourism Developments
- Socio-cultural Impacts of Tourism
- Special Interest Tourism
- Socio-Anthropology of Tourism and Leisure
- Services Marketing
- Service Quality
- Tourism Development
- Urban Tourism Management

Programme Name	Doctor of Philosophy in Hospitality & Tourism
Duration	3 to 6-year (full time) or 4 to 8-year (part time)
Intake	February, April, June, September, October

Embark on a journey of intellectual exploration and contribute to the advancement of knowledge in the field of Hospitality and Tourism with our PhD (Hospitality & Tourism) programme. Designed for individuals with a passion for research and a drive for independent thinking, this programme offers a platform to develop a unique expertise in your chosen research interest.

As a PhD candidate, you will have the opportunity to delve deep into your area of interest, conducting rigorous research and contributing new insights, ideas, and theories to the field. Our programme is built on the principles of intellectual curiosity, critical analysis, and originality, empowering you to make a significant impact in the realm of Hospitality and Tourism.

Key Research Areas:

Tourism & Hospitality Business Development Management

- Entrepreneurship
- Environmental Management
- Real Estate Development

Tourism, Event & Recreational Management

- Application of Technology in Tourism
- Economics of Tourism
- Poverty Alleviation via Tourism
- Social & Cultural Impacts of Tourism
- Special Interest Tourism
- Sport & Event Management
- Sustainable and Responsible Tourism

Courses:

No.	Module Code	Module Name	Credit Value	Year Level	Level	Module Pre-requisite
1	EVT61704	Sustainable Event Management	4	2	Undergraduate	NIL
2	TOU62104	Sustainable Tourism Development	4	2	Undergraduate	NIL
3	HOS70404	Sustainable Development in Hospitality and Tourism	4	1	Postgraduate	NIL

Module Name	Module Synopsis
Sustainable Event Management	Sustainability has emerged as an important events management concept, and successful events managers must be equipped with knowledge and understanding of various components related to sustainable event management. This module introduces global environmental issues and sustainability management in the events industry. It includes

	various components and elements related to sustainable events management, which would enable students to develop and manage environmentally sustainable events successfully. The learning and teaching approach for the module will encapsulate Authentic Learning when students examine and review environmentally sustainable components at various stages of an event. Additionally, students will undergo Problem-based Learning by developing a compelling proposal that recommends systems and best practices for implementation at sustainable events. The module is also supported by a combination of face-to-face and Blended Learning/e-Learning sessions, with materials accessible through TIMES. The module has a combination of two assignments and one group project. The assignments require students to recognise environmentally sustainable components for events, and then review these components at various stages of an event. The main project requires students to recommend and justify the implementation of environmentally sustainable components for an event of their design. Students will also be given the opportunity to participate in multidisciplinary collaborations to enhance their group project. Guidance shall be provided through regular feedback and discussions as well as critique through peer and tutor formative assessment. Additionally, nine (9) topics that are taught in this module will adhere to the United Nations Sustainable Development Goals (UNSDG) no. 6, 7, 11 and 12.
Sustainable Tourism Development	The module introduces students to the concepts of sustainable development that can be integrated in tourism business environment. The module will also investigate the fundamental theories of sustainability, the three dimensions of sustainable development; social, economic, and environmental pillars. Another part of the module, the students will have the opportunity to explore and execute the Sustainable Development Goals (SDGs 2015-2030) within the scope of hospitality and tourism. Various indicators of sustainable tourism development that are used by UNWTO, top tourism destinations, and major tourism organizations to measure sustainability in a particular tourism entity will also be explored. The module will adopt a personalized and collaborative learning and teaching approach where there will be a mixture of guided learning and project-based learning. Students will be guided through online lectures, face-to-face lectures, and tutorials together with a series of online activities that help to prepare students for the final written assessment. Students are required to conduct online information search to prepare for the face-to-face tutorial sessions and for preparation of assignments and projects. The module has an individual assignment and a group project. The assignments require students to evaluate the impacts of sustainable development goals on hospitality and tourism industry. The main project requires students to present the potential sustainable practices that tourism organizations can employ towards achieving 17 SDG's.
Sustainable Development in Hospitality and Tourism	The module introduces students to the concepts of sustainable tourism development in a global environment. The module will also investigate the fundamental theories of sustainability, the three dimensions of sustainable development; social, economic, and environmental pillars. Another part of the module will emphasize the development of

	Sustainable Development Goals (SDG 2015-2030) within the scope of hospitality and tourism. The module will adopt a personalized and collaborative learning and teaching approach where there will be a mixture of guided learning and project-based learning. Students will be guided through online lectures, face-to-face lectures, and tutorials together with a series of online activities that help to prepare students for the final written assessment. Students are required to conduct online information search to prepare for the face-to-face tutorial sessions and for the preparation of assignments and projects. The module has an individual assignment and a group project. The assignments require students to evaluate the impacts of sustainable development goals on the hospitality and tourism industry. The main project requires students to present the potential sustainable practices that tourism organizations can employ towards achieving 17 SDG's.