UNIVERSITY COLLEGE OF TECHNOLOGY SARAWAK
MASTER OF ARCHITECTURE
N/581/7/0106(06/23) MQA/PA 9736

COURSE SYNOPSIS

Year 1 Semester 1

Course: BSA 4218 ADVANCED DESIGN STUDIO 1
Synopsis:
This course focuses on the students' ability to design a low density development (medium-sized organization, company or institution) in an urban context. It has to demonstrate the cohesive assimilation of the relevant issues to be solved with respect to building materials, structure and services, which is in line with the future green cities to reduce building foot prints and increase green open space.

Course: BSA 4413 URBAN DESIGN
Synopsis:
This course covers the historical elements of urban planning and principles that contribute to the development of city design. It also covers the issue of urban housing and conservation.

Course: BSA 4313 ARCHITECTURAL CONCEPT AND PHILOSOPHY
Synopsis:
This course exposes students to synthesize and produce literature review connected to the design thesis project. This course also exposes students to affective communication through academic writing convention. This course covers the background the historical elements of local Southeast Asia and International architecture at different perspectives. The critical aspects of the architectural design covers the design intention, the philosophy and the context of the design with respect to the current issues in architecture.

Year 1 Semester 2

Course: BSA 4228 ADVANCED DESIGN STUDIO 2
Synopsis:
This course introduces high rise projects with an emphasis on urban design aspects. Application of high rise structural and services system, new technology, fire safety are taken into consideration and integrated into the design process.

Course: BSA 4523 ARCHITECTURAL TECHNOLOGY
Synopsis:
This course specifically focuses on the various forms and techniques of the structure for large scale and complex buildings. Aspects encompass the variety of architectural feats, structural system, construction technology, choice of materials and integration of building services.

Course: BSA 4322 DESIGN & RESEARCH METHODS
Synopsis:
This course exposes students to research methodology from topic selection, developing problem statement, research design of both qualitative and quantitative approaches, data collection, data analysis and effective communication through presentation and academic writing.

Year 2 Semester 1

Course: BSA 4238 DESIGN THESIS 1
Synopsis:

This course covers implementation of architectural design projects proposed by students. Equal emphasis is given to practical aspects in research, innovation and design progress in each study, with realistic consideration as recognised by the industry in building design. Each student identifies the design thesis topics, providing project summary and research-related problems; analyses and prioritises issues in the proposed project site and designs the project's preliminary scheme. Graphic communication is crucial and this communication should be concise and precise. The final result of the project is a set of graphical illustrations of architectural design (drawings or models of physical/digital) with a text report. The design project is related to the students' dissertations.

Course: BSA 4733 PROJECT DEVELOPMENT
Synopsis:

This course will introduce students to basic elements of building economics in the contemporary building industry of the built environment. The scope of the study will cover factors that lead to the need for building economics, the mode of costing in variable conditions including type of buildings, construction methods and tendering procedures; Cost Benefit Analysis; Cost Control, Life Cycle Cost, Value Engineering, Added Value in Building and Design and Value Management.

Course: BSA 4331 DISSERTATION 1
Synopsis:

This course monitors students' progress to produce high quality draft dissertation in accordance to academic convention.

Year 2 Semester 2

Course: BSA 4240 DESIGN THESIS 2
Synopsis:

This course covers implementation of architectural design projects. Equal emphasis is given to practical aspects in research, innovation and design progress in each study, with realistic consideration as recognized by the building industry. The final result of the project is a set of graphical illustrations architectural design (drawings or models of physical/digital) with a text report.

Course: BSA 4743 CONSTRUCTION LAW & CONTRACT
Synopsis:

This subject covers the requirements of relevant related authorities, legal and contractual aspects between building professionals and clients, and process of management and administration of projects.

Course: BSA 4342 DISSERTATION 2
Synopsis:

This course continue to monitor students' progress to produce and complete high quality dissertation in accordance to academic convention.

Elective Course (Choose 2)

Course: BSA 4913 HOUSING ISSUES
Synopsis:
This course introduces laws and regulations related to housing development and all those involved in the housing industry i.e. planners, architects, developers, consultants and the local government.

Course: BSA 4923 CONSERVATION AND ADAPTIVE REUSE
Synopsis:
This course exposes students to principles and theories in heritage conservation and adaptive reuse. Students will also be exposed to heritage management, acts and regulations, building defects, problem solving and managing a successful heritage conservation and adaptive reuse projects.

Course: BSA 4933 BORNEO REGIONAL DESIGN
Synopsis:
The course covers architectural styles of Borneo, which includes East Malaysia, Brunei and Kalimantan, Indonesia. The course also examines the different architectural era in this region, from traditional, colonial to post-colonialism. The course also examines main characteristics of Borneo regional design and the factors that influence the design, which include environmental, geographical, socio-economic and socio-cultural factors.

Course: BSA 4943 LANDSCAPE DESIGN
Synopsis:
This subject focuses on basic knowledge and fundamentals on landscape design and implementations. Students are exposed to various range of techniques and conventions that designers use to communicate landscape architectural ideas. Students will develop the understanding and appreciation of the significance of landscape design detailing and technical drawing as an extension of the design process.

Course: BSA 4953 SUSTAINABLE PASSIVE DESIGN
Synopsis:
This course specifically focuses on passive design and sustainable issue. Sustainable issues include socio- economy, socio-cultural and environmental aspects.