INTEGRATED PROJECT (Surveying)

Subject Aim:

This subject is intended to:

1. Encourage critical investigation, analysis and synthesis in solving problems in the surveying professional context.
2. Provide an environment for the students to develop skills in identifying and solving problems related to the surveying profession and real estate industry and allow the integration of knowledge gained in separate subject areas.

Learning Outcomes:

Students will demonstrate their ability to:-

1. Integrate and apply knowledge and skills gained from various subject areas on construction engineering design, technology, management, economics and legal aspects to the case of a particular project.
2. Develop teamwork spirit as an effective approach to tackling a project and solving problems related to the surveying profession and real estate industry in a professional context.
3. Communicate effectively technical information in a managerial role, including information collection, proper presentation of analysis and justification of recommended actions.

Brief Syllabus Content:

A construction and property related project scenario will be set to replicate a situation which could be met in practice. Sometimes the restrictions of the study environment will require the scenario to be modified. The integrated project requires students to make use of the knowledge and skills acquired in Level 2 subjects (e.g. Construction Technology and Structure, together with Legal Context of Construction and Real Estate) and Level 3 subjects (e.g. Construction Technology II and Construction Management) to tackle the tasks related to the management, technology and legal aspects as assigned by the respective lecturers. The project will include an element of group effort and individual work assessment.

Learning and Teaching Approach (tasks and activities designed to achieve learning outcomes):

The whole class is divided into groups of 4 or 5 students. Each group is to select a building construction site/project to form a common base for several given tasks. Briefing sessions via a ‘Project Guide’ will be conducted to familiarize students with the methodology and areas of consideration for each task. The tasks are to be performed in the given sequence and time frame. Supervision and consultation will be made available during the entire process. Mid-way through the project, an Interim Report is required from each group for assessment by the relevant supervisors. Towards the end of the Semester II, each group shall present their work in the form of a concise written report with full working details. A final assessment will then be made on overall group performance for this subject.

Assessment strategy (assessment of student performance resulting from learning tasks):

The subject will be assessed based on coursework only. Students have to produce two written reports (Interim Report and Final Report) covering written text, diagrams/drawings, photographs, design calculations, tables and charts necessary for explanation and illustration wherever appropriate. Also, supervisors will be assigned for each group, and in regular interval, they will be asked to report to their supervisors on the progress of work. Both aggregating grades and assigning grades are given to group effort and individual contribution in a group. This is to ensure that there will be no ‘non-performer’.
Typical assessment criteria include:

(a) Appropriate report structure
(b) Participation and contribution
(c) Relevant focus and depth
(d) Assumptions and information collection
(e) Analysis, synthesis and technical competence of construction methods
(f) Appropriateness of programme descriptions and durations
(g) Clarity and relevance of written report
(h) Logic of explanation
(i) Relevance and clarity of sketches
(j) Originality
(k) Comprehensive consideration of inter-relationships between site operations

**Reading List:**

Construction Journals, Databases, Statistics and Subject Module Texts

*Teaching activities: Lecture (LT)/Tutorial (TU)/Seminar (SM)/Drawing (DW)/Laboratory or Practical (LB)/
Studio (ST)/Workshop (WS)/Project (PJ)/Field Study (FS)/Guided Study (GS)/Visit (VS)*