SUV 1105 Land Plan Drawing

Hours Per Week			Hours per Semester	Weighted Total Mark	Weighted Exam Mark	Weighted Continuous Assessment	Credit Units
LH	PH	TH	CH	WTM	WEM	WCM	CU
3	0	3	45	100	60	40	3

Rationale/Course Description

The course introduces students to the basic concepts and principles of map plan drawing, classification, content and application of various types of maps. The interpretation of different types and map scales are also covered.

Objectives/Aims

• To provide an introduction to the basic concepts and principles of plan drawing, drawing instruments and equipments, application of various types of maps, interpretation of map scales.

Course Outline

1. Maps and Plans [5CH]
   - 1.1 Definitions and Concepts
   - 1.2 Classification of Maps
   - 1.3 Survey Drawings
   - 1.4 Draughting Techniques used in Cartography
2. Instruments, Tools and Materials used in Cartography [5CH]
   - 2.1 Drawing materials, types and characteristics
   - 2.2 Properties of a good drawing medium
3. The Geometric Framework of a map [10CH]
   - 3.1 Scales and Construction of a scale bar
   - 3.2 Grids and their construction
   - 3.3 Gratitule
   - 3.4 Neat lines
   - 3.7 Other map content
4. Drawing of Cadastral Plans [20CH]
   - 4.1 Lines and Lettering
   - 4.2 Dimensioning and Scaling
   - 4.3 Area computation
   - 3.7 Drawing Presentation and referencing
5. Computer Aided Drawing (CAD) [5CH]
   - 1.1 Introduction to CAD
   - 1.2 Benefits and Limitations of CAD
   - 1.3 Aspects of CAD
   - 5.3 Comparison between CAD and hand drawing

Learning Outcomes

The student is expected to achieve the following:

- Understand the applications of different types of maps.
- Interpret maps and present data that has been processed into information to form a map or plan.
- Be acquainted with the different drawing techniques, tools, materials and equipment.
- Appreciate the need for Computer Aided Drawing.

Method of Teaching/Delivery
The course will be conducted through lectures, tutorials, practical exercises and presentations.

Assessment Method
Assessment will be done through continuous assessment including drawing assignments, contributing 40% of the final mark. The final exam will contribute 60%.

Reading/reference materials

Paul Green (2005) The geometrical tolerancing desk reference: creating and interpreting ISO standard technical drawing; Elsevier/Newnes