

ELECTIVE MODULE FOR NORMAL (TECHNICAL) STUDENTS

Module Title: Model making

Duration: 30 hours
(30 P)

Pre-requisite: Nil

Aims of Module

- (i) To interpret the building drawings and construct the architectural model
- (ii) To plan the time schedule and to prepare accurately the various components of the finishes for the different building elements.

Learning Outcomes

At the end of the module, students will be able to:

- (a) Read and interpret the architectural plans
- (b) Plan and schedule the time for the completion of the project
- (c) Design the external area and draw the site layout on the base.
- (d) Cut out the materials for turfing, roads, pavement areas etc.
- (e) Paste the external components according to the site layout.
- (f) Cut out the walls, doors, windows for the building and boundary/ fences areas.
- (g) Create the windows and door panels
- (h) Paste the panels together
- (i) Cut out the roofing materials and paste them together
- (j) Create the landscape features – trees, shrubs, water fountain, benches, chairs etc.

Module Outline

Students will learn to interpret the architectural drawing and construct the 3D building model.

Outline of Module Syllabus

<i>Item</i>	<i>General Instructional Objective</i>	<i>Inst. Hours</i>
	Students should be able to:	
	<u>Practical</u>	
1	Select the various types of model, and the types and uses of basic model making hand tools such as cutters with disposable blades, steel rule, saws, files, pliers, tweezers, scoring knives and try squares	1
2	Select the types of materials and adhesives used for model making.	1
3	Prepare, cut and assemble a cube/prism with openings to	3

<i>Item</i>	<i>General Instructional Objective</i>	<i>Inst. Hours</i>
	Students should be able to: appropriate scale.	
4	Visualize the form of the model from a given set of building plans of a simple building.	3
5	Select and determine the method of construction and the materials to be used and prepare drawings for cutting of components.	2
6	Construct an architectural presentation model of residential building.	20
Total		30

Teaching and Learning Approaches

The teaching staff will explain the purpose of the presentation models used by architects, developers and marketing agents. They will be introduced to the various components of the building and will be taught how to interpret architectural plans. The students will be given a free hand to design the site layout that will meet the building requirements and plot their site design onto the base with its landscaped features.

They will be taught the methods and techniques of cutting and the preparation of the various material finishes. They will construct the building model, add in the door and window finishes, paint the building or added appropriate finishes together with all the landscaped features.

Completion Criterion

Students will be deemed to have successfully completed the module if they score the average marks of 50 for the 2 assessments.

Target Audience

Sec 3 / 4 Normal (Technical) students

Class Size

16 students per class

Duration

30 instructional hours

Certification

ITE Certification of Attendance will be issued upon successful completion of the course. ITE Certificate of Achievement will be issued upon students meeting the assessment criteria.