

GUJARAT TECHNOLOGICAL UNIVERSITY, AHMEDABAD, GUJARAT
COURSE CURRICULUM

Course Title: Basic Design
 (Code: 3315004)

Diploma Programmes in which this course is offered	Semester in which offered
Architectural Assistantship	First Semester

1. RATIONALE

Basic Design has its importance in introducing the student to free-hand drawing of object/ building, with the help of site visits, they are able to express their ideas through free-hand sketches. Knowledge of colour schemes & compositions helps the student to instill life into their drawings/sketches. Basic Design as a whole provides a strong platform to enable the student to develop creative ideas for their architectural design subject. All architectural designs are presented with the help of drawings and model. While drawings like plans, sections & elevations help one to understand the design two-dimensionally, models provide a three dimensional understanding. Hence knowledge and skill of making models with the help of different materials in different scales is very important for architectural presentation. This type of presentation is essential to understand and comprehend the planning & designing of a building.

2. COMPETENCY

The course content should be taught and implemented with the aim to develop different types of skills leading to the achievement of the following competency:

- i. **Develop model of a given building using different material to an appropriate scale.**

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				Total Marks
				Theory Marks		Practical Marks		
L	T	P	C	ESE	PA	ESE	PA	200
2	0	4	6	70	30	40	60	

Legends: L-Lecture; T – Tutorial/Teacher Guided Student Activity; P -Practical; C – Credit;; ESE - End Semester Examination; PA - Progressive Assessment.

4. DETAILED COURSE CONTENTS

Unit	Major Learning Outcomes	Topics and Sub-topics
Unit – I Types of lines	1.1 Draw types of lines	1.1 Types of lines and their expressions through use (weight age) in drawing
Unit– II Sketches	2.1 Prepare sketches from memory	2.1 Sketches of objects/scenes from memory
Unit– III Sketches of given objects	3.1 Prepare sketches of given objects	3.1 Sketches of given objects to different scale and proportion
Unit– IV Sketches of buildings	4.1 Prepare sketches of buildings	4.1 Sketches of buildings showing shades, shadows and texture
Unit– V Colour wheel, colour schemes, etc.	5.1 Prepare colour wheel, colour schemes, etc. 5.2 Learn visual and psychological effects of colour	5.1 Colour wheel, colour schemes, 5.2 Visual and psychological effects of colour
Unit – VI Colour composition	6.1 Prepare a colour composition	6.1 Colour composition
Unit – VII Two dimensional composition	7.1 Prepare a two dimensional composition 7.2 Finish it with different textures & colours	7.1 Two dimensional composition with different materials 7.2 Finishing with different textures & colours
Unit – VIII Models of geometrical objects	8.1 Prepare models of geometrical objects 8.2 Use various materials 8.3 Prepare given geometrical objects	8.1 Models of geometrical objects 8.2 Various materials like cardboard, mount board, cork sheet, thermocole 8.3 Preparation of geometrical objects
Unit – IX Models of buildings	9.1 Prepare models of buildings	9.1 Prepare models of given building components 9.2 Prepare a model of a small building to given scale. 9.3 Prepare models showing landscaping, site detailing, etc.

5. SUGGESTED SPECIFICATION TABLE WITH HOURS & MARKS (THEORY)

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total
1.	Types of lines	2	1	2	2	5
2.	Prepare sketches from memory	4	2	4	4	10
3.	Prepare sketches of given objects	4	2	4	4	10
4.	Prepare sketches of buildings	4	2	4	4	10
5.	Understand colour wheel, colour schemes, etc.	2	1	2	2	5
6.	Prepare a colour composition	2	1	2	2	5
7.	Prepare a two dimensional composition	2	1	2	2	5
8.	Prepare sketches of geometrical objects	2	0	1	4	5
9.	Prepare sketches of given building and its components	6	0	5	10	15
Total		28	12	28	30	70

Legend:

R = Remembrance; U= Understanding; A= Application and above levels (Revised Bloom's Taxonomy)

6. SUGGESTED LIST OF ASSIGNMENTS (PRACTICAL)

The assignments should be properly designed and implemented with an attempt to develop different types of skills leading to the achievement of the competency.

S. No.	Unit No.	Assignments (Practical)
1	I	Prepare sketches incorporating the lines and shapes, (MIN. 5 Sketches)
2	II	Prepare sketches of trees, human figures, vehicles, etc (MIN. 5 Sketches) and minimum 3 sketches of real life situation like a scene of bus stand, a tea shop, a milk booth, a view outside an ATM booth, etc.
3	III	Prepare sketches of objects and furniture. (MIN. 5 Sketches)
4	IV	Prepare sketches of building (MIN. 5 Sketches)
5	V	Draw a colour wheel indicating colour schemes.
6	VI	Prepare a minimum of 5 colour compositions.
7	VII	Prepare a minimum of 5 compositions using various media.
8	VIII	Prepare sketches and models of geometrical composition having 4 to 5 geometrical solids
9	XI	a) Prepare one model of building component like staircase, water tank, balcony, porch, entrance, any other, etc. b) Prepare one model of small building showing landscape, parking, etc

Note: The above assignments are for guideline only. The remaining practical hours are for revision and guidance.

7. SUGGESTED LIST OF PROPOSED STUDENT ACTIVITIES

Following is the list of proposed student activities like: course/topic based seminars, internet based assignments, teacher guided self learning activities, and course/library/internet/lab based Mini-Projects, etc. These could be individual or group-based.

- i) Visit historical sites and draw sketches of monuments and surroundings
- ii) Interactive sketching workshops with other institutes
- iii) Visit art exhibitions

8. SUGGESTED LEARNING RESOURCES

A. List of Books

S.No.	Author	Title of Books	Publication/year
1	Frank Allison Hays	Rendering with Pen & Ink	Architecture Book Pub. Co./latest
2	Hashmi A.H.	Drawing & Painting Course	Pustak Mahal Delhi/latest
3	Peter Parrington	Drawing for Beginners	Herper Collins Publication/latest

9. COURSE CURRICULUM DEVELOPMENT COMMITTEE

Faculty Members from Polytechnics

- **Prof. Bhaskar J. Iyer**, H.O.D Architecture, Govt. Polytechnic, Vadnagar,
- **Prof. (Smt.) U.U. Anerao**, H.O.D Architecture, Govt. Polytechnic for Girls, Ahmedabad
- **Smt. P.A. Trambadia**, Lecturer in Architecture, Govt. Polytechnic for Girls, Ahmedabad
- **Shri. N.M. Chhatwani**, Lecturer in Architecture, Govt. Polytechnic for Girls, Ahmedabad

Coordinator and Faculty Members from NITTTR Bhopal

- **Prof. M.C.Paliwal**, Associate Professor, Dept. of Civil Engg, NITTTR, Bhopal.