

AR-118 BASIC DESIGN :: C-16

Subject Title	:Basic Design
Subject Code	:AR-118
Studio Periods/Week	:9
Studio Periods/Semester	:162
Credits	:9
Internal Assignments & Mids	:200 Marks
External Examinations	:200 Marks
Total Marks	:400 Marks
Duration of Exam	:6 (3+3) Hrs (University Drawing Exam)

TIME SCHEDULE

Sl. No	Major Topics	No. of periods	Weightage of Marks End Exam	essay questions End Exam
1	Unit – I Introduction to design	20	25	1
2	Unit – II (Elements of design)	24	50	2
3	Unit – III (Developing compositions in two dimensional designs)	24	25	1
4	Unit – IV (Concepts of geometry)	24	25	1
5	Unit – V (Developing compositions in three dimensional designs)	24	25	1
6	Unit – VI (Colour theory & Theoretical inputs to be followed)	24	25	1
7	Unit – VII (Study of ornamentation in architectural design)	22	25	1
Total:		162	200	8

Course Overview:

Basic Design provides the framework for understanding design as a new language by sensitizing students to the conceptual, visual and perceptual issues involved in the design process.

Objectives of the Course:

To impart an understanding of principles of composition, and to appreciate design and design elements. Exercises complement the lectures and ensure that the students learn to develop a series of compositions in two and three dimensions.

Expected Skills / Knowledge Transferred:

The Course prepares ground for the students to gain an understanding into the fundamental issues in design and develop the skill to create solutions for simple elements of building.

Course Contents:

Unit – I

Introduction to design –importance of design; Study and appreciation of design examples from natural and man-made environments

Unit – II

Elements of design: point, line, shape, form, space, texture, value, colour and material; Introduction to the principles of composition: unity, balance, symmetry, proportion, scale, hierarchy, rhythm, contrast, harmony, focus, etc; Application of the principles of composition in two dimensional compositions; Transformations in two dimensions: shapes and patterns; use of grids in creating repetitive patterns; Principles of composition-using grids, symmetrical /asymmetrical, rule of thirds, center of interest etc. Explorative exercises in two dimensional compositions.

Unit - III

Developing compositions in two dimensional designs like- logos, cover page, collage, mural, floor patterns, grills, railings, gates etc.

Unit - IV

Concepts of geometry –different three dimensional forms, primitive forms and understanding the behavior when combined- Transformations to three dimensional forms; Explorative exercises in three dimensional compositions.

Unit - V

Developing compositions in three dimensional designs like- Entrances, gateways, portal, compound walls built-in furniture etc.

Unit - VI

Colour theory, color wheel, primary, secondary, tertiary colors, color schemes, color value and intensity.

Theoretical inputs to be followed by exercises to develop the ability to translate abstract principles into two and three dimensional compositions.

Unit - VII

Study of ornamentation in architectural design; Different types of ornamentation in buildings; Study and evaluation of artifacts and historic examples and their applicability

Exercises in related to documentation of artifacts at historical sites and to understand them with respect to the surround environment; to transform the designs to present context or usage.

Reference books:

- **Wucius, Wong.** Principles of two Dimensional Design. Van Nostrand Reinhold 1972.
- **Maier Manfred** Basic Principles of Design, Vol.1, 2, 3 & 4, Van Nostrand Reinhold, NY. (1977)
- **Ching, Francis D.K.** Architecture: Form, Space, and Order, 2nd ed. Van Nostrand Reinhold, New York, 1996.
- **Hanks, A. David.** Decorative Designs of Frank Lloyd Wright, Dover Publications, Inc. New York, 1999.
- **Hepler, E. Donald, Wallach, I. Paul.** Architecture Drafting and Design, 3rd ed. McGraw-Hill Book Company, New York, 1977.
- **Itten, Johannes.** Design and Form: The basic course at the Bauhaus, Thames and Hudson Ltd., London 1997.
- **Krier, Rob.** Architectural Composition, Academy Editions, London, 1988.
- **Meiss, Pierre Von.** Elements of Architecture: From form to place, E and FN Spon, London, 1992.

- **Pipes, Alan.** Drawing for 3-Dimensional Design. Thames and Hudson Ltd., London 1990.
- **Shibikawa, Ikuyoshi and Takahashi, Yumi.** Designers Guide to Colour.
- **Smithies, K.W.** Principles of Design in Architecture. Chapman and Hall, 1983.