

AR 112 – PRINCIPLES OF ARCHITECTURE :: C-16

Subject Title	- Principles Of Architecture
Subject Code	- AR-112
Periods/Week	-2
Periods/Semester	- 36
Credits	- 2
Internal Assignments & Mids	- 50 Marks
External Examinations	- 50 Marks
Total Marks	- 100 Marks
Duration of Exam	- 3Hrs (University Exam Theory)

TIME SCHEDULE

Sl. No	Major Topics	No. of Periods	Weightage of Marks	Short Questions	Essay Questions
			End Exam	End Exam	End Exam
1.	Unit – I (A brief description of architecture)	6	18	1	2
2.	Unit – II (The concept of beauty)	6	10	1	1
3.	Unit – III (Indoor space, outdoor space)	8	10	1	1
4.	Unit – IV (Proportion, its application and advantages in architecture)	8	18	1	2
5.	Unit – V (Ordering principles, their need and application in architecture)	8	18	1	2
Total:		36	74	5	8

- Note:**
1. Duration of examination is for 3 hours Theory Examination
 2. Part A: 5 questions – each question carries 2 marks, all 5 to answer and no choice
 3. Part B: 5 questions have to be answered out of 8 questions each question carries 10 marks (3 are choice)

Course Overview:

Principles of 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 inculcate the innate sense of analyzing and interpreting the elements of design. Understanding of composition, form, space and void to ensure the learning necessary to evolve and reproduce in both 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

A brief description of architecture: Architecture as an occupation. Architecture compared to visual and temporal arts. Architecture and science and technology: Architecture and social science. The work of an architect compared to that of an artist, technologist and a designer/craftsman, scope of architecture.

Unit II

The concept of beauty: Philosophical and psychological view. Subjective and objective aspect of it. Difference in the concept of beauty due to social, regional and temporal variations. Basic principles of visual perception. Form and its visual properties. Visual qualities of five Basic geometric forms. Additive forms and subtractive forms.

Unit III

Indoor space, outdoor space: the concept of space in buildings. The relationship between man and space. Defining spaces and the degree of enclosure. Organisation of spaces, fenestration, and character of facade, enclosure and internal spaces. Articulation of form.

Unit IV

Proportion, its application and advantages in architecture: Application of order, golden section, modular with examples from history of architecture. Scale, its application in architecture and advantages. Application of human scale and generic scale in architecture.

Unit V

Ordering principles, their need and application in architecture: Various ordering principles available and their application in buildings with examples from history of architecture. The use of colors in architecture, principles of colours and their application and advantages in buildings.

REFERENCES

- ARG Isaac, " Approach to architectural Design", Butter worth & Co. Ltd., London, 1977.
- Anthony J.Catanese & James C. Snyder, "Introduction to architecture," McGraw Hill Books Co., Newyork, 1988.
- Francis D. K. Ching, "Architecture: Form, Space and Order," Wiley; 3rd Edition edition (3 August 2007)