

15AR101	<b>PRINCIPLES OF ARCHITECTURE</b>				<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
	Total contact hours - 30				<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>
	Prerequisite							
	Nil							
<b>PURPOSE</b>								
To instill a broad understanding about architecture in students of civil engineering								
<b>INSTRUCTIONAL OBJECTIVES</b>								
1.	To create awareness about design criteria, building bye laws, development control rules & zoning regulations. Introduction to the basic architectural principles & imparting knowledge about building							
2.	To introduce the basic architectural principles in functional planning							
3.	To impart knowledge about building services .							

#### UNIT I-PLANNING ASPECTS & REGULATIONS

(10 hours)

Building types & design criteria - Space standards for residential, commercial & institutional categories. Building bye laws applicable for approval by the local governing body. Development control rules for Chennai metropolitan area.

#### UNIT II-ARCHITECTURAL PRINCIPLES

(10 hours)

Introduction to architecture - elements of architecture - primary forms - organizing principles - proportion, scale, balance, symmetry, hierarchy, axis with building examples from historical & contemporary architecture.

#### UNIT III-BUILDING SERVICES

(10 hours)

Integration of services in buildings - water supply & plumbing layout for a residential building - elevators & escalators - planning & installation - basic components of the electrical system for a residence - typical electrical layout diagram. Lay out of external services -water supply- sewage disposal-electrical cabling.

#### TEXT BOOKS

- Francis .D.K Ching- "*Architecture: Form Space & Order*" Van Nastrand Reinhold, 1996.
- Vaidyanathan .G, Kulasekaran .I, Sathishkumar .G, "*Building planning & construction companion*", Edifice Institute of Building services publication, 2002.

#### REFERENCES

- Joseph De chiara & John Callendar – "*Time saver standards for building types*", III Edition - Mc Graw Hill, 1990.
- National Building Code, "*Bureau of Indian Standars*", New Delhi, 2005.

<b>15AR101 PRINCIPLES OF ARCHITECTURE</b>												
<b>Course designed by</b>		<b>Department of Architecture</b>										
1.	Student Outcome	a	b	c	d	e	f	g	h	i	j	k
		X				X			X			
2.	Mapping of instructional objectives with student outcome	1-3				1-3			1-3			
3.	Category	General (G)		Basic Sciences(B)		Engineering Sciences and Technical Arts (E)			Professional Subjects (P)			
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4.	Approval											