



## Semester - 1

						Continuous Evaluation Marks					End Semester Exam Marks		End Semester Exam Passing Marks		Total Marks
Code	Subject	Credit	Lect	S	Field Work	I	J	Sub	Total	Passing	T/D	V/P	T/D	V/P	
01101101	Architectural Design -I	8	2	4	2	20	60	20	100	50	-	-	-	-	100
01101102	Building Materials & Construction Technology -I	5	2	2	1	20	-	30	50	25	50	-	25	-	100
01101103	Architectural Graphics Skills -I	6	1	4	1	-	-	50	50	25	-	50	-	25	100
01101104	Evolution of Architecture -I	3	1	1	1	20	-	30	50	25	50	-	25	-	100
01101105	Architecture and Environment -I	3	2	0	1	20	-	30	50	25	50	-	25	-	100
01101106	Elements of Architecture -I	3	1	1	1	20	10	20	50	25	50	-	25	-	100
01101107	Related Study Programme -I	2	0	0	2	-	40	60	100	50	-	-	-	-	100
	<b>Total</b>	<b>30</b>	<b>9</b>	<b>12</b>	<b>9</b>				<b>450</b>	<b>225</b>			<b>100</b>	<b>25</b>	<b>700</b>

**Lect-** Lectures, **Field Work** - Field Work, **S** - Studio, **I** - Internal, **J** - Jury, **Sub** - Submission, **T/D** - Theory, **V/P** - Practical  
**Theory Passing % :50 Practical Passing % : 50**

# PARULUNIVERSITY - FACULTY OF ARCHITECTURE

Department of Architecture

SYLLABUS FOR 1st Sem B.ID PROGRAMME

Architectural Design -I (01101101)

Type of Course : B.ID

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
L	T	P		External		Internal			
				Theory	Practical	Theory	*C.E.	Practical	
2	2	4	8	-	-	40	-	60	100

L-Lectures;T-Tutorial;P-Practical; C.E.-Continuous Evaluation

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	Principles and elements of visual composition:	25%	32
2	Exploring colour scheme and its application on architectural forms and spaces:	10%	12
3	Study of textures:	5%	6
4	Nature study:	15%	19
5	Understanding of basic shelter and its types:	20%	26
6	Study of anthropometry and its co-relevance with spaces:	25%	33

\*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

Reference Books:

1. FORM, SPACE AND ORDER  
Francis D.K Ching,; John Wiley & Sons
2. Design Evolution:A Handbook of Basic Design Principles Applied in Contemporary Design  
Tim Samara; Rockport Publishers
3. Design fundamentals:Notes on Visual Elements and Principles of Composition  
Rose Gonnella, Christopher Navetta and Max Friedman, Peachpit Press
4. Geometry of Design:Studies in Proportion and Composition  
Kimberly Elam; Princeton Architectural Press

## Building Materials & Construction Technology -I (01101102)

Type of Course : B.ID

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
L	T	P		External		Internal			
				Theory	Practical	Theory	*C.E.	Practical	
2	1	2	5	50	-	50	-	-	100

L-Lectures;T-Tutorial;P-Practical; C.E.-Continuous Evaluation

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>Mud/earth:</b> Earth construction techniques (Adobe, Cob, Rammed Earth, Pressed Brick, Wattle & Daub).	25%	20
2	<b>Bricks:</b> Composition of good brick earth, manufacturing of bricks, classification of bricks, types of bricks, brick-bonds (English, Flemish, Double Flemish, Rat trap, Herring bone), brick arches (Flat arch, Segmental arch, Roman arch, Gothic arch, 3 Centred arch, 5 Centred arch).	30%	24
3	<b>Bamboo:</b> Properties of Bamboo and various techniques used for bamboo construction.	25%	20
4	<b>Stone:</b> Classification and types of stone, types of stone masonry, structural and non-structural usage of stone.	20%	16

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. Construction of Buildings R.  
Barry, Wiley - Blackwell
2. Building construction  
W.B McKay, Pearson
3. Building construction Handbook  
Roy Chudley and Roger Greeno
4. Architecture and Design :Bamboo Construction & Design: Design Guide & 59 Case Study Eduard Broto; Leading International Key Services Barcelon
5. Bamboo in construction: Anintroduction  
D.L Jayanetti and P.R Follett; International Network for Bamboo and Rattan (INBAR) Technical Report15
6. Designing and building with bamboo  
J.J.A Janssen; International Network for Bamboo and Rattan (INBAR) Technical Report20
7. Earth Architecture  
Ronald Rael; Princeton Architectural Press
8. Building Construction Illustrated  
Francis D.K Ching, Wiley

## Architectural Graphics Skills -I (01101103)

Type of Course : B.ID

Prerequisite:

Rationale:

### Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
L	T	P		External		Internal			
				Theory	Practical	Theory	*C.E.	Practical	
1	1	4	6	-	50	50	-	-	100

L-Lectures;T-Tutorial;P-Practical; C.E.-Continuous Evaluation

### Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	Sketching (Object drawing, landscape, vehicles, buildings, in relation to human scale and proportion):	5%	4
2	Basic rendering and colouring techniques.:	5%	2
3	Basic drafting, symbols and lettering.:	10%	10
4	Point and Lines (straight and curvilinear lines). :	10%	10
5	Principles of plane geometry, scales.:	10%	10
6	Orthographic projection of points, lines, planes and solids:	10%	10
7	Solid geometry: sections of solids, simple and complex solids.:	10%	10
8	Surface development of solids -paper models and drawings.:	10%	10
9	Auxiliary projections as an extension of orthographic projections.:	10%	10
10	Applications to sections of solids to obtain true shapes of surface s in section.:	10%	10
11	Interpenetration of geometric solids and conditions of Intersections.:	10%	10

### \*Continuous Evaluation:

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

### Reference Books:

1. Architectural Graphics  
Francis D.K Ching, John Wiley
2. Engineering Drawing  
N.D.BHATT & V.M.PANCHAL; CHAROTAR PUBLISHING HOUSE
3. Rendering with Pen & Ink  
Robert Gill, Thames & Hudson Ltd.
4. Visualization Techniques  
Richard B. Leinbach, Prentice Hall
5. Perspective for Architecture  
Georg Schaarwachter, F.A Praeger

## Evolution of Architecture -I (01101104)

Type of Course : B.ID

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
L	T	P		External		Internal			
				Theory	Practical	Theory	*C.E.	Practical	
1	1	1	3	50	-	50	-	-	100

L-Lectures;T-Tutorial;P-Practical; C.E.-Continuous Evaluation

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>Pre-historic age:</b> Stone Age (Palaeolithic, Mesolithic and Neolithic Age), Proto historic period and Historic period	10%	4
2	<b>Four Oldest River Valley Civilizations:</b> o Indus Valley Civilization (alongwith Vedic Planning principles) o Mesopotamian Civilization o Egyptian Civilization o Chinese Civilization	60%	30
3	<b>Greek Civilization:</b>	15%	7
4	<b>Roman Civilization:</b>	15%	7

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. Ascent of Man  
Jacob Bronowski, RHUK
2. A World History of Architecture  
Michael W. Fazio, Marian Moffett and Lawrence Wodehouse, Laurence King Publishing
3. Early civilizations  
Egypt ,Mesopotamia ,the Aegean (HistoryofArt&Architecture) by Walther Wolff ,Herbert Press Ltd.
4. World History  
Ancient Civilizations by Mc Dougal Little ,McDougal Littel
5. Greek Architecture  
A.W Lawrence, Yale University Press
6. Principles of Roman Arc hitecture  
Mark Wilson Jones,; Yale University Press

## Architecture and Environment -I (01101105)

Type of Course : B.ID

Prerequisite:

Rationale:

Teaching and Examination Scheme:

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
L	T	P		External		Internal			
				Theory	Practical	Theory	*C.E.	Practical	
2	1	0	3	50	-	50	-	-	100

L-Lectures;T-Tutorial;P-Practical; C.E.-Continuous Evaluation

Contents:

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>Environment:</b> Natural (Ecological) , Built (Man-made/Architectural) and Social (Societal/Communal)	25%	13
2	<b>Architecture:</b> Role of Architecture in governing creation and perception of a space	15%	7
3	<b>Culture as a determinant of Architecture:</b> To be learnt through the study of Rural and Urban areas - Old town/city areas, Religious monuments, etc.	30%	14
4	<b>Community &amp; Climate a determinant of Architecture:</b> Understanding Regional approaches in the application of the principals of climate control in the Design of Buildings through the study of Traditional House Forms & Settlement pattern in various tropical climates. (Basic vernacular shelters from various regions such as Himalayan, Deserts, Coasts, Forests, etc.)	30%	14

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. Traditional Architecture: House form of the Islamic community of Bohras in Gujarat Madhavi Desai
2. Hand made Houses & Other Buildings: The world of Vernacular Architecture John May and Anthony Reid, Thames & Hudson
3. Traditional Architectural Forms of Malabar Coast Ashalatha Thampuran, Vastuvidyapratishthanam Academic Centre
4. Vistara: The Architecture of India - Catalogue of the Exhibition edited by Carmen Kagal; The Festival of India; Enter Edition
5. Prathaa: Kath-Khuni Architecture of Himachal Pradesh Bharat Dave, Jay Thakkar and Mansi Shah; SID Research Cell, School of Interior Design, CEPT University; First

**Elements of Architecture -I (01101106)**

**Type of Course :** B.ID

**Prerequisite:**

**Rationale:**

**Teaching and Examination Scheme:**

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
L	T	P		External		Internal			
				Theory	Practical	Theory	*C.E.	Practical	
1	1	1	3	50	-	20	-	30	100

**L-Lectures;T-Tutorial;P-Practical; C.E.-Continuous Evaluation**

**Contents:**

Sr.	Topic	Weightage	Teaching Hrs.
1	<b>Introduction to tangible and intangible attributes of elements in Architecture:</b>	20%	10
2	<b>Design Principles:</b> Understanding design principles like Rhythm, Harmony & Character, Symmetry & Asymmetry, Balance, Hierarchy, Centrality, Radiality, Linearity, etc. through study of various design compositions by Precedents in architecture.	40%	19
3	<b>Elements &amp; Aspects of Architecture:</b> To understand the role of Architecture in creation of a physical enclosure/shelter/built environment with respect to the following: Time, Space and People 2. Form, Space and Order	40%	19

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.

**Reference Books:**

1. FORM, SPACE AND ORDER  
Francis D.K Ching,; John Wiley & Sons
2. Precedents in Architecture  
Analytic Diagrams ,Formative Ideas, and Partis by Roger H. Clark and Michael Pause, Wiley
3. Concepts of Space in Indian Traditional Architecture Yatin Pandya; Mapin Publishing

**Related Study Programme -I (01101107)**

Type of Course : B.ID

Prerequisite:

Rationale:

**Teaching and Examination Scheme:**

Teaching Scheme (Hrs./Week)			Credit	Examination Scheme					Total
L	T	P		External		Internal			
				Theory	Practical	Theory	*C.E.	Practical	
0	2	0	2	-	-	60	-	40	100

L-Lectures;T-Tutorial;P-Practical; C.E.-Continuous Evaluation

**Contents:**

Sr.	Topic	Weightage	Teaching Hrs.
1	Mud construction, Manufacturing of Bricks in Kilns and its properties, Manufacturing of Cement and its properties, ongoing construction sites, etc.:	50%	16
2	Vernacular and Traditional Structures:	30%	10
3	Heritage Monuments:	20%	6

**\*Continuous Evaluation:**

It consists of Assignments/Seminars/Presentations/Quizzes/Surprise Tests (Summative/MCQ) etc.