

GANPAT UNIVERSITY									
FACULTY OF ARCHITECTURE DEISGN & PLANNING									
Programme	Bachelor of Architecture				Branch/Spec.	INSTITUTE OF ARCHITECTURE			
Semester	III				Version	2.0.0.0			
Effective from Academic Year	2020-21				Effective for the batch Admitted in	June 2019			
Subject code	2IIIA01ADD	Subject Name			Architectural Design & Detailing III				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	2	-	4	2	8	Theory	-	-	-
Hours	2	-	6	2	10	Practical	40	60	100
Objective:									
To Understand, Analyse and apply the building materials' basic properties of building material to create Built environment & architectural form at the same time demonstrate ability to create certain ambiance and scale as resultant of material and structure									
Learning Outcome:									
LO1: Thorough understanding of particular material in terms of properties and behaviour LO2: Explore the joinery and construction details with response of the particular material LO3: Derive most appropriate forms using specific material keeping intact its core behavioural properties. LO4. Develop and apply the studio program effectively in to the derived form for the given materials									
CONTENT & TEACHING UNITS									
Unit	Content								Hrs
A	Unit 1: Explore the variety of materials <ul style="list-style-type: none"> List out various building materials to be exercised Understand and list out various physical, tangible non tangible properties of the materials. Prepare SWOT chart for comparative analysis Select any one material per group of students 								30
B	Unit 2: Case study of those materials <ul style="list-style-type: none"> Make a case study of the given materials for a small or medium scale building Observe use of material and joinery-construction details. Learn the limitations and scope of particular materials for a specific form and structure 								30
C	Unit 3: Prepare a detailed program for a project to be designed with the identified site <ul style="list-style-type: none"> A single or 2-3 typology of building project to be identified to execute as a studio project Site shall be identified for the project and go through the site analysis As per program prepare concepts for the project with given Material Undergo design process to come out with final Design 								50
D	Unit 4: Final Drawings and Models <ul style="list-style-type: none"> Prepare and submit all Floor plans,Layout, Elevation and Sections drawings 								50

	<ul style="list-style-type: none"> • Provide all working details for specific design done by an individual students for the material subscribed by them • Prepare and submit Study models and full project design model along with the site. 	
Text Books		
1	NA	
Reference Books		
1	Drawing & Designing with confidence – A step by step guide- Mike W.Lin	
2	Designing with models : A Studio guide to making & using architectural models - CrissB.Mills	
3	Time saver standards for building types - DeChiara and Callender	
4	Neufert Architect's data - BousmahaBaiche& Nicholas Walliman	
5	Residential Buildings by Master designers & Vernacular master pieces.	
6	Space Planning Basics - Mark Karlen	
7	House Form and Culture - Rapoport, Amos.	
8	Form, Space & Order-Francis D.K. Ching .	
9	50 Beautiful house in india, vol-2 - Sei.	
10	Design in Architecture –Geoffrey Broadbent.	
11	25 Tropical Houses in Singapore and Malaysis - Mcgillick Paul.	
12	A Pattern language- Christopher Alexander.	

Note:

- (I) Exercises related each unit has to be carried out distinctively.
- (II) Relevant case studies and literature studies can be given by the studio teachers and report has to be compiled by the students.
- (III) The portfolio covering the above topics shall be presented for viva voce.

NOTE: The portfolio covering the above topics shall be presented for term work at end of semester.

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Semester		III			Version		2.0.0.		
Effective from Academic Year			2020-21		Effective for the batch Admitted in			June 2019	
Subject code		2IIIA02BMC	Subject Name		Building Materials and Construction - III				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	2	-	2	2	6	Theory	40	60	100
Hours	2	-	3	2	7	Practical	-	-	-
Objective:									
<ul style="list-style-type: none"> To focus is on materials, their properties and applications, and their intrinsic relationship to structural systems and environmental performance. To develop application based understanding of: the relationship of materiality to construction systems and techniques. Understanding "Timber" as a building material and its application in a building along with its techniques used in different forms and joinery details of construction. 									
Learning Outcome:									
<p>LO1: Understanding different elements of a building where timber can be used as material.</p> <p>LO2: Recognizing timber as a traditional building materials and it's evolution with time.</p> <p>LO3: Understanding application of timber in different parts of a building and construction techniques and joinery details.</p>									
CONTENT & TEACHING UNITS									
Unit	Content								HRS
1	General introduction to building elements where timber can be used as a material for construction. Different forms of timber, its properties, strength and weakness. Evolution of use of timber with time and it's extraction from wood along with manufacturing process of it.								12
2	Learning different methods of construction used in construction of different types of timber doors and windows, their standard sizes and details of construction.								18
3	Understanding of basic structural system and construction technique to manufacture different types of timber roofs, walls and floors on ground and above them along with their construction and technical details.								30
4	Knowledge of compounds walls and gates made out of wood and the process behind its construction. Also, giving a brief introduction about processed wood.								12
5	Understanding construction techniques and details of different types of staircase made from timber and other structural and nonstructural elements like wall paneling and false ceiling constructed from timber.								24
Text Books									
1	NA								

Reference Books	
1	Construction of Building Vol.-I- R.Berry
2	Building Construction Metric Vol.-I to IV- W.B.Mckay
3	Construction Technology Vol.-I-Chudley
4	Building Construction Illustrated-FransisD.K.Ching.
5	Fundamentals of Building Construction - Allen Edward

Note:

- Minimum one plate on each construction topic and study of material in the form of portfolio.
- Hands on session to be conducted to execute wall masonry with different materials in construction yard.
- Site visits to manufacturing units of brick, stone quarries, construction sites and case studies of vernacular construction systems to be arranged by studio teachers and report to be compiled by students.
- Market survey of materials should be carried out by students.

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Semester	III				Version	2.0.0.0			
Effective from Academic Year	2020-21				Effective for the batch Admitted in	June 2019			
Subject code	2IIIA03HOA		Subject Name	History of Architecture-II					
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	2	-	-	-	2	Theory	40	60	100
Hours	2	-	-	-	2	Practical	-	-	-
Objective:									
<ul style="list-style-type: none"> • To Learn the evolution of world architecture took place at different region in different era of time line in a chronological order • To study and understand cultural, social, geographical aspects which influenced and played vital role for Egypt, Greek, Roman, Gothic architectural evolution • To Study various architectural elements, building techniques of specific architectural style. • Overview how a town planning was carried out within geographical limits and requirements of those regions and community 									
Learning Outcome:									
<p>LO1:To understand architecture as evolving within specific cultural contexts including aspects of politics, society, religion and climate.</p> <p>LO2: Understanding of derivation of specific architectural elements construction techniques for local materials availability which became prominent architecture feature of those architectural style.</p> <p>LO3: Refinement of construction techniques with scientific approach over a period of dynasties and centuries</p>									
CONTENT & TEACHING UNITS									
Unit	Content								HRS
A	<p>Egyptian architecture</p> <ul style="list-style-type: none"> • The belief of life after death and cultural values of Egypt in that particular era • Evolution of Mastabas • Start of formation of Pyramids over number of dynasties • Study of Construction techniques and materials for building pyramids and internal parts of pyramids in details .Finest Examples: Great pyramid of Cheops(Khufu),step pyramid of Sakkara • Descriptions and details of Various monuments like sphinx and temple of karnek 								8
B	<p>Greek Architecture</p> <ul style="list-style-type: none"> • Overall development of Greek architecture with gradual rise of prominent Greek column orders: Doric, Ionic, Corinthian. In-depth Study of these column orders. • Scientific approach of optical correction in shape, size and allocation of these columns • Acropolis of Athens and its important buildings constructed and redeveloped over a period of time • The finest example of Greek Architecture: Parthenon, Agora 								8

C	<p>Roman Architecture</p> <ul style="list-style-type: none"> • How the legacy of Greek architecture brought forward to Roman Style of Architecture. • Geographical study and understanding of Roman Empire along with sensible approach towards town Planning with introduction of Public baths, Aqua Ducts, Squares or Nodes at intersections of axial roads • Specific architectural elements like semicircular arches columns, symmetrical design and materials like fine lime mortar, Concrete, Dressed stone Masonry developed and successfully used by Roman • Examples: Pantheon, Coliseum 	10
D	<p>Gothic Architecture</p> <ul style="list-style-type: none"> • Entirely new approach towards the building design where in Priest were considered as an architects of their churches, Study of Overall scientific approach and innovation of completely new and unique building techniques and elements • Rose windows • Pointed Arches • Flying buttresses • Ribbed Vault • Famous and finest Example: Notre dame Paris 	6
Text Books		
1	A History of Architecture - Sir Banister Fletcher	
2	World History of Architecture - Muffet	
3	A global history of Architecture - Francis D.K. Ching	
Reference Books		
1	Understanding Architecture: Its elements, history and meaning - Leland M Roth	
2	Ancient Architecture: History of World Architecture – S. Lloyd and H.W. Muller	
3	Man the Builder - Gosta, E. Samdstrom	
4	Understanding Architecture - Bussagh; Marco	

NOTE:

- (I) Assignments to include study of concepts relating to cultural and religious beliefs, structure, climatic interfaces and integration of all these in the resultant forms.
- (II) Models of architectural elements and various monuments, buildings, analytical studies and paper presentations individually or in groups.

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Effective from Academic Year		2020-21			Effective for the batch Admitted in		June 2019		
Subject code	2IIIA04SDS		Subject Name		Structural Design and Systems III				
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	2	-	-	-	2	Theory	40	60	100
Hours	2	-	-	-	2	Practical	-	-	-
Objective:									
<ul style="list-style-type: none"> Observe and evaluate how structural resolutions are important in realization of architectural design concept. At this stage, students shall be exposed to applications of principles of mechanics of rigid and deformable bodies in engineering applications. Understand basic properties of solids and sections which influence their behaviour under the effect of various types of forces on fixed beam, Arches. 									
Learning Outcome:									
LO1: Apply principles of statics to determine reactions & internal forces in statically determinate structures. LO2: Students are taught Determine displacements of statically determinate structures. LO3: Determine stresses due to axial & eccentric loading. LO4: Determine buckling load for columns & struts with different end conditions.									
CONTENT & TEACHING UNITS									
Unit	Content								Hrs
A	Fundamentals Of Statically Determinate Structures: Types of statically determinate & indeterminate structures, static and kinematic indeterminacy, stability of structures, principle of superposition, Maxwell's reciprocal theorems. Computation of internal forces in statically determinate structures such as plane truss, plane frame, grids.								8
B	Shear Stress: Calculation of shear stress for simply supported & cantilever beams of various cross sections like T, L, I, O, Rectangle, Hollow sections etc. DIRECT AND BENDING STRESSES: Members subjected to eccentric loads, middle third rule, kernel of section, chimney subjected to wind pressure, retaining walls. COLUMNS AND STRUTS: Buckling of columns, different end conditions, effective length, least radius of gyration, Euler's and Rankine's formulae, columns with initial curvature, eccentrically loaded columns, columns with lateral loading.								8

C	Fixed Beams & Moment Distribution Method: Computation of fixed-end actions for various types of loads and secondary Effects using basic principles, beams of varying moment of inertia. Analysis of propped cantilever beams & beams using Moment distribution method.	8
D	Arches: Calculation internal forces in three hinge arches with circular and parabolic shapes subjected to various types of loading.	8
Text Books		
1	Mechanics of Structures Vol-I; Junarkar S.B. & Shah H.J.; Charotar publishing house, Anand	
2	Strength of Materials and Theory of Structures; Vol. II - B.C.Punmia	
Reference Books		
1	Mechanics of Structures Vol-I; Junarkar S.B. & Shah H.J.; Charotar publishing house, Anand	
2	Wang C. K.; Intermediate Structural Analysis; Tata McGraw Hill book Company, New Delhi	
3	Elements of Civil Engineering (IV Edition) - S. S. Bhavikatti	
4	Popov E.P.; Engineering Mechanics of Solids; Prentice Hall of India, New Delhi	
5	Gere & Timoshenko; Mechanics of Materials; CBS Publishers & Distributors, Delhi	
6	Mechanics of Structures - Prof.Jurnakar	
7	Strength of Materials and Theory of Structures; Vol. II - B.C.Punmia	
8	Hibbler R C; Mechanics of Materials; Pearson Education	
9	Strength of Materials - R.K. Rajput	
10	Structural Engineering for architecture - A.P. Dongre	

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Effective from Academic Year			2020-21		Effective for the batch Admitted in			June 2019	
Subject code		2111A05BS		Subject Name		Building Services-I			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	2	-	-	-	2	Theory	40	60	100
Hours	2	-	-	-	2	Practical	-	-	-
Objective:									
To Understand analyse and apply all basic Building services like Electrification, Lighting, communication, Vertical Transportation which enables the functions of the design in an active mode.									
Learning Outcome:									
LO1: Understand the network of electrification and components of wiring including to derive the electric load to be generated through the usage of equipment and appliances LO2: Apply acquired knowledge to importance of natural and artificial lighting ,resources for the both types of lighting arrangement which are the most important requirement of the built environment LO3: To adapt newer and latest technology and equipment's for modern and fundamental requirement of Information and communication LO4: High tech applications and services to be implemented for all type of functional areas like residential, commercial, corporate and Industrial.									
Theory syllabus									
Unit	Content								Hrs
A	Electrification <ul style="list-style-type: none"> Types of electricity, terminology, lighting accessories, protective devices Electric power supply system from generation to customer, single phase, three phase. Electrical distribution in a building from main distribution board to switch board. 								8
B	Lighting Light and its sources, the visual field, day lighting and its types. <ul style="list-style-type: none"> Day lighting criteria, Artificial lighting, kind of lighting, illumination, Calculations for lighting levels. 								8
C	Information and communication <ul style="list-style-type: none"> Various Modern application of communication and devices to be used in network Wi-Fi facilities and provision of electricity and wiring network, specific various types of wires Server and distribution area , junctions for modem and other devices 								6

D	Vertical transportation <ul style="list-style-type: none"> • Lifts, grouping of lifts, return-travel time, design of lift well, carrying capacity, installation requirements. • Design of specialized lifts for heavy loads or for service • Concept of moving walks and escalators and their design concerns. 	10
Practical content		
Site visits & Case studies. Market surveys of Electrification, Vertical transportation , Lighting, IC		
Text Books		
1	Building Construction Illustrated - Ching	
2	Building Construction H.B. -Chudley	
3	Building Construction -Punmia	
4	T.B. of Building Construction-Arora	
Reference Books		
1	Heating cooling, lighting - Norbert Lechner	
2	Mechanical & Electrical Equipment for Building - William J. McGuinness & others	
3	Operation & Maintenance of Electrical Equipment - B.V.S.Rao	
4	The Vertical Transportation Handbook - George R. Strakosch	
5	Building Construction Illustrated - Ching	

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Semester	III				Version	2.0.0.0			
Effective from Academic Year	2020-21				Effective for the batch Admitted in	June 2019			
Subject code	2IIIA06SSL		Subject Name	Site Survey & Levelling					
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	1	-	1	-	2	Theory	40	60	100
Hours	1	-	2	-	3	Practical	-	-	-
Objective:									
<ul style="list-style-type: none"> To make students aware of how surveying and levelling is important in realization of architectural design concept. At this stage, students shall be exposed to applications of principles of Surveying and Levelling in planning. To understand basic Techniques of surveying and levelling, Types of survey, measurement of angles, computation of areas. 									
Learning Outcome:									
<p>LO-1: Understand the concept of measurement techniques as well as map and associated details.</p> <p>LO-2: Computation of ground profile using different levelling technique.</p> <p>LO-3: Estimation of area and volume by field measurement as well as using formula.</p> <p>LO-4: To locate and marking of buildings, roads, rails various features etc using method of Plane Table Survey and Theodolite Survey.</p>									
CONTENT & TEACHING UNITS									
Unit	Content								Hrs
A	<p>INTRODUCTION: Role of Civil Engineer in Surveying, Definition, Basic measurements, Scale and Mapping, Types of Maps and their uses, Map sheet numbers, Map projections, Principles of Surveying, Classification of Surveying, Division of Surveying, Control networks, Locating position and topographic detail.</p> <p>MODERN TOOLS OF SURVEYING AND MAPPING: Introduction to Global Positioning System, Remote Sensing and Geographic Information System. Total station.</p> <p>LINEAR MEASUREMENTS: Methods, Chain and Tapes Instruments used in chaining; Chain surveying, Ranging, Errors in chaining, Conventional symbols. Field work, Distance adjustment, Errors in taping, Accuracies.</p>								10

B	MEASUREMENT OF ANGLES: COMPASS: Types and uses of compass, Bearings, Whole Circle Bearings and Reduced Bearings, Computation of angles; Meridians & its related examples; THEODOLITE TRAVERSING: Introduction, Field procedure, Measurement of Horizontal and Vertical Angles, Method of Repetition, Method of Reiteration, Theodolite Traverse, Adjustment of traverse.	8
C	ELEVATION MEASUREMENTS: Levelling, object and uses, terms used in levelling, levelling instruments, methods of levelling, recording and methods of reducing, errors in levelling & examples related to levelling, contours; characteristics and applications.	8
D	PLANE TABLE SURVEY: Introduction, principle, instruments, setting up the plane table, methods of Plane tabling, advantages, sources of Errors.	8
E	CURVES: Introduction, theory and setting out methods of simple circular curve, elements of a compound and reverse curves, transition curve, types of transition curve, combined curve, types of vertical curves.	6
F	COMPUTATION OF AREAS: Methods to compute area of traverse- Determining areas from Plans, Trapezoidal rule- Simpson's rule, Use of planimeter	8

Text Books

1

Reference Books

- | | |
|---|---|
| 1 | Chandra A.M. (2006). Plane Surveying (2nd ed.). New Delhi, India: New Age International Publishers |
| 2 | Ghosh J.K. (2010). Elementary Engineering Surveying. New Delhi, India: Stadium Press (India) Pvt.Ltd |
| 3 | Arora K. R., "Surveying and Levelling, Vol. I & II", Standard Publications, Delhi (2000). |
| 4 | Punmia B.C., "Surveying and Levelling, Vol. II & III", Laxmi Publications Pvt. Ltd., New Delhi (1994) |
| 5 | Rangwala (2018). Surveying and Leveling. Anand, India: Charotar |
| 6 | S. K. Duggal, "Surveying Vol. I and II," Tata McGraw hill Publication New Delhi |

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Semester		III			Version		2.0.0.0		
Effective from Academic Year			2020-21		Effective for the batch Admitted in			June 2019	
Subject code		2IIIA07CL		Subject Name		Climate and Architecture			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	2	-	-	-	2	Theory	40	60	100
Hours	2	-	-	-	2	Practical	-	-	-
Objective:									
<ul style="list-style-type: none"> • Sense the Natural elements and climate which on a large scale impacts the built environment created through the design. • Apply various methods to inculcate the practices and approach which promotes the use of conventional ideas using climatic conditions which ultimately mitigate the distortion of natural resources. 									
Learning Outcome:									
LO1:Observe and sense the natural elements and effects on livelihood of human being LO2: Understand and analyse various patterns of climate and its impact on different region LO3:Incorporate methods of using natural elements in to actual design LO4: Analyse the climatic conditions and develop various architectural and construction elements to mitigate challenges.									
Theory syllabus									
Unit	Content								Hrs
A	Climate Constituent elements, Classification of tropical climatic zones. Micro & Macro climate. Thermal comfort & principles of Thermal Design.								8
B	Ventilation <ul style="list-style-type: none"> • Need of Ventilation • Types of Ventilation • Air movement & penetration • Solar orientation, Sun path pattern & shading devices. 								10
C	Orientation of site layout and building components <ul style="list-style-type: none"> • Traditional House Form & Settlement pattern in various tropical climates. • Design Tools – Mahoney Tables, Sun Path diagrams, etc. • Day lighting – components, architectural methods of borrowing day light; control of glare. 								8
D	Time problem to prepare a design and model entirely produced on climatic conditions for specific regions of Indian territory								6

Text Books	
1	
Reference Books	
1	Manual Of Tropical Housing -by Otto.Koenigsberger 04. 06.
2	City & Wind : Climate As an Architectural Instrument- Krautheim
3	. Design Primer for Hot Climate by Allan Konya
4	Design With Climate : Bioclimatic Approach To Architectural Regionalism- Olgyay
5	Climatic Building Design by Donald Watson
6	Man, Climate & Architecture by B.Givoni
7	Building in Hot Climates Building Research Establishment

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Effective from Academic Year			2020-21		Effective for the batch Admitted in			June 2019	
Subject code		2IIIA08PE		Subject Name		Professional Elective-I			
Teaching scheme					Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	-	-	1	1	2	Theory	-	-	-
Hours	-	-	1	1	2	Practical	40	60	100
Objectives:									
To explore subjects and topics other than regular one which add value the knowledge gained									
Learning Outcome:									
LO1:To analyse variety of latest materials used in construction industry									
LO2: Categorize the use of materials as per the size and scale of elements or building parts									
LO3: Observe various limitations and scop of specific material									
LO4: Evaluate the usage the materials and derive how this material is adopted as a substitute or regular use									
Theory syllabus									
Unit	Content								Hrs
A	Introduction of Plastic as a construction material								4
B	Overview about the manufacturing of plastic material. Types of Plastics. Properties of plastic.								8
C	Study Limitation and scope of Plastic as a construction material								8
D	Application of material on various elements and building component								6
E	Prepare a design and model for specific program to be executed with specific material selected								6
Practical content									
Exercises based upon above topics. Models, installations and artworks									
Text Books									
1	NA								
Reference Books									

1	Building Skins and Details-Gao
2	Manual Of Tropical Housing -by Otto.Koenigsberger 04. 06.
3	Construction Technology Vol.-I-Chudley
4	Building Construction Illustrated-FransisD.K.Ching.
5	Fundamentals of Building Construction - Allen Edward

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Semester	III			Version	2.0.0.0			
Effective from Academic Year	2020-21			Effective for the batch Admitted in	June 2019			
Subject code	2IIIA09RSP	Subject Name		Related Study Programme II				
Teaching scheme				Examination scheme (Marks)				
(Per week)	Lecture(DT)		Practical(Lab.)		Total	CE	SEE	Total
	L	TU	P	TW				
Credit	NA				Theory			
Hours	1.5 / 2 Week, Block Course				Practical	ATTENDANT/ NOT ATTENDANT		
Objective:								
<p>The Related Study Programme (RSP) at the Institute of Architecture is a unique contribution to Architectural education. Initially called measure drawings, it is intended to take the students out into the field to get first-hand experience of traditional built environments. This subject recognizes the value of the traditional architecture as well as the importance of field experiences and travel in the learning of architecture. The students are encouraged to learn about not only the architectural forms also related components of architectural relevance.</p>								
Learning Outcome:								
<p>LO1:The Students will develop the skills & understanding of measure drawing. LO2:Students will get the understanding of “synthesis of learning from various courses” by observing; registering & mapping of actual built buildings. LO3:Programme outcome will be extremely valuable in creating knowledge base on architecture field not only in India but of nearby countries as well. LO4:Production of Accurate and precise drawings of many a monument, institution, settlement in India, which become a basis for future research.</p>								
CONTENT								
Unit	Content						HRS	
	<ul style="list-style-type: none"> • Student and faculty members stay at the selected Village for 6 to 9 days. • Students will get comprehensive awareness of that settlement. • Students will measure the built environment in terms of individual house, cluster of houses and building elements of that house. • Students will also documents the social, cultural, environmental aspects of that settlement. • Students came back at institute and make the final Drawings and report within remaining days. 						6 to 12 Days	
Text Books								
	NA							
Reference Books								
	NA							