NAMEOFTHEFACULTY : DIVYA RATHI

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

YEAR : 1stYEAR

SUBJECT : **SKETCHING &MODEL MAKING**

LESSON PLAN DURATION : 15WEEKS

WORK LOAD PER WEEK : 08

WEEK	PRACTICAL		
	LECTURE DAY	TOPIC	
₁ st	1	Free-hand of different types of lines Horizontal lines Vertical lines	
•	2	Exercises of different types of lines :Diagonal lines,Gridlines	
2 nd	3	Freehand sketching: Two-dimensional geometrical figures Three-dimensional geometrical figures	
	4	3Dimensional geometrical objects, Geometrical objects. (Cube, Cones, Prisms, Pyramids, Spheres Cylinders etc.)	
3rd	5	Introduction to anthropometrics, Study of anthropometrics	
3	6	Freehand sketching of human figures, Trees ,Furniture vehicles (One indoor exercise and one outdoor exercise),Vehicles	
4 th	7	Freehand sketching of small buildings with shade and shadow trees, Human figures, sky, clouds and birds,	
5th	8	SESSIONAL-I	
541	9	Free hand sketching landscape elements, Using various mediums like pencil, in k and colours (water colours and pencil colors etc.) ,Freehand sketches of Railway-station	
	10	Freehand sketches of parking places	
6 th	11	Freehand sketches of Bus stand,	
	12	Freehand sketches of market scene,	
	13	Freehand sketches of village scene	
7 th	14	Introduction of model making materials, techniques, Demonstration of model making materials ,techniques techniques	
	15	Block models of basic geometrical forms, Prisms ,Pyramids, Cubes ,Cylinders	
8 th	16	Using the following materials :Hand mades heetivory sheet Thermo cole	
δ	17	Using the following materials :Mount Board/Sun Board/Bal sa Wood Strips	
	18	Composition of various geometrical shapes ,different materials	

th	19	SESSIONAL-II
9 th	20	Sculpture Making Thermocole (Striper)
, eth	21	Mount Board/sun board/ Balsa wood strips
10 th	22	Claymodeling
11 th	23	Making model /Sculpture materials such as copper wire,ceramicsmisc.materials like leather
	24	Brick Masonry, Laying of bricks in different bonds
, eth	25	Painting and Polishing
12 th	26	Introduction to painting tools ,equipment
13 th	27	Preparation of different colors
1301	28	Surface preparation before painting(steel),
14 th	29	Painting Steel Items
1441	30	Spray Painting metal items
15 th	31	Surface preparation before painting (wood) ,Painting wooden ,Spray Painting wooden
	32	Surface preparation before polishing (wood) Spray Painting wooden
16 th	33	SESSIONAL-III

NAMEOFFACULTY : DIVYARATHI

DISCIPLINE : ARCHITECTURALASSISTANTSHIP

YEAR : 1^{ST} YEAR

SUBJECT : **ARCHITECTURALDRAWING-I**

LESSONPLANDURATION : 15WEEKS
WORKLOADPERWEEK : 08

WEEK		PRACTICAL
	LECTURED AY	TOPIC
₁ ST	1	Introduction and relevance Need and Importance of the architectural drawing, Basics of drafting instruments
	2	Basics of stationery (Pencils, sharpening, types of sheets, erasers, cutter etc.), Demonstration by the teacher on holding pencils, fixing parallel barandhandlin go the retools and equipment used in Architectural Drawing Basiclinework, with different pencil thickness Intensities H, HB, 2B, 4B, 6B
NID	3	LineWork:Horizontallines,Verticallines,GridLine
2 ND	4	Diagonal lines ,Composition, Pattern making in line work
₃ RD	5	Lettering, Lettering Using different shades, Using different pencils &pens, stencils, Different styles, heights & intensities
3	6	Introduction to Scale, Use of the modular scale ,Metric system and FPS
4 TH	7	Geometric Shapes (Plan ,elevation etc), Simple geometric (cubes ,cylinder, consent), Complex (fusion of the basics hapes) ,In corporating the use of scale both feet & metric
	8	Ortho graphic Projections, Ortho graphic Projections & planes
5 TH	9	Dimensioning and its elements, methods, and arrangements of symbols for shape indication.
	10	SESSIONAL-I
	11	Introduction to Planes, Projections of Points.

6 TH	12	Projections of lines
	13	Projection of solids,
7 TH	14	Section of Solids, Simple geometrical shapes
8 TH	15	Elementary building sections ,Highlighting line, Intensities for sectional components ,Elevational components for exp Parapetand Chajja
	16	Developmentofsurface, Development with an aim to calculate areas
₉ TH	17	SESSIONAL-II
	18	Isometric Views(30 ^O –30 ^O)
10th	19	Isometric Views(30 ⁰ –60 ⁰)
	20	2D Geometrical shapes
11th	21	2D Geometrical shapes
	22	Conversion of 2D geometrical shapes into 3 D Isometric views
1.2th		,Conversion of 2D geometrical shapes into3D isometric views
12th	23	3 D isometric views
	24	Complex solid to basic building forms
13th	25	Axonometric Views,2D Geometrical shapes
	26	Conversion of 2D Geometrical shapes
14th	27	3D Axonometric views, Different angles(45 ⁰ –45 ⁰)
	28	Simple to complex solid to basic building forms, Isometric/axonometric use of any building form
15th	29	Base plan ,Exterior components, Interior components
	30	Exterior/interior components(with roads ,lands cape elements)
16 th	31	SESSIONAL-III

NAMEOFTHEFACULTY : DIVYA RATHI

DISIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 3rd

SUBJECT : BUILDING SERVICES

LESSIONPLANDURATION : 15 WEEKSWORKLOADPERWEEK : 03 (L)

	THEORY		
Week	LECTURE Day	Topic	
₁ ST	1	Water Supply -Water as natural resource , public health significance of water quality, demand of water for domestic, commercial, industrial andpublic utilitypurposesas per BISstandards.	
	2	Percapita demand, leak age and wastage of water and its preventive measures	
2 nd	3	System of water supply – continuous, intermittent, their advantages and disadvantages, Storage and Distribution of Water: Different methods of water distribution boosting water ,gravity and pressure distribution by Storage tanks of individual buildings	
	4	Hot water supply for buildings including solar water heating, Service connections ,types and sizes of pipes water supply fixture and installations, Concept of Rain water harvesting.	
3rd	5	Drainage-Principles of drainage ,surface drainage ;combined and separate System of drainage shape and sizes of drains and sewers ,storm water overflow chambers ,methods of laying and construction of sewers	
	6	House drainage: traps – shapes, sizes, types, materials and function, Inspection chambers—sizes, and construction	
4 th	7	Ventilation of house drainage—anti-siphon age and vent pipes ,single stack and double stack system,	
	8	Functions and working of sinks, wash basins ,water closets ,flushing cisterns ,urinals,—sizes and types ,Septic tanks, see page and soak pits	
5th	9	Simple exercises on layout plans for toilet and kitchens for public and residential buildings including the placement, distances and fixing details	
	10	SESSIONALTEST-I	
cth	11	Lighting and Electrical Fittings-Electrical distribution-conduits for wiring	
6 th	12	CFL and other lamps, thumb rules for calculation of illuminating level,	

7th	13	various systems of wiring and theirs ustainability
	14	Symbolic representation of electrical fittings for different work areas in residential building(e.g.bed room ,living room, kitchen, study and toilet)
8TH	15	Symbolic representation of electrical fittings for different work areas in residential building(e.g.bed room ,living room, kitchen, study and toilet)
O	16	Preparation of electrically out of as impel residential building ,Precautions to avoid electrical accidents
9th	17	Heat ,Ventilation and Air Conditioning(HVAC)-Behavior of heat propagation
,	18	Thermal insulating materials and their co-efficient of thermal conductivity
10 th	19	General methods of the rmalinsulation
1041	20	SESSIONAL-II
₁₁ th	21	Thermalin sulation of roofs ,exposed walls, Ventilation
1141	22	Definition and necessity, System of ventilation(Mechanical)
12 th	23	Essential so fair-conditioning system, Fire Fighting Services-Causes of fire In Buildings
	24	Classification of building materials according to fire rating; fire alarm systems
13 th	25	Introduction to fire-fighting system, precaution and controlling devices(fire panels,doorandwindowsautomation,firehydrantsandsprinklers)
13	26	Fire escape elements(stair cases ,ramps,),provision sin building from fire safety angle as per BIS
₁₄ th	27	Heat detectors ,and fire detection system
1461	28	Vertical Transportation Systems-Classification and types of lifts
15 th	29	Lift sizes, provision and installation ,escalators, sizes, safety norm stobe adopted
	30	SESSIONALIII

NAMEOF THEFACULTY : SURBHI

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER :3rd
SUBJECT : **HOA-I**LESSON :15WEEKS

WORKLOADPER WEEK 04

		Theory
Week	Lecture Day	Торіс
	1	Introduction to HISTORY OF ARCHITECTURE
4 ct	2	Importance of history to understand the Architecture
1st	3	Examples of Early shelters, Stone Age, Tumuli, etc. as expression of man's physical and spiritual needs.
	4	Examples of Early shelters, Stone Age, Tumuli, etc .as expression of man's physical and spiritual needs.
	5	Determinants of built form—geo physical ,societal ,technological etc.
2 nd	6	(Early caves, timber huts, stone houses etc).
	7	Western Civilization
	8	Egyptian Civilization Concept of the Royal Necropolis
	9	Location al context and architectural characteristics of public buildings
3rd	10	e.g. Mastabas (master of sakara)and pyramids(rock–cut and structural) –one example of each type to be chosen
	11	Mesopotamian Civilization
	12	Presopotamian civilization
	13	Theurban context and architecture of public buildings (Ziggurats)-one example.
4th	14	Greek and Roman Civilizations
T -	15	Greek Civilization, Location and characteristics of typical civic spaces such as Agora, Acropolis, Stoa.
	16	Significant characteristics of Greek Architecture such as Materials, construction systems

	17	System of proportioning Greek orders, architecture of Greek temples— Parthenon, Athens.
5 th	18	Roman Civilization-Significant characteristics of Roman Architecture.
	19	SESSIONALTEST-1
	20	Concept of monumentality, materials and construction systems,
	21	Roman orders ,Coliseum
6 th	22	Pantheon Rome ,their form ,and constructional/structural systems.
	23	IndianCivilizationandBuddhistArchitectureinIndia
	24	
	25	Indus Valley Civilization: Form of the Harappa city,
7 th	26	Location and role of public buildings.
	27	Architecture of the typical(Harapp and welling)
	28	y a dimedectar of the typical (that app and troiming)
	29	Great Granary and Great Bath.
8 th	30	The Vedic Village,
	31	Building typology and construction.
	32	Buddhist Architecture in India Building typology
	33	Stupas
9th	34	Chaitya Hall
	35	Vihara one example from each ;construction methods and ornamentation
	36	Temple Architecture in India
	37	Evolution of temple and its various parts.
10 th	38	Dravidian style(Southern)
	39	SESSIONALTEST-2
	40	Dravidian style(Southern)
4.TU	41	General characteristics,
11 TH	42	Construction methods and material

	43	Construction methods and material
	44	(e.gshore temple at Mahabalipuram,)
	45	architectural form, planning components, construction methods, materials, motifs
12 th	46	Indo Aryan Temple (North Indian)
	47	Sun Temple Konark;
	48	Architectural form,
	49	Planning components, construction methods, materials ,motifs
13 th	50	Lingaraja Temple at Bhubaneswar
	51	Architectural form, planning components,
	52	Construction methods ,materials, motifs
	53	Kandariya Mahadeo at Khajuraho
14 th	54	Architectural form, planning components,
	55	Construction methods, materials ,motifs
	56	Jain temple sin India
	57	Dilwara temple ,Mt. Abu
15 th	58	Architectural form, planning components, Construction methods ,materials ,motifs
	59	SESSIONALTEST-3

NAMEOFTHEFACULTY :GURDEEP

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER :3rd

SUBJECT : ARCHITECTURE DRAWING –III

LESSONPLANDURATION :15 WEEKSWORKLOADPERWEEK :04

WEEK	PRACTICALTOPIC
1ST	Basic of Perspective: Introduction to basic terminology (picture plane. Vanishingpoint, Station point, cone of vision etc) Introduction to types of perspective - (One-point, Two-point, Bird'seyeview, worm'seyeview, normaleyeviewetc.)(vanishing pointmethod)
2ND	Drawing of Two-Point Perceptive Views: Geometrical shapes in corporating all views: Planes, cones, cubes, cylinders, pyramid etc. Bird's eye view, Normal eye view, Wormseyeview
3RD	Geometrical shapes in corporating all views :planes, cones ,cubes ,cylinders pyramid etc .Bir s eye view ,Normal eye view, Worms eye view
4TH	Two point perspective of simple building such as Guard room, kiosk etc
5TH	IST SESSIONALTEST
6TH	Two point perspective of simple building such as Guard room ,kiosk etc
7TH	Drawing of One-Point Perceptive Views : Geometrical shape incorporating all views: ,cones, cubes , cylinders ,pyramid etc.
8TH	Onepoint perspectiveofagivenplanofkitchenand drawingroom.
9TH	Introduction to Scio graphy —in Plans and Elevation. Geometrical shapes such as :pla ,cones, cubes, cylinders, pyramid etc.
10TH	2 ND SESSIONALTEST
11TH	Geometrical shapes such as :planes, cones, cubes ,cylinders ,pyramid etc.
12TH	Sciography of simple building such as Guard room ,kiosk etc.
13TH	Introduction to Rendering: Demo from teacher in different mediums – colour pencils, crayon, Colour wash. Markers etc.
14TH	Rendering Techniques in pen and ink, Different colour mediums. Rendering of a given perspectives
15TH	2 ND SESSIONALTEST

NAME OF THE FACULTY : SH. RAJESH KUMAR

DISIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 3rd

SUBJECT : BASIC DESIGN AND VISUAL ARTS

LESSION PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : 08 (P)

		Practical			
Week	Lecture Day Topic				
1 ST	1	Basic elements of Anthropometrics with respect to average measurements of human body of adult in different postures-its proportion and graphic representation.			
	2	Basic elements of Anthropometrics with respect to average measurements of human body of children in different postures-its proportion and graphic representation.			
2 ND	3	Human body (Anthropometrics), Various activities of human body , Proportion of Components of Human Body , The proportions of the different components of the human body; Examples from Le Corbusier Modular Man , VastuPursha Mandala.			
	4	Human Activities: Basic human functions and their implications for spatial planning. Minimum and optimum areas for various functions. Activity space analysis related to form, function and expression of individual spaces like Bed room, Drawing room			
	5	Human Activities: Basic human functions and their implications for spatial planning. Minimum and optimum areas for various functions. Activity space analysis related to form, function and expression of individual spaces like Kitchen, Bath room etc.			
	6	Furniture standards (sizes of domestic and public furniture); Toilet - sizes and standards;			
4 TH	7	Furniture standards (sizes of domestic and public furniture); Kitchen equipment - sizes and standards;			
	8	windows - sizes, standards and locations.			
5 TH	9	SESSIONAL Ist			
	10	Doors - sizes, standards and locations.			
	11	Standard Parking 1 a y o u t s s h o w i n g t u r n i n g r a d ii for two-wheelers. Parking layouts at various angles (parallel, 45 degrees, 90 degrees), Standard road width.			
6 ^{тн}	12	Standard Parking I a y o u t s s h o w i n g t u r n i n g r a d iifor cars, buses, etc. Parking layouts at various angles (parallel, 45 degrees, 90 degrees), Standard road width.			
7 TH	13	Street furniture: Standards for drinking fountains, waiting queues at bus stops,			
	14	garden seats, waste bins, telephone booths, street lights, foot paths, public walkways, railing etc.			
8 TH	15	Street furniture: Standards for drinking fountains, waiting queues at bus stops, garden seats, waste bins, telephone booths, street lights, foot paths, public walkways, railing etc.			
	16	Street furniture: Standards for drinking fountains, waiting queues at bus stops, garden seats, waste bins, telephone booths, street lights, foot paths, public walkways, railing etc.			
9 TH	17	Street furniture: Standards for drinking fountains, waiting queues at bus stops, garden seats, waste bins, telephone booths, street lights, foot paths, public walkways, railing etc.			

	18	Graphic Representation of plant material (ground cover, foliage, shrubs, trees).
10 TH	19	Graphic Representation of plant material (human figures and vehicles).
	20	SESSIONAL-II
11 TH	21	Introduction to AutoCAD (Latest version or AutoCAD2007) Input devices• Graphics• Starting AutoCAD• Inside the drawing editor• Commands in the menus (Tool bars)•Accessing Commands• Entity selection• Entering coordinate•
	22	 Accessing Commands Entity selection Entering coordinate Folders for organizing drawings and files Exercise: Creating folders and sub folders
12 TH	23	Creating and Saving a new Drawing Commands and options to create new drawings Units Limits Snap Grid Ortho Layer
	24	Application of layers• Open a new, existing drawing• Save, save as, quit, close, exit•
13 TH	25	Customization of tool bars• Exercise: Setting up a new drawing with units, limits etc .
	26	Draw Commands Line Poly line/Multi line. Arc Ellipse Polygon Rectangle SP line Circle Sketch. Hatch Donuts
14 TH	27	Modifying an Existing Drawing Commands Undo Redo/Oops● Trim● Move●
	28	Offset• Rotate• Array• Stretch• Divide•Champher• Erase• Break• Copy, multiple copy• Mirror (Mirror test)•
15 TH	29	Change (change properties) • Extend • Explode • Blip mode • Scale • Fillet • Design center.
	30	SESSIONAL III

NAME OF THEFACULTY : SUNIL RAI

DISCIPLINE : ARCHITECTURALASSISTANTSHIP

SEMESTER : 3rd

SUBJECT : CLIMATOLOGY

LESSONPLANDURATION : 15WEEKS

WORK LOADPERWEEK : 03

SESSION : 2024-25

WEEK	LECTURE	THEORY
VVLLK	DAY	TOPIC
1ST	1.	General Introduction: Introduction to climatology
_	2.	Movement of earth around sun,
	3.	Elements of climate (Wind, temp, humidity,).
2ND	4.	Elements of climate (precipitation, pressure).
2	5.	Different Climatic Zones.
	6.	Orientation of building with respect to above mentioned elements of climate
3RD	7.	Effect of climate on man and shelter.
	8.	Relation of Climate and comfort: Macro-micro climatic effects
	9.	Difference between Climate and comfort
4TH	10.	Difference between Macro-micro climatic effects
·	11.	Concept of comfort zone and bio-climatic chart
	12.	Concept of comfort zone and bio-climatic chart
5TH	13.	Climatic evaluation by season
3	14.	Climatic evaluation by season
	15.	IST SESSIONAL TEST
6TH	16.	Sun Control and shading devices (without calculations)
0	17.	Solar Chart (sun path diagram)

	18.	Orientation for sun
	10.	Officiation for Suff
7TH	19.	Internal and external sun protection devices
	20.	Internal and external sun protection devices
	21.	Natural lighting
8 TH	22.	Introduction of Solar Passive Design
	23.	Objectives of Solar Passive Design
	24.	Passive solar heating and cooling
9 TH	25.	Wind control: Orientation with respect to wind
	26.	Orientation with respect to wind
	27.	Wind protection devices
10T	28.	Use of building materials with respect to climate: Concrete, Brick, Glass
Н	29.	Use of building materials with respect to climate: Plastics, Stone, Insulating material
	30.	2ND SESSIONAL TEST
11 ^T	31.	Environment and Ecology:
H	32.	Environment and Ecology
	33.	Basic elements of ecology
12T	34.	Concepts of natural cycles in Eco-system
Н	35.	Source of noise and air pollution
	36.	Noise and air pollution effects
13 ^T	37.	Noise and air pollution controls
H	38.	Use of landscape elements
	39.	Use of landscape elements for micro and macro climate control
₁₄ T	40.	Use of landscape elements for micro and macro climate control

Н	41.	Introduction to climate change
	42.	Principle causes of climate change
15 ^T	43.	Climate change: effects- methods of mitigating climate change
H	44.	Climate change: effects- methods of mitigating climate change
	45.	3RD SESSIONAL TEST

NAME OF FACULTY : Smt. SEREBDEEP KAUR

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5th

SUBJECT : LANDSCAPE DESIGN (ELECTIVE-I)

LESSON PLAN DURATION : 15 WEEKS WORK LOAD (LECTURE/PRACTICAL) : 3 PERIODSPER WEEK

WEEK	THEORY		
	LECTURE DAY	TOPIC	
1st	1	Elements of Landscape a) Plants (Trees, shrubs, ground covers, Flowering species, climbers)	
	2	b) Water	
	3	c) Earth forms	
2 1	4	d) stones	
2nd	5	e) Artificial elements	
	6	f) man-made elements	
	7	Explain of principles of landscape design	
3rd	8	Explain landscape design with respect to architectural functions	
	9	Architectural functions a) Form	
	10	b) Symmetry	
4th	11	c) Balance	
	12	d) Texture	

	13	e) Colour
5th	14	f) Contrast
	15	SESSIONAL TEST-1
6th	16	g) Proportions
Out	17	h) scale
	18	i) Simplicity
	19	j) Focus
7th	20	k) Rhythm
	21	I) Aesthetics (Visual aspects)
	22	m) Aesthetics (functional aspects)
8th	23	Explain Relationship of landscape & climate
	24	Relationship of landscape & climate a) Orientation
	25	b) Sun Control by Plants
9th	26	c) Wind control by plants
	27	d) Microclimate Human comfort
	28	e) Human comfort
10th	29	Outdoor functional spaces
	30	SESSIONAL TEST-2
	31	Importance of outdoor functional spaces in landscape design
11th	32	Outdoor functional spaces with respect to different building types.
	33	Outdoor functional spaces with respect to different building types
12th	34	Outdoor functional spaces with respect to different building types

	35	Various types of gardens :- Japnese gardens,
	36	Mughal gardens
400	37	Topiary gardens
13th	38	Importance of different types of gardens in landscape design
	39	Landscape design of an outdoor area within an existing building
	40	Landscape design of an outdoor area within an group of Buildings
14th	41	Landscape design of an outdoor area within an Park design
	42	Landscape design of the architectural design project students are currently working on.
	43	Work on architectural design project
15th	44	Representation of Landscape drawings
	45	SESSIONAL TEST-3

NAME OF THE FACULTY : Sh. PARDIP KUMAR MITTAL

DISIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5th

SUBJECT : QUANTITY SURVEYING AND VALUATION

LESSION PLAN DURATION : 15 WEEKSWORK LOAD PER WEEK : 04

		Theory
Week	Lecture Day	Topic
1 st	1 & 2	Introduction to quantity surveying and its importance.
	3 & 4	Duties of quantity surveyor
2nd	5 & 6	Types of estimates Preliminary
		estimates
		- Plinth area estimate
	7 & 8	Cubic rate estimate
		Estimate per unit base
3rd	9 & 10	Detailed estimates
		Definition
	11 & 12	Stages of preparation – details of measurement and calculation of
411	12.0.11	quantities and abstract
4th	13 & 14	Measurement
	15 & 16	Units of measurement for various items of work as per BIS:1200
	15 & 16	Rules for measurements
5th	17 & 18	Different methods of taking out quantities – centre line method
	19 & 20	Sessional Test-1
6th	21 & 22	Different methods of taking out quantities – short wall and long wall
		method
	23 & 24	Running and maintenance cost of construction equipment 7
		Measurement Book and Billing
	25.0.06	Entries in measurement book
7th	25 & 26	Standard measurement book
OFF	27 & 28	Checking of measurement
8th	29 & 30	Preparation of bill
	31 & 32	First and final bill
9th	33 & 34	Running account bill
	35 & 36	Advance payment, secured advance payment
10th	37 & 28	• • • • • • • • • • • • • • • • • • • •
1001		Refund of security money
11th	39 & 40 41 & 12	Sessional Test-2
1101	71 & 12	Contractor ship
	42.0.44	Meaning of contract
	43 & 44	Contractor ship
12 th	45 & 46	Qualities of a good contractor and their qualifications
12	45 & 40	Contractor ship Essentials of a contract
	47 & 48	Contractor ship
	7/ 0 70	Types of contracts, their advantages, dis-advantages and suitability,
		system of payment

13th	49 & 50	Contractor ship
		Single and two cover-bids; tender, tender forms and
		documents, tender notice,
	51 & 52	Submission of tender and deposit of earnest money
14th	53 & 54	Security deposit, retention money, maintenance period
	55 & 56	Preparation of Tender Document based on Common Schedule Rates (CSR)
15 th	57 & 58	Introduction to CSR and calculation of cost based on premium on CSR
		Specifications
	59 & 60	SESSIONAL TEST-3

NAME OF FACULTY : Sh. SUNIL RAI

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5TH

SUBJECT : COMPUTER APPLICATIONS IN

ARCHITECTURE

LESSON PLAN DURATION : 15 WEEKS WORK LOAD (LECTURE/ : 4 PERIODS

PRACTICAL) PER WEEK

		PRACTICAL
WEEK	PRACTICAL DAY	TOPIC
1st	1	Introduction to AutoCAD: Starting up, practice on – how to create a new drawing file, setting drawing limits & saving a file.
2nd	2	Drawing lines in different ways using absolute co-ordinates, user co-ordinates, WCS, UCS, drawing circles, arcs, ellipses. polygons, splines, polylines, using window, zoom commands
3rd	3	Practice on Modify commands such as erase, copy, mirror, array, offset, rotate, oops, undo, redo, scale, stretch command
4th	4	Practice on Text commands: editing text, text size, text styles, change properties commands
5th	5	SESSIONAL TEST-1
6th	6	Practice on trim, break, extend, chamfer, fillet, O snap command; Draw orthographic views of simple objects
7th	7	Practice on Layer Commands: creating layer, freeze, layer on/off, lock & unlock layer, move from one layer to other.
8th	8	Practice on Layer Commands: color assigning, current layer, load line type; Practice on hatching,
9th	9	Practice on Dimensioning, linear dimensioning, angular dimensioning radius/diameter dimensioning, snap command, aligned dimensioning; applying tolerance; Editing of dimensioning
10th	10	SESSIONAL TEST-2
11th	11	Practice on print commands. Export commands Practice on plot commands. Import commands
12th	12	Practice on making complete drawings of 2 Dimensional geometrical figures using AUTOCAD (2D)
13th	13	Practice on making complete drawings of composition of 2 Dimensional geometrical figures using AUTOCAD (2D)
14th	14	Practice on making complete Single storey plan of using AUTOCAD (2D)
15th	15	SESSIONAL TEST-3

NAME OF THE FACULTY : Sh. Sunil Rai

DISIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5th

SUBJECT : ARCHITECTURAL DESIGN - III

LESSION PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : 08

		Theory
Week	Lecture Day	Topic
1st	1	Introduction about design, Introduction about Health centre, Framing of Requirement, Inter- relation of various spaces and circulation pattern.
	2	Site visit to Health centre to studying the planning, inter relation of space and various areas, circulation pattern, Landscaping, Lighting / Vent. And other features
2nd	3	Report working of the Health Centre visitef with sketches
	4	Discussion and viva voce of report
3rd	5	Preliminary design started with concept plan
	6	Discussion and finalization of rough plan
4th	7	Preliminary of G.F plan & Site plan
	8	Completion of all floor plans with furniture layout & rendership, Elevation section and view
5th	9	SESSIONAL TEST-1
	10	Completion of set of plans, elevations, view with full rendering
6TH	11	Viva- Voce and checking of Health Centre Project
	12	Viva- Voce and checking of Health Centre Project
7TH	13	Site Visit to Shopping Complex
	14	Test of Shopping Complex
8TH	15	Test of continued
	16	Viva- Voce of Shopping Complex Drawings

9TH	17	Introduction about nursery school project framing of requirements, inter- relation of spaces and circulation pattern.		
3111	18	Site visit to nursery school to study the planning, inter relationship of spaces, various areas, circulation pattern, landscape designing, furniture detailing, light, ventilation etc.		
10TH	19	Report marking of Nursery school visited in previous week. Discussion and finalization of rough plan		
	20	SESSIONAL TEST-2		
11TH	21	Preliminary design started with conceptual plan.		
	22	Discussion and finalization of rough plan.		
12TH	23	Preparation of ground floor plan, site plan.		
	24	Completion of plans with furniture layout and rendering		
13TH	25	Preparation of elevation, sections and view.		
13111	26	Completion of set of all nursery school drawings with full rendering.		
1./\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	27	Viva- Voce Exam		
14TH	28	Viva- Voce and checking of Drawings		
15TH	29	Completion of all pending works / drawings		
	30	SESSIONAL TEST-3		

NAMEOFTHE FACULTY : Sh. Gurdeep Malik

DISCIPLINE : ARCHITECTURALASSISTANTSHIP

SEMESTER :5th

SUBJECT : **ST. SYSTEM-I**

LESSON PLAN DURATION 15 weeks

15WEEKS WORKLOADPERWEEK : 03

WEEK	LECTURED AY	THEORY		
		TOPIC		
1ST	1.	Force: Definition, effect, characteristics,		
	2.	Force Systems: Coplanar and non-coplanar force systems		
2ND	3.	Types of coplanar Forces		
	4.	Collinear, Concurrent, Parallel Forces		
aDD	5.	Non-concurrent and non-parallel forces		
3RD	6.	Resultant force and components of a force		
4TH	7.	Laws of forces: Parallelogram, Triangle and polygon Laws of forces		
	8.	Definition of centre of Gravity and Centroid		
5TH	9.	Centroid by method of moments of areas for square, rectangular, triangular cross-section		
	10.	ISTSESSIONALTEST		
6TH	11.	Centroid by method of moments of areas for L-shape, T shape and I shape cross- section		
	12.	Moments of Inertia by methods of moments and Radius of Gyration.		
7TH	13.	Definition of stress and strain		
	14.	Types of stress and strain		

8th	15.	Stress strain curve for mild steel		
001	16.	Hook's Law (Theory) Elasticity, Elastic limit		
9th	17.	Shear Force and Bending Moment		
Jul	18.	Types of loads- Dead load, Live load, snow, wind and seismic loads as per IS:875		
10th	19.	Types of loading: Point load, uniformly distributed load and uniformly varying load.		
	20.	2NDSESSIONALTEST		
11th	21.	Types of Supports: Hinged, fixed supports, types of reactions provided by each type of support.		
	22.	Types of Beams: Simply supported, cantilever, overhanging and continuous beams (description only)		
12th _	23.	Concept of bending moment and shear force.		
1201	24.	Bending moment and shear force diagrams for simply supported beam subjected to point loads and uniformly distributed loads.		
13th	25.	Bending moment and shear force diagrams for cantilever subjected to point loads and uniformly distributed loads .		
	26.	Bending moment and shear force diagrams for overhanging beams subjected to point loads and uniformly distributed loads only.		
14th	27.	Types of Structure Systems & its applications		
	28.	Load-Bearing Structures ,Frame Structures		
15th	29.	Cable and Tensile Structures , Hybrid Structure Systems, Shell Structures ,Truss Structures		
	30.	3RDSESSIONALTEST		

NAMEOFTHE FACULTY :DIVYA

DISCIPLINE :ARCHITECTURALASSISTANTSHIP

SEMESTER :5^t

SUBJECT :BUILDING MATERIAL &CONSTRUCTION-IV

LESSIONPLANDURATION :15 WEEKSWORKLOADPERWEEK :06

WEEK	LECTURED	PRACTICAL			
	AY	TOPIC			
1st	1.	Ceiling Materials (Size, quality, availability, types of finishes, uses, trade names, market rate and application methods) Hession cloth, Gypsum plaster boards plaster of Paris board			
	2.	Ceiling Materials Plain AC sheets – E board			
2nd	3.	Ceiling Materials Plywood, Hard Board, Cellotex			
	4.	Ceiling Materials Fiber Boards • Fiber glass • Asbestos tiles •Thermocoal• Medium density fiber board (MDF)			
3rd	5.	Roofing Materials GI sheets, Shingle			
	6.	Roofing Materials Ferro-cement sheets, Fiber sheets			
4th	7.	Roofing Materials Slates, Manglore tiles, Pan tiles, Corrugated PVC sheets			
	8.	Roofing Materials Their standard sizes, uses, availability, prices and knowledge about supporting system			
5th	9.	Additives and Admixtures Water repellants and water proofing agents			
	10.	Additives and Admixtures Accelerators			
	11.	ISTSESSIONALTEST			

6th	12. Additives and Admixtures Air entraining agents, Hardeners			
7th	13.	Additives and Admixtures Workability increasing agents		
	14.	Additives and Admixtures Fly ash		
8th	15.	Additives and Admixtures Their availability, uses, costs, performance specifications, and properties used under various conditions.		
	16.	Kitchen and Toilet Fixtures Introduction		
9th	17.	Market survey of various materials and collection of data with reference to their properties, sizes, costs, designs etc.		
	18.	Specifications of kitchen and toilet fittings and fixtures, their popular brand names, shapes and sizes		
10th	19.	Earthquake resistant building configuration		
	20.	Principles of earthquake resistance, effect of building form on seismic behavior, building configuration for improved earthquake resistance		
11th	21.	2NDSESSIONALTEST		
	22.	Steel Sections Steel doors and windows using standard rolled sections		
12th	23.	Rolling and collapsible structure		
	24.	Steel Roofs Line diagram of steel roofs for various span		
13th	25.	Steel Roofs Construction details of steel roofs		
	26.	Steel Roofs Roof covering: AC, GI sheets		
14th	27.	Steel Roofs North light truss		
	28.	Frame and Sealed Connections Built Up Steel Columns and Beams Beam to beam framed connection		
15th	29.	Frame and Sealed Connections Built Up Steel Columns and Beams Beam to column framed connection		
	30.	3RDSESSIONALTEST		