LESSION PLAN

NAME OF THE FACULTY : SUNIL RAI, PRIYA, KULDEEP

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5th

SUBJECT : EMPLOYABILITY SKILL-I

LESSON PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : 02

WEEK	LECTURE DAY	THEORY TOPIC
1ST	1.	Writing skills
	2.	Writing skills - business correspondence
2ND	3.	Writing skills - Official correspondence
	4.	Job application
3RD	5.	Job application - covering letter
	6.	Job application – resume
4TH	7.	Relation between covering letter and resume
	8.	Report writing - key features
5TH	9.	Report writing – kinds
	10.	IST SESSIONAL TEST
6TH	11.	Oral Communication Skills
	12.	Giving advice
7TH	13.	Making comparisons

	14.	Agreeing Oral Communication
8TH	15.	Disagreeing Oral Communication
	16.	Taking turns in conversation
9TH	17.	Fixing appointments
	18.	cancelling appointments
10TH	19.	Difference between Fixing and cancelling appointments
	20.	2ND SESSIONAL TEST
11TH	21.	Generic Skills
	22.	Stress management
12TH	23.	Time management
	24.	Stress management
13TH	25.	Time management
	26.	Negotiations and conflict resolution
14TH	27.	Relation between Negotiations and conflict resolution
	28.	Team work and leadership qualities
15TH	29.	Relation between Team work and leadership qualities
	30.	3RD SESSIONAL TEST

LESSON PLAN

NAME OF THE FACULTY : SEREBDEEP KAUR , SURBHI

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5th

SUBJECT : ENVIRONMENTAL EDUCATION

LESSION PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : 03

WEEK	LECTURE DAY	THEORY TOPIC
1ST	1.	Definition of Environmental Education
	2.	Scope of Environmental Education
	3.	Importance of Environmental Education
2ND	4.	Basics of ecology
	5.	Biodiversity of ecology
	6.	Eco system of ecology
3RD	7.	Sustainable development of ecology
	8.	Sources of pollution - natural and manmade
	9.	Causes of pollution
4TH	10.	Effects of pollution
	11.	control measures of pollution (air, water, noise, soil, radioactive and nuclear)
	12.	control measures of pollution units of measurement

5TH	13.	Solid waste management
	14.	Causes of Solid waste management
	15.	IST SESSIONAL TEST
6TH	16.	Effects of Solid waste management
	17.	Control measures of urban and industrial waste management
	18.	Mining and deforestation
7TH	19.	Causes of Mining and deforestation
	20.	effects of Mining and deforestation
	21.	control measures of Mining and deforestation
8TH	22.	Environmental Legislation
	23.	Water (prevention) Act 1974
	24.	Water (control of pollution) Act 1974
9TH	25.	Air (Prevention) Act 1981
	26.	Air (Control of Pollution) Act 1981
	27.	Environmental Protection Act 1986.
10TH	28.	Role of State Pollution Control Board
	29.	Function of State Pollution Control Board
	30.	2ND SESSIONAL TEST
11TH	31.	Environmental Impact Assessment (EIA)
	32.	Role of Non-conventional Energy Resources (Solar Energy)
	33.	Role of Non-conventional Energy Resources (Wind Energy)
12TH	34.	Role of Non-conventional Energy Resources (Hydro Energy)
	35.	Current Issues in Environmental Pollution
	36.	Global Warming

13TH	37.	Green House Effect
	38.	Depletion of Ozone Layer
	39.	Recycling of Material
14TH	40.	Environmental Ethics
	41.	Rain Water Harvesting
	42.	Maintenance of Groundwater
15TH	43.	Acid Rain
	44.	Carbon Credits
	45.	3RD SESSIONAL TEST

LESSON PLAN

NAME OF THE FACULTY : KAPIL

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5th

SUBJECT : R.C.C

LESSON PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : 06

WEEK	LECTURE DAY	THEORY TOPIC
1ST	1.	Introduction and Concept of Reinforced Cement Concrete (RCC)
	2.	Reinforcement Materials: - Suitability of steel as reinforcing material - Physical properties of mild steel and HYSD/TMT steel
2ND	3.	Loading on structures as per IS: 875
	4.	Introduction to following methods of RCC design
3RD	5.	Working stress method, Limit state method
	6.	Shear and Development Length
4TH	7.	Shear as per IS:456-2000 by working stress method
	8.	Shear strength of concrete without shear reinforcement
5TH	9.	Maximum shear stress, Shear reinforcement
	10.	IST SESSIONAL TEST
6TH	11.	Basic assumptions of Singly Reinforced Beam (working stress method)
	12.	Stress strain curve
7TH	13.	Neutral axis, balanced, under reinforcement and over reinforced beams,
	14.	Moment of resistance for singly reinforced beam.

8TH	15.	Design of singly reinforced beam including sketches showing reinforcement details
	16.	Concept of Limit State Method (as per IS 456:2000)
9TH	17.	Definitions and assumptions made in limit state of collapse (flexure)
	18.	Partial factor of safety for materials, Partial factor of safety for loads
10TH	19.	Design loads, Stress block diagram
	20.	2ND SESSIONAL TEST
11TH	21.	Theory and Design of singly reinforced beam by Limit State Method
	22.	Doubly Reinforced Beams, Theory and design of simply supported doubly reinforced rectangular beam by Limit State Method
12TH	23.	Behaviour of T beam, inverted T beam, isolated T beam and 'L' beams (No Numericals)
	24.	Theory and design of simply supported one way slab including sketches showing reinforcement details (plan and section) by Limit State Method.
13TH	25.	Theory and design of two-way simply supported slab with corners free to lift, no provisions for torsional reinforcement by Limit State Method including sketches showing reinforcement details (plan and two sections)
	26.	Axially Loaded Column- Definition and classification of columns, Effective length of column, Specifications for longitudinal and lateral reinforcement
14TH	27.	Design of axially loaded square, rectangular and circular (with lateral ties only) short columns by Limit State Method including sketching of reinforcement (sectional elevation and plan)
	28.	Concept of foundation: shallow and deep foundation, types and suitability of foundation (no numerical
15TH	29.	Concept of pre-stressed concrete, advantages and disadvantages, Methods of pre-stressing
	30.	3RD SESSIONAL TEST

LESSON PLAN

NAME OF THE FACULTY : PARDIP KUMAR MITTAL ,PRIYA, ,NISHA

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5th

SUBJECT : WORKING DRAWING - II

LESSON PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : 06

WEEK	LECTURE DAY	PRACTICAL TOPIC
1ST	1.	Preparation of working drawings in ink or on AutoCAD/computer of a two or three storeyed building already dealt with in the design project:
	2.	Site Plan of a two or three storeyed building
2ND	3.	Foundation layout plan of a two or three storeyed building
	4.	Foundation layout plan of a two or three storeyed building
3RD	5.	Foundation sectional details of a two or three storeyed building
	6.	Ground Floor Plan of a two or three storeyed building
4TH	7.	Upper Floor Plans (one for each floor)
	8.	Upper Floor Plans (2nd floor plan)
5TH	9.	Upper Floor Plans (3rd floor plan)
	10.	IST SESSIONAL TEST
6TH	11.	Terrace Plan with rainwater drainage and disposal details
	12.	Terrace Plan with proper dimensioning
7TH	13.	Terrace Plan with specifications so that it may be used for site execution specifications so that it may be used for site execution
	14.	Built-in furniture e.g. side boards, wardrobes, cupboards, niches etc in plan.

8TH	15.	Built-in furniture e.g. side boards, wardrobes, cupboards, niches etc in plan.
	16.	Draw 2 elevations of a given plan. (front and side view)
9TH	17.	Draw 2 sections of a given plan. (front and side view)
	18.	Entrance gate with proper details.
10TH	19.	Boundary wall with proper details.
	20.	2ND SESSIONAL TEST
11TH	21.	Railing with proper details.
	22.	Electrical layout plan of an already handled design project
12TH	23.	Electrical layout plan of an already handled design project
	24.	Specification of electrical symbols details
13TH	25.	Water supply layout plan of an already dealt design project.
	26.	Sewage & drainage layout plan of an already dealt design project.
14TH	27.	Fire fighting layout plan of an already dealt design project.
	28.	Water supply, sewage & drainage layout plan & fire fighting layout of an already dealt design project.
15TH	29.	Water supply, sewage & drainage layout plan & fire fighting layout of an already dealt design project.
	30.	3RD SESSIONAL TEST

LESSON PLAN

NAME OF THE FACULTY : PARDIP MITTAL,RAJESH, KULDEEP

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5th

SUBJECT : BUILDING CONSTRUCTION - IV

LESSION PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : 06

WEEK	LECTURE DAY	PRACTICAL TOPIC
1ST	1.	Riveted Connections and Welded Joints
	2.	Draw Riveted joint Connections
2ND	3.	Draw Welded Joints connections
	4.	Steel Sections - Draw Steel doors using standard rolled sections (plan, section and elevation)
3RD	5.	Steel Sections - Draw Steel windows using standard rolled sections (plan, section and elevation)
	6.	Steel Sections - Draw Rolling structure (plan, section and elevation)
4TH	7.	Steel Sections - Draw collapsible structure (plan, section and elevation)
	8.	Technical terms of Steel Sections
5TH	9.	Steel Roofs
	10.	IST SESSIONAL TEST
	11.	Technical terms of Steel Roofs

6TH	12.	Line diagram of steel roofs for various spans
7TH	13.	Draw the Line diagram of steel roofs for various spans
	14.	Construction details of steel roofs
8TH	15.	Draw the Construction details of steel roofs
	16.	Roof covering: AC, GI sheets
9TH	17.	Draw the Roof covering: AC, GI sheets
	18.	North light truss
10TH	19.	North light truss
	20.	2ND SESSIONAL TEST
11TH	21.	Frame and Sealed Connections Built Up Steel Columns and Beams
	22.	Draw Frame and Sealed Connections Built Up Steel Columns
12TH	23.	Draw Frame and Sealed Connections Built Up Steel Beams
	24.	Beam to beam framed connection
13TH	25.	Beam to column framed connection
	26.	Beam to column seated connection
14TH	27.	Draw Beam to beam framed connection
	28.	Draw Beam to column framed connection
15TH	29.	Draw Beam to column seated connection
	30.	3RD SESSIONAL TEST

LESSON PLAN

NAME OF THE FACULTY : PREYANK SHORI, SEREBDEEP KAUR,

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5th

SUBJECT : ARCHITECTURAL DESIGN - IV

LESSON PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : 08

WEEK	LECTURE DAY	THEORY TOPIC
1ST	1.	Introduction Two exercises of upto 3-storied buildings of 8 weeks duration each to be done individually. The exercise could be any of the following:
	2.	**a) Small housing complex.** Preparation of site plan for small housing complex Special Emphasis to be laid on site planning. Services, Parking. Note: 1. Case study and library study must be done for each exercise. Note: 2 Site Visits and related case studies to be carried out
2ND	3.	Drawing ground floor plan of small housing complex.
	4.	Drawing 1st , 2nd and terrace floor plan of small housing complex.
3RD	5.	Preparation of two elevations of small housing complex
	6.	Preparation of two sections of small housing complex.
4TH	7.	**b) Museum, exhibition centre.** Preparation of site plan for Museum, exhibition centre
	8.	Drawing ground floor plan of Museum, exhibition centre.
5TH	9.	Drawing 1st , 2nd and terrace floor plan of Museum, exhibition centre.
	10.	IST SESSIONAL TEST
6TH	11.	Preparation of two elevations of Museum, exhibition centre
	12.	Preparation of two sections of Museum, exhibition centre
7TH	13.	**c) Motel** Preparation of site plan for Motel.

	14.	Drawing ground floor plan of Motel.
8TH	15.	Drawing 1st , 2nd and terrace floor plan of Museum, exhibition centre.
	16.	Preparation of two elevations of Museum, exhibition centre.
9TH	17.	Preparation of two sections of Museum, exhibition centre.
	18.	**d) Shopping centre** Preparation of site plan for Shopping centre
10TH	19.	Drawing ground floor plan of Shopping centre
	20.	2ND SESSIONAL TEST
11TH	21.	Drawing 1st , 2nd and terrace floor plan of Shopping centre.
	22.	Preparation of two elevations of Shopping centre.
12TH	23.	Preparation of two sections of Shopping centre.
	24.	**e) High school** Preparation of site plan for High school
13TH	25.	Drawing ground floor plan of High school.
	26.	Drawing 1st, 2nd and terrace floor plan of High school
14TH	27.	Preparation of two elevations of High school
	28.	Preparation of two sections of High school
15TH	29.	Preparation of two sections of High school
	30.	3RD SESSIONAL TEST

LESSON PLAN

NAME OF THE FACULTY : SUNIL RAI, PREYANK SHORI,KULDEEP

DISCIPLINE : ARCHITECTURAL ASSISTANTSHIP

SEMESTER : 5th

SUBJECT : COMPUTER APPLICATION - II

LESSON PLAN DURATION : 15 WEEKS

WORK LOAD PER WEEK : 08

WEEK	LECTURE DAY	THEORY
		TOPIC
1ST	1.	The design problem done in 4th semester as main project shall be taken up for preparing a complete set of drawings. These include all plans showing all interior layouts, joinery schedule, tree plantations, parking layout etc.
2ND	2.	The design problem done in 4th semester as main project shall be taken up for preparing a elevations (minimum 2) and sections (2 minimum)
3RD	3.	Fundamentals of 3-D Drafting , Basic Features such as box, wedge, cylinder, torus etc.
4TH	4.	Coordinate system, 3-D entities and surfaces such as boundary, resign (Converting simple geometric shapes into 3-D Objects)
5TH	5.	IST SESSIONAL TEST
6TH	6.	Making an existing 2-D plan drawing compatible to 3-D drafting (Commands and modifications to 2-D drawings, B. Poly, rectangle, elevation, extrude – requirements and applications)
7TH	7.	3-D of exterior of blocks – preparation, modification of 2-D drawing 3-D of interiors of block – preparation, modification of 2-D drawings
8TH	8.	3-D Modeling such as extrude, press pull, spline, subtract, unian etc.
9TH	9.	Visual style like 2D Wire frame, 3D Wire frame, surface 3D hidden wire frame etc.
10TH	10.	2ND SESSIONAL TEST

11TH	11.	3-D solid modeling and Viewing 3-D models like front view, top view, side view and isometric views.
12TH	12.	Rendering, shading , hide commands, lights and Camera, Material representation, Importing, exporting library and printing 3-D
13TH	13.	Demonstration of 3D max, Corel Draw, Adobe Photoshop as rendering tool for 3D blocks/ walk through etc.
14TH	14.	Converting simple geometrical shapes into 3-D objects 2. Students will take their second year design proposals and convert them in 3-dimensional presentation models
15TH	15.	3RD SESSIONAL TEST