NAME OF FACULTY	:	SEREBDEEP KAUR
DISCIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	6th
SUBJECT	:	LANDSCAPE DESIGN (ELECTIVE-I)
LESSON PLAN DURATION	:	15 WEEKS
WORK LOAD (LECTURE/PRACTICAL)	:	3 PERIODS
PER WEEK		

WEEK THEORY LECTURE TOPIC DAY Elements of Landscape 1 a) Plants (Trees, shrubs, ground covers, Flowering species, climbers) **1**ST b) Water 2 3 c) Earth forms d) stones 4 2ND e) Artificial elements 5 f) man-made elements 6 Explain of principles of landscape design 7 3RD Explain landscape design with respect to architectural functions 8 Architectural functions 9 a) Form b) Symmetry 10 11 c) Balance **4**TH d) Texture 12 5TH 13 e) Colour

	14	f) Contrast
	15	SESSIONAL TEST-1
	16	g) Proportions
6 ^{тн}	17	h) scale
	18	i) Simplicity
	19	j) Focus
7 TH	20	k) Rhythm
	21	I) Aesthetics (Visual aspects)
	22	m) Aesthetics (functional aspects)
8 TH	23	Explain Relationship of landscape & climate
	24	Relationship of landscape & climate a) Orientation
	25	b) Sun Control by Plants
9 [™]	26	c) Wind control by plants
	27	d) Microclimate Human comfort
	28	e) Human comfort
10 TH	29	Outdoor functional spaces
	30	SESSIONAL TEST-2
	31	Importance of outdoor functional spaces in landscape design
11 TH	32	Outdoor functional spaces with respect to different building types.
	33	Outdoor functional spaces with respect to different building types
1 3 TH	34	Outdoor functional spaces with respect to different building types
TT	35	Various types of gardens :- Japnese gardens,

	36	Mughal gardens		
	37	Topiary gardens		
13 TH	38	Importance of different types of gardens in landscape design		
	39	Landscape design of an outdoor area within an existing building		
14 TH	40	Landscape design of an outdoor area within an group of Buildings		
	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		
15 [™]	44	Representation of Landscape drawings		
	45	SESSIONAL TEST-3		

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NAME OF THE FACULTY	:	SUNIL RAI
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	6 th
SUBJECT	:	ENTREPRENEURSHIP DEVELOPMENT AND MANAGEMENT
LESSION PLAN DURATION	:	15 WEEKS
Work load per week	:	03

	Theory			
Week	Lecture Day	Торіс		
	1	Concept of Entrepreneurship		
1 ST	2	Meaning of Entrepreneurship		
	3	Need of Entrepreneurship		
	4	Qualities of Entrepreneur		
2 ND	5	Functions of Entrepreneur		
	6	Barriers inv Eentrepreneurship		
	7	Sole proprietorship of business organisations		
3 RD	8	Partnership forms of business organisations		
	9	Schemes of assistance by entrepreneurial support agencies at National, State, District –level, organisation: NSIC, NRDC,		
	10	DC, MSME, SIDBI, NABARD,		
4 ^{тн}	11	Commercial Banks, SFC's TCO		
	12	KVIB, DIC		
	13	Technology Business Incubators (TBI)		
5 [™]	14	Science and Technology Entrepreneur Parks		
	15	SESSIONAL TEST-1		
БТН	16	Market Survey and Opportunity Identification * Scanning of the business environment		
0	17	Salient features of National		

	18	State industrial policies for business environment		
	19	Types of market survey		
7 TH	20	Conduct of market survey		
	21	Assessment of demand in potential areas of growth		
	22	Assessment of Supply in potential areas of growth		
8 TH	23	Identifying business opportunity		
	24	Considerations in product selection		
	25	Project report Preparation		
		Preliminary project report		
9 ^{тн}	26	How to prepare Project report		
	27	Detailed project report including technical		
	28	Detailed project report including economic		
10 TH	29	Detailed project report including market feasibility		
	30	SESSIONAL TEST-2		
	31	Common errors in project report preparations		
4 4 TH	32	Exercises on preparation of project report		
11 TH	33	Definitions and importance of management Functions of management: Importance and process of planning, organising, staffing, directing and controlling		
	34	Principles of management (Henri Fayol, F.W. Taylor)		
12 TH	35	Concept and structure of an organisation		
	36	Types of industrial organisations a) Line organisation b) Line and staff organisation c) Functional Organisation		
13 TH	37	Leadership and Motivation a) Leadership		

		Definition and Need
		Qualities and functions of a leader
		Manager Vs leader
		Types of leadership
		b) Motivation
	20	Definitions and characteristics
	38	 Factors affecting motivation
		Theories of motivation (Maslow, Herzberg, Douglas,
		McGregor)
		Management Scope in Different Areas
		a) Human Resource Management
		Introduction and objective
		• Introduction to Man power planning, recruitment and
	39	selection
		 Introduction to performance appraisal methods
		b) Material and Store Management
		 Introduction functions, and objectives
		 ABC Analysis and EOO
		c) Marketing and sales
		• • Introduction, importance, and its functions
	40	Physical distribution
		Introduction to promotion mix
		Sales promotion
		d) Financial Management
		 Introductions, importance and its functions
14 TH	41	• Elementary knowledge of income tax, sales tax, excise duty,
		custom duty
		and VAT1
		Miscellaneous Topics
	42	a) Customer Relation Management (CRM)
		Definition and need
		• • Types of CRM
		b) Total Quality Management (TQM)
	43	Statistical process control
		Iotal employees Involvement
4 - TU		• Just in time (JII)
15'"	44	c) Intellectual Property Right (IPR)
		Introductions, definition and its importance
	45	•• Intringement related to patents, copy right, trade mark
	45	SESSIONAL TEST-3

NAME OF THE FACULTY	:	PARDIP KUMAR MITTAL
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	6 th
SUBJECT	:	QUANTITY SURVEYING AND VALUATION
LESSION PLAN DURATION	:	15 WEEKS
Work load per week	:	05

	Theory		
Week	Lecture Day	Торіс	
	1	Introduction to quantity surveying and its importance.	
	2	Duties of quantity surveyor	
1 st	3	Types of estimates Preliminary estimates Plinth area estimate 	
	4	- Cubic rate estimate - Estimate per unit base	
	5	Detailed estimates - Definition	
	6	 Stages of preparation – details of measurement and calculation of quantities and abstract 	
7 ND	7	Measurement Units of measurement for various items of work as per BIS:1200	
-	8	Rules for measurements	
	9	Different methods of taking out quantities – centre line method	
	10	Different methods of taking out quantities – short wall and long wall method	
	11	Preparation of Detailed and Abstract Estimates from Drawings A small residential building with a flat roof	
	12	Temporary shelters	
3 RD	13	Temporary sheds	
	14	Water supply lines for a house	
	15	Sanitary supply fittings	
4 ^{тн}	16	Water supply fittings	

	17	Septic tank for a domestic building
	18	Explain Roads/streets network of group housing project
	19	Explain Roads/streets network of group housing project RCC work in footing
	20	SESSIONAL TEST-1
	21	Roads/streets network of group housing project RCC work in beams
	22	Roads/streets network of group housing project RCC work in slab
5 TH	23	Roads/streets network of group housing project RCC work in column
	24	Roads/streets network of group housing project RCC work in lintel
	25	Calculation of quantities of materials from working drawings Cement mortars of different proportion
	26	Cement concrete of different proportion
	27	Brick masonry in cement mortar
6 TH	28	Plastering and pointing
	29	Painting and polishing
	30	Steel reinforcement of RCC elements – Beam
	31	Steel reinforcement of RCC elements _ Lintels
7 TH	32	Steel reinforcement of RCC elements – Slab
	33	Steel reinforcement of RCC elements – Column
	34	Analysis of Rates Steps involved in the analysis of rates. Requirement of material
	35	Steps involved in the analysis of rates labour
	36	Steps involved in the analysis of rates Sundrie
	37	Steps involved in the analysis of rates - contractor's profit and overheads
8 ^{тн}	38	Analysis of rates for finished items when data regarding labour, rates of material and labour is given:Earthwork in excavation hard.
	39	 Analysis of rates for finished items when data regarding labour, rates of material and labour is given: Ordinary soil and filling with a concept of lead and lift
	40	Analysis of rates for finished items when data regarding labour, rates of material and labour is given:

		- Cement concrete in foundation
	41	SESSIONAL TEST-2
9 ^{тн}	42	Analysis of rates for finished items when data regarding labour, rates of material and labour is given: - RCC in roof slab
	43	Analysis of rates for finished items when data regarding labour, rates of material and labour is given:Brick masonry in cement mortar
	44	Analysis of rates for finished items when data regarding labour, rates of material and labour is given: - Cement Plaster
	45	Analysis of rates for finished items when data regarding labour, rates of material and labour is given: - Painting and polishing
	46	Running and maintenance cost of construction equipment 7 Measurement Book and Billing Entries in measurement book
	47	Standard measurement book
10 TH	48	Checking of measurement
	49	Preparation of bill
	50	First and final bill
	51	Running account bill
	52	Advance payment, secured advance payment
	53	Refund of security money
11 TH	54	Valuation Purpose of valuation, principles of valuation
	55	Valuation Definition of various terms related to valuation like – depreciation, sinking fund
	56	Salvage and scrap value
	57	Market value, fair rent, year's purchase etc
12 TH	58	Methods of valuation - Replacement cost method
	59	Methods of valuation - Rental return method
	60	. Contractorship - Meaning of contract
13 TH	61	. Contractorship - Qualities of a good contractor and their qualifications

	62	. Contractorship - Essentials of a contract
	63	. Contractorship - Types of contracts, their advantages, dis-advantages and suitability, system of payment
	64	 Contractorship Single and two cover-bids; tender, tender forms and documents, tender notice,
	65	Submission of tender and deposit of earnest money, security deposit, retention money, maintenance period
	66	Preparation of Tender Document based on Common Schedule Rates (CSR) - Introduction to CSR and calculation of cost based on premium on CSR Specifications
	67	General and detailed specifications of : Single storey buildings
14 [™]	68	Double storey buildings
17	69	General specification 1st, 2nd, 3rd and 4th class buildings Exercises on writing detailed specifications of different types of building works from excavation to foundations, superstructure and finishing operation
	70	- Exercises on preparing tender documents for the following : a) Earth work
	71	 b) Construction of a small house as per given drawing c) RCC works
15 ^{тн}	72	d) Pointing, plastering and flooring e) White-washing, distempering and painting
	73	f) Wood work including polishingg) Sanitary and water supply installations
	74	h) False ceiling, aluminum (glazed) partitioningi) Tile flooring including base course
	75	SESSIONAL TEST-3

NAME OF THE FACULTY	:	SUNIL RAI
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	6 th
SUBJECT	:	INTERIOR DESIGN (ELECTIVE-II)
LESSION PLAN DURATION	:	15 WEEKS
Work load per week	:	03

		Practical
Week	Practical Day	Торіс
	1	Introduction to interior design and its scope, general awareness to the subject and discussion.
1 st	2	Principal of interior design, Function spaces, Durability of various elements, aesthetics, economy.
	3	Minimum dimensions for various functions with respect to Human Body's action
	4	Planning for interior decoration, factors effecting the interior decoration, Functionalism and comfort, aesthetics and elements of aesthetics(Point, Line)
2 ND	5	Form, Texture, Proportion, Rhythm, Balance, background, colour, landscape, composition, circulation as elements of interior design.
	6	Colour and its role in interior decoration, elements of colour, psychological impact of colour, Basic principal of colour decoration, colour schemes.
	7	Landscape on interior decoration, various types of plans for indoor decoration, containers and artificial plants and flowers.
3 RD	8	Storage spaces in interiors. (Kitchen, Bedrooms, Living rooms, Storage in term of wall units)
	9	Light as an element of interior duration different types of lighting fixtures(sketches)
	10	Material and surfaces(wall finishes, floor covering materials, curtains and upholstery) materials for furniture.
4 ^{тн}	11	Site for visit for market survey of materials available in (Home alignment in form of report/ materials collector)
	12	Site for visit for market survey of materials available in (Home alignment in form of report/ materials collector)
5 TH	13	Site for visit for market survey of materials available in (Home alignment in form of report/ materials collector)

	14	Space Analysis of living room, Dining & Kitchens
	15	Sheet No. 1
	16	SESSIONAL TEST-1
6 ^{тн}	17	Sheet No. 2 Space Analysis of Bedrooms, Children Bedrooms, Toilets
	18	Sheet No. 3 Space Analysis of restaurants
	19	Sheet No. 4 Space Analysis of Offices Lobbies
7 ^{тн}	20	Sheet No. 4 Space Analysis of Offices Lobbies
	21	Sheet No. 5 Space Analysis of Shops
	22	Site visit for ease study of restaurant / Fast Food(On site sketches to be made / photographs)
8 TH	23	Site visit for ease study of restaurant / Fast Food(On site sketches to be made / photographs)
	24	Site visit for ease study of restaurant / Fast Food(On site sketches to be made / photographs)
	25	Report making of case study
9 ^{тн}	26	Report making of case study
	27	Report making of case study
	28	SESSIONAL TEST-2
10 TH	29	Sheet No. 6 Detail of furniture & storage
	30	Sheet No. 6 Detail of furniture & storage
	31	Sheet No. 6 Detail of furniture & storage
11 TH	32	Sheet No. 7, 8 & 9 Detail of partition, falceiling and paneling
	33	Sheet No. 7, 8 & 9 Detail of partition, falceiling and paneling
	34	Sheet No. 7, 8 & 9 Detail of partition, falceiling and paneling
12 TH	35	Sheet No. 7, 8 & 9 Detail of partition, falceiling and paneling
	36	Sheet No. 7, 8 & 9 Detail of partition, falceiling and paneling
13 ™	37	Electrical layout in interiors

	38	Electrical layout in interiors
	39	Project work of restaurants (Detailed plan showing furniture, Indoor plants)
	40	Furniture layout, Sectional elvations showing wall treatment (colour schemes)
14 ^{тн}	41	Furniture layout, Sectional elvations showing wall treatment (colour schemes)
	42	Furniture layout, Sectional elvations showing wall treatment (colour schemes)
	43	One point percepective
15 TH	44	Details of furniture, storage, Partition, False ceiling.
	45	SESSIONAL TEST-3

NAME OF THE FACULTY :

SEREBDEEP KAUR, SUNIL RAI,

DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	6 th
SUBJECT	:	PORTFOLIO (MAJOR PROJECT) & PROFESSIONAL TRAINING
LESSION PLAN DURATION	:	15 WEEKS
Work load per week	:	19

		PRACTICAL
WEEK	PRACTICAL DAY	ΤΟΡΙϹ
1 st	1	Introduction about various topics. Group Formation. Synopsis from the individual group.
2 nd	2	Library study. Visit to Library
3 RD	3	Collect effective data. Consolidate report of library study. Checking of library study of individual group.
4 ^{тн}	4	Site visit. Allotment of letter for Site visit.
5 TH	5	Site visit report submission. Report checking.
6 ^{тн}	6	Define Concept
7 TH	7	Final Report submission
8 TH	8	Rough floor plan and Site Plan Final floor plan
9 [™]	9	Rough elevation submission Final elevation submission
10 TH	10	Final Floor Plans
11 TH	11	Elevations & Sections
12 ^{тн}	12	Working Drawings
13 TH	13	Presentation Drawings
14 TH	14	Model preparation
15 ^{тн}	15	Model submission

NAME OF	: SH.RAJESH
THE FACULTY	KUMAR
	:
	ARCHITECTURAL
DISIPLINE	ASSISTANTSHIP
SEMESTER	: 4TH SEM
	: BUILDING
	MATERIALS AND
	CONTRUCTION
SUBJECT	TECHNOLOGY-III
LESSION PLAN DUR	ATION :
15 WEEKS	
WORK LOAD PER W	VEEK :
02(T) + 04(P)	

	Theory /I	Practical
Week	Lecture Day	Торіс
1 ST	Theory	Plastics :Natural (Shellac, casein and cellulose) and synthetic plastics Thermosetting and thermoplastics and their uses ,Plastics used as materials in building, industry e.g. flooring, roofing, wall panelling, pipes, doors etc
	Practical	Flooring : Typ es of flooring and constituents

		upper flooring)
		Different types of floor finishes (Sheet no 1) Plastics :
	Theory	Plastics used as materials in building, industry e.g. wall panelling, pipes, doors etc
2 ND		Polymers – carbon fiber, polymer concrete, polycarbonate sheet etc. Flooring :
	Practical	Typ es of flooring and constituents (ground and upper flooring) Diff erent types of
		floor finishes (Sheet no 2) Alloys and Metals :
3 RD	Theory	Ferrous and non-ferrous metals (Aluminum, copper, lead, zinc, tin etc) their uses and applications in buildings
	Practical	Door And Window: Drawing of aluminum door showing fixing

		beading,
		hardware's
		etc. Drawing
		of sliding
		doors (Sheet
		no 3)
		Paints and
		Varnishes.
		Drving Oil.
		Pigment.
		Drier.
		Adhesives
		Synthetic
		resins (their
		trado namos
	Theory	uses of
	Theory	uses of
		synthetic
		resins, costs,
		application in
		various
•/TI		situations as
4 ¹ⁿ		compared to
		traditional
		materials and
		methods .
		Door And
		Window:
		Drawing of
		aiummum
		showing
	Practical	fiving
	Tactical	heading
		hardware's etc
		Drawing of
		revolving
		doors (Sheet
		no 4
		Thinner,
		Adhesives
		Synthetic
		, resins (their
		trade names.
		uses of
		synthetic
5 TH	Theory	resins. costs.
~		application in
		various
		situations as
		compared to
		traditional
		materials and
		methods
		memous.

	Practical	SESSION
6 ^{тн}	Theory	Packing sizes, rates, brands, performance guarantees as given by the manufacturer and collection of catalogues and their covering capacity, uses and availability of paints and Varnishes . Water based paints, Distempers, Oil based paints and
	Practical	emulsions. Drawing a dog leg wooden staircase.(Sheet no 5)
7 TH	Theory	Packing sizes, rates, brands, performance guarantees as given by the manufacturer and collection of catalogues and their covering capacity, uses and availability of paints and Varnishes . Cement paints ,Acrylic emulsions, Melamine finishes
	Practical	Drawing a dog leg wooden staircase.(Sheet no 5)

rates, brands, performance guarantees as
performance guarantees as
guarantees as
guarantees as
given by the
given by the manufacturer
and collection
and concerton
of catalogues
and then
The server and
I neory and
8 TH
paints and
varnisnes.
V arnishes,
Spirit polish,
wax
polish,Lacquer
s, Stucco, Tar
and Bitumen
paint ,Glazing
putty
Steel spiral
Practical staircase.
(Sheet no 6)
Floor Finishes
(Laying sizes,
availability,
popular brand
names, quality
of polish, uses
of polish, uses and current
of polish, uses and current market rates)
Theoryof polish, uses and current market rates)Terrazzo
Theoryof polish, uses and current market rates)Terrazzo Tiles and
9 TH of polish, uses and current market rates) Terrazzo Tiles and Flooring
9 TH b Theory b Theory c f polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed
9 TH Theory o f polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed terracotta and
9 TH Theory o f polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed terracotta and ceramic tiles
9 TH Glazed terracotta and ceramic tiles Cement
9 TH Gazed terracotta and ceramic tiles Concrete Tile
9 TH Berration 10 TH Meory of polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed terracotta and ceramic tiles Cement Concrete Tile RCC staircase
9 TH Building the set of polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed terracotta and ceramic tiles Cement Concrete Tile RCC staircase cast-in-situ
9 TH Practical 9 TH Practical 9 TH 9 TH 9 TH 0 ^f polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed terracotta and ceramic tiles Cement Concrete Tile RCC staircase cast-in-situ and also
9 TH Practical Preast (Sheet
9 TH Practical Protection 9 TH Practical Protection Protec
9 TH Practical of polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed terracotta and ceramic tiles Cement Concrete Tile RCC staircase cast-in-situ and also precast. (Sheet no 7) Floor
9 TH Practical of polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed terracotta and ceramic tiles Cement Concrete Tile RCC staircase cast-in-situ and also precast. (Sheet no 7) Floor Finishes
9 TH Practical оf polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed terracotta and ceramic tiles Сетепт Сопсrete Tile RCC staircase cast-in-situ and also precast. (Sheet no 7) Floor Finishes (Laying sizes.
9 ^{тн} 10 TH 10 Th
9 TH 10 TH 10 TH heory f polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed terracotta and ceramic tiles Cement Concrete Tile RCC staircase cast-in-situ and also precast. (Sheet no 7) Floor Finishes (Laying sizes, availability, popular brand
9 TH 10 TH 10 TH Practical 10 TH Practical 10 TH Theory of polish, uses and current market rates) Terrazzo Tiles and Flooring Glazed terracotta and ceramic tiles Cement Concrete Tile RCC staircase cast-in-situ and also precast. (Sheet no 7) Floor Finishes (Laying sizes, availability, popular brand names, quality

			and current
			market rates)
			Marble stone.
			Kota stone.
			slate, red sand
			stone, granite
			– their tiles
			and slabs
		Draatiaal	SESSION
		Tactical	
			AL-II Elsen Einishes
			Floor Finishes
			(Laying sizes,
			availability,
			popular oralid
			of polish uses
			or porisii, uses
			market rates)
			Parquet
	11 TH	Theory	(Wooden)
			Linoleum
			tiles and rolls
			Expansion
		Practical	joint in walls
			and roof,
			Tramed
			structure
			(Sneet no 8)
			Floor Finishes
			(Laying sizes,
			availability,
			names quality
			of polish uses
			and current
		Theory	market rates)
		·	PVC
	12 TH		Heavy duty
			flooring for
			industrial
			building
			Expansion
		Practical	ioint in walls
			and roof
			framed
			structure
			(Sheet no 8)
			(~~~~~~))

		Exterior &
		Interior Wall
		Finishes
		(along with
		application
		method)
		Wall board
	Theory	homogeneous
		fiber boards
13 TH		types
		Diastic
		- Flastic
		tilos ovoiloblo
		Expansion
		Expansion ioint in wells
		joint in wans
	Practical	and root,
		Iramed
		structure
		(Sneet no 9)
		Exterior &
		Interior Wall
		Finishes
		(along with
		application
	Theory	method)
		Wall
4 4 711		papers ,Cork
14 ¹¹		sheets and
		tiles
		,Thermocol
	Practical	Expansion
		joint in walls
		and roof,
		framed
		structure
		(Sheet no 9)
		Exterior &
		Interior Wall
		Finishes
		(along with
		application
		method)
	Theory	 Foam
	-	rubber tiles
15 TH		and rolls
		 Textured
		paint finishes
		 Exterior
		wall finishes
	Practical	SESSIONA
		LIII
		1

NAMEOFTHEFA CULTY	: GURDEE P MALIK	
DISIPLINE	:	ARCHITECTURALASS ISTANTSHIP
YEAR/SEM	:	4 TH SEM
SUBJECT	:	MINOR PROJECT
LESSIONPLAND	1730000000	
URATION	15WEEKS	
WORKLOADPER		
WEEK	•	8
WEEK		PRACTICAL
	LECTUR	TOPIC
	DAY	T , 1 , 1 , 1 ,
		Introduction about design,
		center Framing of
	1	Requirement Inter- relation
		of various spaces and
		circulation pattern.
1^{ST}		Site visit to Health center to
		studying the planning, inter
		relation of space and
	2	various areas, circulation
		pattern, Landscaping,
		Lighting / Vent. And other
		features
	2	Report working of the
	5	skotchos
2110		Discussion and viva voce of
	4	report
	_	Preliminary design started
200	5	with concept plan
JKD	6	Discussion and finalization
	0	of rough plan
		Preliminary of G.F plan &
	7	Site plan
4^{TH}		Completion of all floor
-		plans with furniture layout
	8	& rendership. Elevation
		section and view
		Completion of all floor
		nlans with furniture layout
	9	& rendershin Elevation
5'fH		section and view
	10	SESSIONAL TEST-1

	11	Completion of set of plans, elevations, view with full rendering
6TH	12	Viva- Voce and checking of Health Centre Project
	13	Viva- Voce and checking of Health Centre Project
	14	Site Visit to Shopping Complex
	15	Test of Shopping Complex
/1H	16	Test of continued
8TH	17	Viva- Voce of Shopping Complex Drawings
	18	Introduction about nursery school project framing of requirements, inter- relation of spaces and circulation pattern.
9 ^{тн}	19	Site visit to nursery school to study the planning, inter relationship of spaces, various areas, circulation pattern, landscape designing, furniture detailing, light, ventilation etc.
	20	Report marking of Nursery school visited in previous week. Discussion and finalization of rough plan Preliminary design started with conceptual plan.
	21	2 nd SESSIONAL TEST
10тн	22	Discussion and finalization of rough plan.
	23	Preparation of ground floor plan, site plan.
11тн	24	Completion of plans with furniture layout and rendering
	25	Preparation of elevation, sections and view
12тн	26	Completion of set of all nursery school drawings with full rendering.
	27	Viva- Voce Exam
13тн	28	Viva- Voce and checking of Drawings

14тн	29	Completion of all pending works / drawings
	30	Completion of all pending works / drawings
15тн	31	Completion of all pending works / drawings
	32	SESSIONAL-III

NAMEOFTHEFA CULTY DISIPLINE YEAR/SEM	: GURDEEP MALIK : ARCHITECTURAL ASSISTANTSHIP : 4th SEM
	BUILDING BYE LAWS AND MUNCIPAL DRAWING
	15WEEKS
RWEEK	: 3

	Theory		
Week	Lecture Day	Торіс	
	1	Introductionofbuildingbyelaws	
1ST	2	Needofbuildingbye- lawsforurbandevelopment.	
	3	BasicTerminologyofbuildingbye-laws	
	4	Factorsaffectingplanningofbye-laws	
2 nd			
	5	Lightandventilation	
	6	Mass	
	7	Volume	
3 rd			
	8	Openspace	
	9	Skyline	
ath	10	Setbacks.	
4	11	Parking and Fire Safety	
	12		
	12	FIOUAIeaRatio	
	13	Floorspaceindex	
5 th	14	Byelaws	
	15	SESSIONALTEST-1	
6 th	16	StudyBuildingBye-laws	

	17	StudyBuildingBye- lawsoflocaldevelopmentauthorities/munici palities
	18	IntroductiontoNationalBuildingCode.
	19	Zoning
7 th	20	Conceptofzoning
	21	Objectivesofzoning
	22	TypesofzoningOFresidential
	23	TypesofzoningOFcommercialbuilding
8TH		
	24	TypesofzoningOFotherbuilding
	25	TypesofzoningOFotherbuilding
	26	CaseStudyofexistingresidentialwith
	_ •	respectto
9тн		implementationoflocalByelaws
	27	CaseStudyofcommercialbuildingwithresp
		ectto
		implementationoflocalByelaws
	28	CaseStudyofexistingresidentialwith
1.0		
T O I H	29	
		implementationoflocalByelaws
	30	SESSIONAL TEST-2
	51	drawings]- sub division/ layout plan, key plan, Site plan
11TH	32	drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring
11TH	32	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification
11TH	32 33 34	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs)
11TH	32 33 33 34 35	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs) Introduction toseismiczoning
11TH	31 32 33 34 35 36	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs) Introduction toseismiczoning Introductionto compounding
11TH	31 32 33 34 35 36 37	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs) Introduction toseismiczoning Introductionto compounding Introductiontoseismic&earthquake
11TH	31 32 33 34 35 36 37 38	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs) Introduction toseismiczoning Introductionto compounding Introductiontoseismic&earthquake resistantregulations
11TH	31 32 33 34 35 36 37 38 39	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs) Introduction toseismiczoning Introductionto compounding Introductiontoseismic&earthquake resistantregulations Codeprovisions(IS-1893)
11TH	32 32 33 34 35 36 37 38 39 40	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs) Introduction toseismiczoning Introductionto compounding Introductiontoseismic&earthquake resistantregulations Codeprovisions(IS-1893) seismiczoning
11TH	31 32 33 34 35 36 37 38 39 40 41	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs) Introduction toseismiczoning Introductionto compounding Introductiontoseismic&earthquake resistantregulations Codeprovisions(IS-1893) seismiczoning Preparationofonesetofmunicipaldrawing ofaresidential
11TH	32 33 33 34 35 36 37 38 39 40 41	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs) Introduction toseismiczoning Introduction toseismic&earthquake resistantregulations Codeprovisions(IS-1893) seismiczoning Preparationofonesetofmunicipaldrawing ofaresidential buildingalready
11TH	31 32 33 34 35 36 37 38 39 40 41 41 42	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs) Introduction toseismiczoning Introduction toseismiczoning Introductionto compounding Introductiontoseismic&earthquake resistantregulations Codeprovisions(IS-1893) seismiczoning Preparationofonesetofmunicipaldrawing ofaresidential buildingalready Preparationofonesetofmunicipaldrawing ofacommercial
11TH	32 32 33 34 35 36 37 38 39 40 41 42 12	Requirements for submission (Municipal) drawings]- sub division/ layout plan, key plan, Site plan Services plans, specifications, Structural stability Certificate, Scale, & coloring Introduction toDuration of sanction; Deviations, Violations and Penalties, Completion Certificate, Qualification Barriersforpersonswithdisabilities(PWDs) Introduction toseismiczoning Introduction toseismiczoning Introductionto compounding Introductiontoseismic&earthquake resistantregulations Codeprovisions(IS-1893) seismiczoning Preparationofonesetofmunicipaldrawing ofaresidential buildingalready Preparationofonesetofmunicipaldrawing ofacommercial already

44	DesignedinA.D.showingallservicesalong withperformas.
45	SESSIONALTEST-3

NAME OF THE FACULTY	:	SEREBDEEP KAUR
DISCIPLINE	:	ARCH. ASSISTANTSHIP
SEMESTER	:	4th
SUBJECT	:	HISTORY OF ARCHITECTURE – II
LESSON PLAN DURATION	:	15 WEEKS
WORK LOAD PER WEEK	:	03

		THEORY
WEEK	DAY	ΤΟΡΙΟ
1ST	1.	Early Christian Architecture
_	2.	Early Christian Architecture: Development of church plan (Basilican)
	3.	Early Christian Architecture: Construction methods
	4	General Architectural characteristics. (St. Peters. Rome)
2ND	5	Romanesque Architecture: General architectural characteristics
	6	Romanesque Architecture:planning,geographical conditions.
	7	Romanesque Architecture: materials . (e.g. pisa group of buildings)
	8	Romanesque Architecture:construction methods. (e.g. pisa group of buildings)
3RD	9	Gothic Architecture
	10	Gothic Architecture: Main visual of Gothic arch.
	11	Gothic Architecture: construction vocabulary of Gothic arch.
	12	Gothic Architecture: construction vocabulary of Gothic arch.
4TH	13	(E.g. Notre Dame Paris Reims Cathedral)

	14.	Introduction of Islam in India.
	15	Islam in India – New building types
	16	Islam in India structural system
5TH	17	Islamic architecture-Qutub complex
	18	Islam in India- Structural system and ornamentation (Qutub Minar)
	19	Islam in India- Structural system and ornamentation (Qutub Minar)

	19	IST SESSIONAL TEST
	20	1 ST SESSIONAL TEST
6TH	21	Islam in India- Structural system and ornamentation (Jami Masjid)
	22.	Islam in India- Structural system and ornamentation (Jami Masjid)
	23	Islam in India- Structural system and ornamentation (Iron pillar)
	24	Islam in India- Structural system and ornamentation (Iron pillar)
7TH	25	Islam in India- Structural system and ornamentation (Alai Darwaza)
	26	Islam in India- Structural system and ornamentation (Alai Darwaza)
	27	Provincial styles – Jaunpur (Jama Masjid) planning principals
	28	Provincial styles – Jaunpur (Jama Masjid)Construction methods/ materials
8 TH	29.	Provincial styles – Bijapur (Gol Gumbaz) planning principals
	30.	Provincial styles – Bijapur (Gol Gumbaz) Construction methods/ materials
	31.	Mughal Architecture- General architectural characteristics to understand architectural vocabulary.
	32	Mughal Architecture- General architectural- Planning principles in (Humayun Tomb)
9TH	33	Mughal Architecture- General architectural- construction methods in (Humayun Tomb)
	34.	Mughal Architecture- General architectural- Garden planning in (Humayun Tomb)
	35	Mughal Architecture- General architectural- Planning principles in (Red Fort)
	36	Mughal Architecture- General architectural- construction methods in (Red Fort)
₁₀ тн	37	Mughal Architecture- General architectural- Planning principles in (Fatehpur Sikri)
	38	Mughal Architecture- General architectural- construction methods in (Fatehpur Sikri)
	39.	Mughal Architecture- General architectural- Planning principles in (Taj Mahal at Agra)
	40	2ND SESSIONAL TEST
11™	41.	Mughal Architecture- General architectural- construction methods in (Taj Mahal at Agra)
	42.	Mughal Architecture- General architectural- Garden planning in (Taj Mahal at Agra)
	43.	Mughal Architecture- General architectural- Planning principles in (Jama Masjid Delhi)

	44	Mughal Architecture- General architectural- construction methods in (Jama Masjid Delhi)
12TH	45.	Modern Architecture- Emergence of modern architecture in Europe
	46	Modern Architecture- Emergence of modern architecture social & technological.
	47	Aesthetic concerns of modern movement.
	48	Modern Architecture- New building materials (Concrete, steel and glass) and their architectural expression

13 TH	49	Modern Architecture- Philosophy and key works of Walter Gropius
	50	Modern Architecture- Philosophy and key works of Frank Lloyd Wright
	51	Modern Architecture- Philosophy and key works of Mies Van De Rohe
	52	Contemporary/ Post Independence Architecture in India
₁₄ TH	53	Key works of Le Corbusier in India
	54	Planning of Chandigarh by Le Corbusier
	55	Key works of Charles Correa
	56	Key works of B.V Doshi
15 TH	57	Key works of Joseph Allen stein
	58	Indian habitat centre,new delhi
	59	Key works of Raj Rewal
	60	3RD SESSIONAL TEST

NAME OF THE FACULTY	:	RAJESH KUMAR
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	4 th
SUBJECT	:	STRUCTURE MECHANICS
LESSION PLAN DURATION	:	15 WEEKS
WORK LOAD PER WEEK	:	05

	Theory			
Week	Lecture Day	Торіс		
	1	Introduction of Structure mechanics.		
	2	Force system and Equilibrium		
1 ST	3	Force: Definition and its effect, characteristics.		
	4	Force: Definition and its representation.		
	5	Force: Definition and its types of forces		
	6	Force Systems: Coplanar force systems		
	7	Force Systems: Non coplanar force systems		
2 ND	8	Types of coplanar Forces: Collinear, Concurrent		
	9	Types of coplanar Forces: Parallel, Non concurrent		
	10	Types of coplanar Forces: Non concurrent and Non parallel.		
	11	Resultant force		
	12	Resultant force and components of a force		
3 RD	13	Laws of forces: Parallelogram		
	14	Laws of forces: Triangle and polygon Laws of forces		
	15	Laws of forces: polygon Laws of forces		
	16	Free Body Diagram		
4 ^{тн}	17	Lamis theorem		
	18	Calculation of resultant of coplanar force systems		
	19	Concept of Moment, Characteristics of moment.		

	20	Resultant moment, Varignon's theorem			
5 TH	21	Concept of couple, moment of a couple			
	22	Equilibrium of rigid bodies			
	23	Centroid and Moment of Inertia			
	24	Definition of centre of Gravity and Centroid			
	25	SESSIONAL TEST - 1			
	26	Centroid by method of moments of areas for square, rectangular, triangular cross- sections			
6 ^{тн}	27	Centroid by method of moments of areas for L-shape, T-shape and I shape cross- sections			
	28	Moments of Inertia by methods of moments and Radius of Gyration			
	29	Parallel axis theorem			
	30	Perpendicular Axis Theorem (no derivation)			
	31	Numerical on moment of inertia of Rectangular, Triangular and Circular			
	32	Stress and Strain			
7'"	33	Elasticity, Elastic limit			
	34	Definition of stress and strain			
	35	Types of stress and strain			
	36	Stress strain curve for mild steel			
	37	Hook's Law (Numerical)			
8 TH	38	Shear Force and Bending Moment			
	39	Types of loads- Dead load, Live load, snow, wind and seismic loads			
	40	Types of loads- Wind and seismic loads			
	41	Types of loading: Point load, Uniformly distributed load			
	42	Types of loading: uniformly varying load.			
9 ^{тн}	43	Types of Beams: Simply supported, cantilever			
	44	Types of Beams: Overhanging and continuous beams			
	45	Types of Supports: Hinged, fixed supports.			
	46	Types of Supports: types of reactions provided by each type of support.			
	47	Types of Beams: Simply supported, cantilever beams			
10 ™	48	Types of Beams: overhanging and continuous beams			
	49	Types of Beams: Simply supported, cantilever, overhanging and			
	50				
	50	Concept of bending moment			
11 TH	51	Concept of shear force			

	53	Bending moment and shear force diagrams for simply supported subjected to point loads				
	54	Bending moment and shear force diagrams for cantilever subjected to point loads				
	55	Bending moment and shear force diagrams over hanging beams subjected to point loads				
	56	Bending moment and shear force diagrams for simply supported subjected to uniformly distributed loads				
	57	Bending moment and shear force diagrams for cantilever subjected to uniformly distributed loads				
12 TH	58	Bending moment and shear force diagrams for overhanging beams subjected to uniformly distributed loads only				
	59	Calculation of location and magnitude of Max Bending moment and point of contraflexure				
	60	Calculation of location and magnitude of Max Bending moment				
	61	Calculation of point of contraflexure				
	62	Bending stresses in Beams				
13 ^{тн}	63	Introduction: Tension, compression				
	64	Simple Bending and assumption of Simple Bending Theory.				
	65	Position of Neutral Axis				
	66	Section Modulus.				
	67	Moment of Resistance.				
14 TH	68	Application of flexure equation (M/I = f/y = E/R)				
	69	Maximum and permissible bending stresses				
	70	Analysis of Perfect Frames				
	71	Types of pin jointed frames.				
	72	Assumptions in computing the forces in members of a perfect frame.				
15 [™]	73	Analysis of perfect frames by method of joints.				
	74	Analysis of perfect frames by method of joints.				
	75	SESSIONAL TEST - 3				

NAME OF THE FACULTY	:	PARDIP KUMAR MITTAL
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	4 th
SUBJECT	:	BUILDING BYE LAWS
LESSION PLAN DURATION	:	15 WEEKS
WORK LOAD PER WEEK	:	03

	Theory				
Week	Lecture Day	Торіс			
	1	Introduction of building bye laws			
1 ST	2	Need of building bye-laws for urban development.			
	3	Basic Terminology of building bye-laws			
	4	Factors affecting planning of bye-laws			
2 ND	5	Light and ventilation			
	6	Mass			
	7	Volume			
3 RD	8	Open space			
	9	Skyline			
	10	Setbacks.			
4 ^{тн}	11	Parking and Fire Safety			
	12	Floor Area Ratio			
	13	Floor space index			
5 TH	14	Bye laws			
	15	SESSIONAL TEST - 1			
	16	Study Building Bye-laws			
6 ^{тн}	17	Study Building Bye-laws of local development authorities			
	18	Introduction to National Building Code.			
7 TH	19	Zoning			
/	20	Concept of zoning			

	21	Objectives of zoning		
	22	Types of zoning OF residential		
8 TH	23	Types of zoning OF commercial building		
	24	Types of zoning OF other building		
	25	Types of zoning OF other building		
9 ^{тн}	26	Case Study of existing residential with respect to implementation of local Bye laws		
	27	Case Study of commercial building with respect to implementation of local Bye laws		
	28	Case Study of existing residential with respect to implementation of local Bye laws		
10 TH	29	Case Study of commercial building with respect to implementation of local Bye laws		
	30	SESSIONAL TEST - 2		
	31	Study of various Performas to be used		
11 th	32	BIS By-laws/standards for removing Architectural		
	33	CPWD By-laws/standards for removing Architectural		
	34	Barriers for persons with disabilities (PWDs)		
12 TH	35	Introduction to seismic zoning		
	36	Introduction to earthquake		
	37	Introduction to seismic & earthquake		
13 [™]	38	resistant regulations		
	39	Code provisions (IS-1893)		
	40	seismic zoning		
14 TH	41	Preparation of one set of municipal drawing of a residential building already		
	42	Preparation of one set of municipal drawing of a commercial already		
	43	Designed in A.D. showing all services along with performas.		
15 [™]	44	Designed in A.D. showing all services along with performas.		
	45	SESSIONAL TEST - 3		

NAME OF THE FACULTY	:	PARDIP KUMAR MITTAL
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	4 th
SUBJECT	:	WORKING DRAWING - 1
LESSION PLAN DURATION	:	15 WEEKS
WORK LOAD PER WEEK	:	06

WEE	PRACTICAL		
	PRACTICAL DAY	ΤΟΡΙϹ	
4 GT	1	Introduction of working drawing.	
Ter	2	Preparation of working drawings for a simple single room.	
2 ND	3	Preparation of working drawings for a simple single storeyed residential building:	
_	4	Site Plan	
3rd	5	Preparing site plan on a suitable scale	
	6	Preparing site plan on a suitable scale with complete dimensionin	
4 ^{тн}	7	Showing plot area, covered/built-up portion within the site.	
	8	Showing Approach road, side roads, adjoining buildings/features,	
етн	9	SESSIONAL TEST-1	
5	10	Showing boundary wall with gates layout plan	
6 ^{тн}	11	Showing sewage pipes, water supply pipes, rain-water pipes	
	12	Preparation of foundation layout plan with benchmark	
7 TH	13	Preparation of section details of foundations for brick external wall	

	14	Preparation of brick internal wall, brick partition wall.
8 TH	15	Preparation of brick toe wall, brick boundary wall and R.C.C Column.
	16	Preparation of R.C.C Column.
	17	Preparation of Ground Floor plan with dimensions
9 ^{1H}	18	Preparation of specifications of various building components, schedule of joinery i.e. doors, window ventilators etc.
1 OTH	19	Showing the layout of sewage pipes, water supply pipes, Rain water pipe.
10	20	SESSIONAL TEST-2
4 4 TH	21	Preparation of terrace plan with the rain water disposal details and overhead water tank (Tile Terrace/Gola/Coba etc)
11'"	22	Preparation of terrace plan with the rain water disposal details and overhead water tank (Tile Terrace/Gola/Coba etc)
12 TH	23	Cross and longitudinal sections representing relationship with plans and elevation showing all heights, specifications, cill/lintel details etc.
	24	Cross and longitudinal sections representing relationship with plans and elevation showing all heights, specifications, cill/lintel details etc.
4 e TU	25	Front and rear elevations showing all the levels on faced to relate it to plan and section
12	26	Details of: -Toilet (Plan, Elevations as required)
1 ATH	27	Details of: - Sections as required Toilet with specifications and details
14	28	Details of: - Kitchen (Plan, Elevations as required) with specifications and details
1 ETH	29	Details of: - Sections as required Kitchen with specifications and details
15 ^{'n}	30	SESSIONAL TEST-3

NAME OF FACULTY	:	SUNIL RAI
DISCIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	4TH
SUBJECT	:	COMPUTER APPLICATIONS IN
		ARCHITECTURE - I
LESSON PLAN DURATION	:	15 WEEKS
WORK LOAD (LECTURE/	:	4 PERIODS
PRACTICAL) PER WEEK		

		PRACTICAL
WEEK	PRACTICAL DAY	TOPIC
1 st	1	Introduction to AutoCAD: Starting up, practice on – how to create a new drawing file, setting drawing limits & saving a file.
2 ND	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
3 RD	3	Practice on Modify commands such as erase, copy, mirror, array, offset, rotate, oops, undo, redo, scale, stretch command
4 ^{тн}	4	Practice on Text commands: editing text, text size, text styles, change properties commands
5 [™]	5	SESSIONAL TEST-1
6 [™]	6	Practice on trim, break, extend, chamfer, fillet, O snap command; Draw orthographic views of simple objects
7 [™]	7	Practice on Layer Commands: creating layer, freeze, layer on/off, lock & unlock layer, move from one layer to other.
8 TH	8	Practice on Layer Commands: color assigning, current layer, load line type; Practice on hatching,
9 ^{тн}	9	Practice on Dimensioning, linear dimensioning, angular dimensioning radius/diameter dimensioning, snap command, aligned dimensioning; applying tolerance; Editing of dimensioning
10 ^{тн}	10	SESSIONAL TEST-2
11 [™]	11	Practice on print commands. Export commands Practice on plot commands. Import commands
12 TH	12	Practice on making complete drawings of 2 Dimensional geometrical figures using AUTOCAD (2D)
13 [™]	13	Practice on making complete drawings of composition of 2 Dimensional geometrical figures using AUTOCAD (2D)

14 [™]	14	Practice on making complete Single storey plan of using AUTOCAD (2D)
15 [™]	15	SESSIONAL TEST-3

NAME OF THE FACULTY	:	SEREBDEEP KAUR
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	4 th
SUBJECT	:	ARCHITECTURAL DESIGN - III
LESSION PLAN DURATION	:	15 WEEKS
WORK LOAD PER WEEK	:	08

	Theory				
Week	Lecture Day	Торіс			
4 ST	1	Introduction about design, Introduction about Health centre, Framing of Requirement, Inter- relation of various spaces and circulation pattern.			
10.	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			
OND	3	Report working of the Health Centre visitef with sketches			
2	4	Discussion and viva voce of report			
2 RD	5	Preliminary design started with concept plan			
5.2	6	Discussion and finalization of rough plan			
	7	Preliminary of G.F plan & Site plan			
4 TH	8	Completion of all floor plans with furniture layout & rendership, Elevation section and view			
STH	9	SESSIONAL TEST-1			
	10	Completion of set of plans, elevations, view with full rendering			
¢TH	11	Viva- Voce and checking of Health Centre Project			
0	12	Viva- Voce and checking of Health Centre Project			
7 TH	13	Site Visit to Shopping Complex			

	14	Test of Shopping Complex
отн	15	Test of continued
0	16	Viva- Voce of Shopping Complex Drawings
	17	Introduction about nursery school project framing of requirements, inter- relation of spaces and circulation pattern.
9 ^{тн}	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.
10 TH	19	Report marking of Nursery school visited in previous week. Discussion and finalization of rough plan
	20	SESSIONAL TEST-2
4 4 TH	21	Preliminary design started with conceptual plan.
11	22	Discussion and finalization of rough plan.
4 oTH		
1 2 TH	23	Preparation of ground floor plan, site plan.
12 ^{тн}	23 24	Preparation of ground floor plan, site plan.Completion of plans with furniture layout and rendering
12 TH	23 24 25	Preparation of ground floor plan, site plan.Completion of plans with furniture layout and renderingPreparation of elevation, sections and view.
12 ^{тн} 13 ^{тн}	23 24 25 26	Preparation of ground floor plan, site plan.Completion of plans with furniture layout and renderingPreparation of elevation, sections and view.Completion of set of all nursery school drawings with full rendering.
12 ^{тн} 13 ^{тн} 14 ^{тн}	23 24 25 26 27	Preparation of ground floor plan, site plan.Completion of plans with furniture layout and renderingPreparation of elevation, sections and view.Completion of set of all nursery school drawings with full rendering.Viva- Voce Exam
12 ^{тн} 13 ^{тн} 14 ^{тн}	23 24 25 26 27 28	Preparation of ground floor plan, site plan.Completion of plans with furniture layout and renderingPreparation of elevation, sections and view.Completion of set of all nursery school drawings with full rendering.Viva- Voce ExamViva- Voce and checking of Drawings
12 ^{тн} 13 ^{тн} 14 ^{тн}	23 24 25 26 27 28 29	Preparation of ground floor plan, site plan.Completion of plans with furniture layout and renderingPreparation of elevation, sections and view.Completion of set of all nursery school drawings with full rendering.Viva- Voce ExamViva- Voce and checking of DrawingsCompletion of all pending works / drawings

NAME OF THE FACULTY	:	RAJESH KUMAR
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	2nd
SUBJECT	:	ARCHITECTURAL DRAWING -II
LESSION PLAN DURATION	:	15 WEEKS
WORK LOAD PER WEEK	:	06

Practical		
Week	Practical Day	Торіс
	1	Introduction about the subject.
1 ST	2	Reviewing orthographic projections (1 sheet):
	3	Reviewing orthographic projections (plans)
	4	Reviewing orthographic projections (line projections)
	5	Reviewing orthographic projections (solids) (1 sheet)
2 ND	6	Section of Solids(4 sheets): Simple geometrical shapes e.g. cube: Elementary building sections highlighting line intensities for sectional components (Example: parapet, chajjas in section) (1 sheet)
	7	Simple geometrical shapes e.g. cube: Elementary building sections highlighting line intensities for elevational components (Example: parapet,chajjas in section and elevation behind) (1 sheet)
3 RD	8	Simple geometrical shapes e.g. cube: Elementary building sections highlighting line intensities for sectional and elevational components(Example: parapet,chajjas in section and elevation behind) (1 sheet)
	9	Simple geometrical shapes e.g. cube: Elementary building sections highlighting line intensities for sectional and elevational components(Example: parapet,chajjas in section and elevation behind) (1 sheet)
-711	10	Development of surface of various geometrical shapes (1 sheets): (Development with an aim to calculate areas)
4 ^{1H}	11	Development of surface (Development with an aim to calculate areas)
	12	Development of surface (Development with an aim to calculate areas)

5 TH	13	Development of surface (Development with an aim to calculate areas)
	14	Development of surface (Development with an aim to calculate areas)
	15	SESSIONAL TEST- 1
	16	Isometric Views of various geometrical shapes (3 sheets): Conversion of 2D geometrical shapes into 3D isometric views
6 TH	17	Conversion of 2D geometrical shapes into 3D isometric views $(300 - 300)$ to realize the potential of each from simple to complex solid to basic building
	18	Conversion of 2D geometrical shapes into 3D isometric views $(300 - 300)$ to realize the potential of each from simple to complex solid to basic building
7 TH	19	Conversion of 2D geometrical shapes into 3D isometric views $(300 - 300)$ to realize the potential of each from simple to complex solid to basic building
	20	Conversion of 2D geometrical shapes into 3D isometric views $(300 - 600)$ to realize the potential of each from simple to complex solid to basic building
	21	Conversion of 2D geometrical shapes into 3D isometric views $(300 - 600)$ to realize the potential of each from simple to complex solid to basic building
8 TH	22	Conversion of 2D geometrical shapes into 3D isometric views $(300 - 600)$ to realize the potential of each from simple to complex solid to basic building
	23	Conversion of 2D geometrical shapes into 3D isometric views $(300 - 600)$ to realize the potential of each from simple to complex solid to basic building
	24	Isometric Views (3 sheets) Conversion of 2D geometrical shapes into 3D isometric views (300 – 300), 300 –600) to realize the potential of each from simple to complex solid to basic building forms
9тн	25	Isometric Views (3 sheets) Conversion of 2D geometrical shapes into 3D isometric views (300 – 300), 300 –600) to realize the potential of each from simple to complex solid to basic building forms
	26	Isometric Views (3 sheets) Conversion of 2D geometrical shapes into 3D isometric views (300 – 300), 300 –600) to realize the potential of each from simple

		to complex solid to basic building forms
		Isometric Views (3 sheets)
	27	Conversion of 2D geometrical shapes into 3D isometric views
	21	(300 - 300), $300 - 600$) to realize the potential of each from simple
		to complex solid to basic building forms
		Isometric Views (3 sheets)
	•	Conversion of 2D geometrical shapes into 3D isometric views
	28	(300 - 300), $300 - 600$) to realize the potential of each from simple
		to complex solid to basic building forms
10TH		Isometric Views (3 sheets)
10	• •	Conversion of 2D geometrical shapes into 3D isometric views
	29	(300 - 300), $300 - 600$) to realize the potential of each from simple
		to complex solid to basic building forms
	30	SESSIONAL TEST- 2
		Axonometric Views(5 sheets): Conversion of 2D geometrical
		shapes into 3D axonometric views at different angles $(450 - 450)$
	31	to realize the potential of each from simple to complex solid to
		basic building forms
		Conversion of 2D geometrical shapes into 3D axonometric views
11 TH	32	at different angles $(450 - 450)$ to realize the potential of each from
	-	simple to complex solid to basic building forms
	33	Conversion of 2D geometrical shapes into 3D axonometric views
		at different angles $(450 - 450)$ to realize the potential of each from
		simple to complex solid to basic building forms
		Conversion of 2D geometrical shapes into 3D axonometric views
	34	at different angles $(450 - 450)$ to realize the potential of each from
		simple to complex solid to basic building forms
		Conversion of 2D geometrical shapes into 3D axonometric views
12 TH	35	at different angles $(450 - 450)$ to realize the potential of each from
		simple to complex solid to basic building forms
		Conversion of 2D geometrical shapes into 3D axonometric views
	36	at different angles $(450 - 450)$ to realize the potential of each from
		simple to complex solid to basic building forms
		Isometric/axonometric use of any building form, from a given
	37	base plan – to be developed as per the student's imagination of the
13 TH		exterior/interior components (with roads, landscape elements)
10	38	Isometric/axonometric use of any building form, from a given
		base plan – to be developed as per the student's imagination of the
		exterior/interior components (with roads, landscape elements)

	39	Isometric/axonometric use of any building form, from a given base plan – to be developed as per the student's imagination of the exterior/interior components (with roads, landscape elements)
14 ^{тн} 15 ^{тн}	40	Isometric/axonometric use of any building form, from a given base plan – to be developed as per the student's imagination of the exterior/interior components (with roads, landscape elements)
	41	Isometric/axonometric use of any building form, from a given base plan – to be developed as per the student's imagination of the exterior/interior components (with roads, landscape elements)
	42	Isometric/axonometric use of any building form, from a given base plan – to be developed as per the student's imagination of the exterior/interior components (with roads, landscape elements)
	43	Isometric/axonometric use of any building form, from a given base plan – to be developed as per the student's imagination of the exterior/interior components (with roads, landscape elements)
	44	Isometric/axonometric use of any building form, from a given base plan – to be developed as per the student's imagination of the exterior/interior components (with roads, landscape elements)
	45	SESSIONAL TEST- 3

NAME OF THE FACULTY	:	SH. PARDIP K. MITTAL
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	2nd
SUBJECT	:	BUILDING MATERIALS AND CONTRUCTION TECHNOLOGY -I
LESSION PLAN DURATION	:	15 WEEKS
WORK LOAD PER WEEK	:	03(T) + 04(P)

Week	Theory				
WEEK	Lecture Day	Торіс			
	1.	Introduction to BUILDING MATERIALS			
1ST	2.	Building Stones			
	3.	Classification of rocks			
	4.	Practical Drawing of various types of stone masonry			
	5.	Characteristics and utility of good building stones			
2 ND	6.	Testing Water absorption, Compressive strength and Durability test			
2	7.	Natural bed of stones, its effective and correct placement in building			
	8.	Practical Drawing of various types of stone masonry			
	9.	Common building stones			
3 RD	10.	Granite, Basalt and Trap, Sandstone, Lime stone, Slate, Marble			
5	11.	Their composition, Properties, uses and their origin			
	12.	Practical Sketches of different type of stone facing			
	13.	Their transportation and storage Techniques			
	14.	Selection of stones for different building works			
4 TH	15.	Characteristics and classification of stone masonry			
	16.	Practical Sketches of different type of stone facing			
17.		Advantages and Disadvantages of different types of stones			
5 TH	18.	Suitability to differentelements of building			
	19.	SESSIONAL-I			
	20.	Practical Drawing of different shapes and sizes of bricks			

	21.	Bricks
-711	22.	Sizes, classification and Composition of bricks
6 TH	23.	Properties and uses of first class and second class bricks, clay and burnt bricks
	24.	Practical Drawing of different shapes and sizes of bricks
	25.	Characteristics of a good brick including size and weight of a standard brick
7 TH	26.	Test for burnt clay bricks Compressive strength, Water absorption & efflorescence
	27.	Fire bricks, its properties
	28.	Practical Drawing of different shapes and sizes of bricks
	29.	Uses and availability.
	30.	Stretcher and header courses in various wall thickness,
8 TH	31.	T-junctions and Cross-junction in ½, 1 and 1½ thick brick wall
	32.	Practical Drawings of different bonds in different wall thickness, T-junctions, cross junction
	33.	Different types of bonds - English, Flemish and Rat Trap Bond in different wall width
9 ^{тн}	34.	Advantages and Disadvantages of different Bonds
	35.	Advantages and Disadvantages of different types of bricks and their suitability to differentelements of building
	36.	Practical Foundation detail for brick pier and column foundation
	37.	Foundation
	38.	Different types of foundations (normal and eccentric)
10 th	20	
	37.	SESSIONAL-II
	40.	Practical Drawing of spread foundation, toe wall and verandah steps foundation
11 th	41.	Brief knowledge of different types of foundations in basements

	42.	Foundations for columns and verandah steps
	43.	Openings in Walls
	44.	Practical Reinforced brick work and jallies
	45.	Classification of arches and lintels as per finish, shape and material
	46.	Brick jallies and reinforcement
12 TH	47.	Brick jallies in ½ and 1 thick brick wall in English and Flemish Bond
	48.	Practical Drawings of lintels and arches of various materials and various wall thickness
	49.	SESSIONAL-II
	50.	Damp Proof Course
13 th	51.	Explanation of DPC and reasons for its use.
	52.	Practical Demonstration Showing of Damp proof course in a horizontal and vertical brick wall
	53.	Sources of dampness
	54.	Effects of dampness
14 ^{1H}	55.	Classification as per hardness of material
	56.	Practical-7 Demonstration Showing of Damp proof course in a horizontal and vertical brick wall.
	57.	BIS stipulations of damp proofing
15 th	58.	Practical-9 Application of DPC on spread foundation and basements
	59.	Treatment of Building component for effective damp proofing
	60.	SESSIONAL III

NAME OF THE FACULTY	:	SH. RAJESH KUMAR
DISCIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	2 nd Sem
SUBJECT	:	SURVEYING
LESSON PLAN DURATION	:	15 WEEKS

WORK LOAD PER WEEK : 03(T) +04(P) =07

WEEK	ΙΕΛΤΙΙΟ	THEORY & PRACTICAL
EDAY		TOPIC
4 CT	1.	Introduction:
131	2.	Basic principles of surveying and types of surveying
	3.	Concept of surveying
Ond	4.	Purpose of surveying
Z ^{nu}	5.	Measurements-linear and angular, units of measurements
	6.	Instruments used for taking these measurement
3rd	7.	Classification of survey based on instruments
8.		Compass surveying: Purpose of compass surveying,
	9.	Construction andworking of prismatic compass
4 th	10.	Use of prismatic compass: Setting and taking observations
	11.	Practical Exercises of compass surveying
	12.	Concept of: (a) Meridian – Magnetic and true
5 th	13.	b) Bearing - Magnetic, Trueand Arbitrary
	14.	Practical Exercises of compass surveying
	15.	SESSIONAL TEST-I

6 th	16.	Whole circle bearing and reduced bearing Fore and back bearing
	17.	Local Attraction-causes, Detection & precautions against local attraction
	18.	Levelling: Purpose and concept of leveling, horizontal & vertical surface, datum, reduced level and bench marks
7 th	19.	Various parts of Dumpy level & uses of dumpy level
	20.	Concepts of line of collimation, axis of the bubble tube, axis of the telescope and vertical axis.
	21.	Auto level: advantage and disadvantage, use of auto level
Q th	22.	Practical Exercises of leveling.
0	23.	Temporary adjustment: permanent adjustment of dumpy level by two peg method.
	24.	Concept of back sight, foresight, intermediate sight.
Q th	25.	Station change point, determines reduced levels.
	26.	Level book and reduction of levels by - Height of instrument method
	27.	Level book and reduction of levels by -Rise and fall method
10 th	28.	Level book and reduction of levels by - Height of instrument method, Rise and fall method
	29.	Practical Exercises of leveling.
	30.	SESSIONAL TEST-II
11 th	31.	Plane Table Surveying: Purpose of plane table surveying.
	32.	Equipment used in plane table survey
	33.	Plane table Surveying and its accessories
12 th	34.	Equipment used in plane table survey
	35.	Plane table Surveying and its accessories

	36.	Setting of a plane table:(a) Centering (b) Leveling (c) Orientation
13 th 37.		. Methods of plane table surveying Two Point Problem
	38.	(a) Radiation, (b) Intersection
	39.	(c)Traversing (d) Resection
14 th	40.	Practical Exercises of Plane Table Surveying
	41.	Introduction of Digital Instruments:
	42.	Auto level and theodolite
15^{th}	43.	Total station and EDM instruments
	44.	GPS and GI System
	45.	SESSIONAL TEST-III

NAME OF THE FACULTY	:	SMT SEREBDEEP KAUR
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	2 ND
SUBJECT	:	THEORY OF DESIGN
LESSION PLAN DURATION	:	15 WEEKS
WORK LOAD PER WEEK	:	03 (L) + 2 (P)

Theory & Practical		
	Торіс	
1 ST	Introduction to Theory of Design. Study of Elements of Design such as Point, Line, Form, Space, Colour, Mass, Figure, Plane, Shape, Volume. Requirement of space (2-D) for various human activities (Single and multiple use of spaces such as queues etc.) (sketches to be made in sketchbook)	
2 ND	Study of Principles of Design such as Harmony, Balance, Proportion, Scale. Furniture standards (sizes of domestic and public furniture); Toilet and Kitchen equipment - sizes and standards (sketches to be made in sketchbook)	
3 RD	 Study of Principles of Design such as Rhythm, Texture, Contrast, Monotony, Unity. Color chart showing primary, secondary and tertiary colors Study of a Guard Room w.r.t. spaces and layout of furniture for various activities. (sketches to be made in sketchbook) 	
4 TH	Warm and cool colors, Receding and advancing colors, Psychological effects of colorsStudy of a Florist Kiosk w.r.t. spaces and layout of furniture for various activities. (sketches to be made in sketchbook)	
5 TH	SESSIONAL TEST-I	
6 TH	Study of a Gift/souvenir shop to be presented through plans, elevation, section, sketches etc.) (sketches to be made in sketchbook)	
7 TH	Study of a Milk Bar to be presented through plans, elevation, section, sketches etc.) (sketches to be made in sketchbook)	
8 TH	Design a Weekend Cottage (Drawings to be prepared: Site plan, Plans, Section, Elevations, Views, and Block Model etc.) (Sheet-1)	
9 TH	Design a WeekendCottage (Drawings to be prepared: Site plan, Plans, Section, Elevations, Views, and Block Model etc.) (Sheet-1)	
10 TH	SESSIONAL TEST -II	
11 TH	Time Problem Design a Café (Drawing required Plan showing furniture layout and section. (Sheet-1)	

12 TH	Time Problem Design a Traffic police kiosk (Drawing required Plan showing furniture layout and section. (Sheet-1)
13 TH	Time Problem Design a Entrance gate of school (Drawing required Plan showing furniture layout and section.(Sheet-1)
14 TH	Time Problem Design a Bus shelter (Drawing required Plan showing furniture layout and section(Sheet-1)
15 TH	SESSIONAL TEST-III

NAME OF THE FACULTY	:	SH.SUNIL RAI
DISCIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	2 nd Sem
SUBJECT	:	FUNDAMENTALS OF IT
LESSON PLAN DURATION	:	15 WEEKS
WORK LOAD PER WEEK	:	02(T) +04(P) =06

WEEK	LECTUR EDAY	THEORY & PRACTICAL
		TOPIC
1 st	1.	Basic of Computer Breif History of dévelopment of computers and its définitions
	2.	Block diagram of a computer, , Hardware, Software, Booting: Cold and Hot Booting
	3.	Interaction between the CPU and Memory with Input/output devices, Function of CPU and major functional parts of CPU.
and	4.	Memory, Bit, Nibble, Byte, KB, MB, GB, TB, PB.
2	5.	Functions of memory, Use of storage devices in a Computer,
	6.	List types of memory used in a Computer.
3 rd	7.	Importance of cache memory, CPU speed and CPU word length
	8.	Practical Exercises of Browser, Digital India portals.
	9.	Basic Internet Skills Understanding browser, Introduction to WWW, efficient use of search engines.
4 th	10.	Awareness about Digital India portals (state and national portals) and college portals.
	11.	Advantages of Email, Various email service providers.

	12.	Creation of email id, sending and receiving emails, attaching documents with email and drive
5 th		Effective use of Gmail, G-Drive, Google Calendar, Google
	13	Sites, Google Sheets. Online mode of communication using
	13.	Google Meet & WebEx.
		Practical Exercises of Read Wikipedia pages Using
	14.	Administrative Tools-Control Panel setting
	15.	SESSIONAL TEST-I
-41-		Basic Logic building
6 ^m	16.	Introduction to Programming Stops involved in problem
		solving,
	17.	Definition of Flowchart, Steps involved in algorithm
		Flowchart, symbols used in flowcharts, algorithms for simple
	18.	problems, flowcharts for simple problems.
7 th	19.	Practice logic building using flowchart/algorithms
	20.	Practical Exercises of printer, scanner, MS-Office
		Office Teels
	21	Office roots
	21.	Office Tools like Libre Office/Open Office/MSOffice.
		Open Office Writer – Typesetting Text and Basic
8 th	22.	Formatting
		Tormatting
	22	Inserting Images, Hyperlinks, Bookmarks,.
	23.	
	24.	Tables and Table Properties in Writer
Oth	25.	Bookmarks, Tables and Table Properties in Writer
7111	26.	Introducing Libre Office/Open Office Calc,
	27.	Working with Cells, Sheets, data, tables.
	28.	Using formula and functions, using charts and graphics.

10 th	29.	Practical Exercises of Conversion Software(PDf to World & World to PPT), Mobile Applications (Installation & Setting)
	30.	SESSIONAL TEST-II
11 th	31.	Open Office Impress – Creating and Viewing Presentations.
	32.	Inserting Pictures and Tables,
	33.	SlideMaster and Slide Design.
12 th	34.	Custom Animation
	35.	Use of Social Media
	36.	Introduction to Digital Marketing
13 th	37.	Practical Exercises of Creating email id, Using Google drive, calendar
	38.	Characteristics of Digital Marketing
	39.	Tools for Digital Marketing
14 th	40.	Effective use of Social Media like LinkedIn
	41.	Google+,Facebook, Twitter, etc
	42.	Features of Social media.
15 th	43.	Practical Exercises of Create Flow chart and Algorithm
	44.	Advantages and Disadvantages of Social Media.
	45.	SESSIONAL TEST-III

NAME OF THE FACULTY	:	SH. GURDEEP MALIK
DISIPLINE	:	ARCHITECTURAL ASSISTANTSHIP
SEMESTER	:	2 ND
SUBJECT	: MA	ENVIRONMENTAL STUDIES AND DISASTER
LESSION PLAN DURATION	:	15 WEEKS
WORK LOAD PER WEEK	:	02

	THEORY			
Week	LECTURE	Торіс		
	Day			
1 ST	1	Introduction of Environmental Studies		
	2	Basics of ecology, eco system- concept, and sustainable development, Sources		
2 nd	3	Advantages, disadvantages of renewable and nonrenewable energy.		
	4	Rain water harvesting, Deforestation – its effects & control measures		
3 rd	5	Air and Noise Pollution		
	6	Air Pollution: Source of air pollution		
∕th	7	Effect of air pollution on human health, economy,		
4	8	Air pollution control methods:		
≂th	9	Noise Pollution Source of noise pollution, Unit of noise,		
5 ^m	10	Effect of noise pollution, Acceptable noise level, Effect of noise pollution, Acceptable noise level,		
6 th	11	Different method of minimizing noise pollution.		
	12	SESSIONAL-I		
7th	13	Water and Soil Pollution, Impurities in water, Cause of water pollution, Source of water pollution.		
	14	Effect of water pollution on human health, Concept of DO, BOD, COD		
8 TH	15	Prevention of water pollution- Water treatment processes		

	16	Sewage treatment. Water quality standard, Soil Pollution Sources of soil pollution,
9 th	17	Effects and Control of soil pollution
	18	Types of Solid waste- House hold, Industrial, Agricultural, Biomedical, Disposal of solid waste, Solid waste management E- waste, E – waste management
10 th	19	Impact of Energy Usage on Environment
	20	SESSIONAL II
11 th	21	Global Warming, Green House Effect, Depletion of Ozone Layer, Acid Rain. Eco-friendly MATERIAL
	22	Recycling of Material, Concept of Green Buildings, Concept of Carbon Credit & Carbon footprint.
12 th	23	Disaster Management Different Types of Disaster
	24	Natural Disaster: such as Flood, Cyclone, Earthquakes and Landslides etc.
13 th	25	Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters
	26	Accidents (Air, Sea Rail & Road), Structural failures(Building and Bridge), War & Terrorism etc.
14 th	27	Disaster Preparedness:
	28	Disaster Preparedness Plan
		Prediction, Early Warnings and Safety Measures of Disaster
15 th	29	Psychological response and Management (Trauma, Stress, Rumour and Panic)
		SESSIONAL III