

LESSON PLAN

Programme Name	3 Years Diploma in Architecture Assistantship
Course/Subject Name	Building Bye Laws And Working Drawing
Course/Subject Code	4.5
Course/Subject Co-ordinator Name	Prem Chand Sharma

Evaluation Scheme

Sr. no.	Subject Name	Study Scheme(Hrs/Week)	Marks in Evaluation Scheme					
			Internal Assessment		External Assessment		External Assessment	
	Building Bye Laws A		Theory	RACTICA	Theory	RACTICA	Theory	Practical
		1Hrs	4 Hrs	50				
	Reference Books	(i)Town Planning By S.C. Rangawala						
		(II) A Course in Civil Engg. Drawing by V. B sikka						

Course Outcomes(Cos)

C.O. 1	To learn about building Bye Laws ,Zoning Plan,Architects ACT 1972, Terms used in Builing Bye Laws,FAR, FSI,Study of Bye Laws of any Town
C.O. 2	To learn about Submission of Building Drawings Such as Plans, Elevations, Sections,Site Plans,Key Plans, Voilation and Penalties and completion certificate etc.

Teaching Plan

S.N.	Name of Topic	Contets	Proposed Date	Actual Date	Remarks
1,2	1.Building Bye Laws,Development / building permit				
		1.1 Study of Builing Bye Laws(IS-1256/NBC provision and definition,Ground Floor Plans,specifications	1st & 2nd Week of April 2021		
		1.2 Necessity of framing bye laws for urban development, Principles involved in framing Bye Laws Study of local bye laws and local Zoning plans as applied to buildings their effect on design of	3rd & 4th week of April,1st&2nd week of May		
		1.3 Case Study of building bye laws of any town, Sections,site plans,scale&	3rd & 4th Week of May		
		1.4 Terminology used in Building Bye Laws,Key Plans	1st,2nd,& 3rd ,4thWeek of June		

	Completion Certificate Qualification and Competence of professionals, Introduction to compounding	1st, 3rd and 4th week of July 2021		
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ASSIGNMENTS

s.N	Assignment serial	contents of Syllabus Covered	Proposed Date	Actual	Remarks
1	A-1	30%			
2	A-2	30%			
3	A-3	80%			

House Test/Class Test

s.N.	Name of Test	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
1	Class Test-1	30% of Syllabus Covered	3rd week of May 2021		
2	Class Test-2	Next 30% of Syllabus Covered	3rd week of June 2021		
3	House Test	80% of Syllabus Covered	2nd of July 2021		

(Signature of H.O.D.)

(Signature of Teacher)

Lesson Plan Session :- MARCH-JULY -2021

Name of Teacher :- Rajeev Bhardwaj				Name of Subject:- Arch. Design-III		Sem :- 4th
S. no.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	April	1st	.1-7	Study report on Vernacular/Regional Architecture	Local case Study	
		2nd	.8-15	Study report on Vernacular/Regional Architecture	Social background, Living pattern, Planning and design study, Building materials, Construction methods ,	
		3rd	.16-22	Study report on Vernacular/Regional Architecture	Relevance to present time, Report along with seminar	
		4th	.23-30	Design of building involving two or more floors, split levels etc.	The buildings can be like Nursing Home/School/ Public library, Cultural centre	
2	May	1st	.1-7	Design of building involving two or more floors, split levels etc.	Case study of existing building types, Study of site Analysis of requirement and respective areas Circulation Analysis	
		2nd	.8-15	Design of building involving two or more floors, split levels etc.	Preparation of drawings	
		3rd	.16-22	Design of building involving two or more floors, split levels etc.	Preparation of drawings	Class Test
		4th	.23-31	Design of building involving two or more floors, split levels etc.	Preparation of drawings	
3	June	1st	.1-7	Design of building involving two or more floors, split levels etc.	Preparation of drawings	
		2nd	.8-15	Design of building involving two or more floors, split levels etc.	Preparation of drawings	
		3rd	.16-22	Design of building involving two or more floors, split levels etc.	Preparation of drawings	Class Test
		4th	.23-30	Design of building involving two or more floors, split levels etc.	Preparation of drawings	
4	July	1st	.1-7	Design of building involving two or more floors, split levels etc.	Submission of drawings /Views / Model	
		2nd	.8-15	Design of building involving two or more floors, split levels etc.	Submission of drawings /Views / Model	House Test
		3rd	.16-22	Design of building involving two or more floors, split levels etc.	Submission of drawings /Views / Model	
		4th	.23-28	Time Limit Sketch	Preparation of drawings for submission	

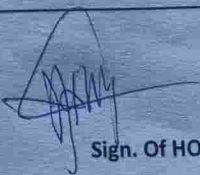
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Lesson Plan Session :- MARCH-JULY -2021

Name of Teacher :- Rajeev Bhardwaj				Name of Subject:- Comp. Graphics-II		Sem:- 4th
S. no.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	April	1st	.1-7	Dimensioning	Dimensioning Type , style , units , Dimension utilities	
		2nd	.8-15	Dimensioning	Dimension variables,Dimensioning of different drawing elements like line (horizontal, vertical, inclined), arc, circle (radius, diameter), continuous dimensioning etc,Editing	
		3 rd	.16-22	Adding text	D-text, text (adding new text and editing existing text)	
		4th	.23-30	Adding text, Plotting drawing	Text style – font types, height, width factor etc,Plot command,Selecting area for plotting,Scale of plot, scale to fit	
2	May	1st	.1-7	Plotting drawing	Selecting plotting device , Selecting paper size and type ,Selecting block and white or colored plots,	
		2nd	.8-15	Plotting drawing	Selecting appropriate print speed, quality, Print preview, Preparationj of project Drawing	
		3 rd	.16-22	Project	Preparationj of project Drawing	
		4th	.23-31	Project	Preparationj of project Drawing	
3	June	1 st	.1-7	Project	Preparationj of project Drawing	
		2 nd	.8-15	Project	Preparationj of project Drawing	
		3 rd	.16-22	Project	Preparationj of project Drawing	
		4th	.23-30	Project	Preparationj of project Drawing	
4	July	1 st	.1-7	Project	Preparationj of project Drawing	
		2 nd	.8-15	Project	Preparationj of project Drawing	
		3 rd	.16-22	Project	Preparationj of project Drawing	
		4th	.23-28	Project	Preparationj of project Drawing	


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DEPARTMENT OF ARCHITECTURAL ASSISTANTSHIP
Lesson Plan Session :- April-July.-2021


Name of Teacher :- Rajinder Kumar				Name of Subject:- ESTIMATING AND SPECIFICATION WRITING		Sem:- 4th
S.No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	April	1 st	.1-3	General	Introduction to Estimating –Definition and Types of Estimates, Various methods of Estimating, Various performs used in estimates - measurement form, abstract of cost and material statement form.	
		2 nd	.5-10	General	Units of measurement and units of payment of different items of work including building services.	
		3 rd	.12-17	General	Calculation of quantities of main items of construction.	
		4 th	19-24	General	Calculation of quantities of main items of construction.	
		5 th	26-30	General	Calculation of quantities of main items of construction.	
2	May	1 st	.1-8	General	Calculation of quantities of main items of construction.	
		2 nd	.10-15	Calculation of Quantities and Statement	Calculation of quantities of main Items of construction	
		3 rd	17-22	Calculation of Quantities and Statement	Material statements. Thumb rule methods of calculating steel in RCC.	Class Test
		4 th	24-31	Analysis of Rates	Calculation of rates of the main item of construction including the calculation of carriage of materials, schedule of rates	
3	June	1 st	.1-5	Analysis of Rates	Calculation of rates of the main item of construction including the calculation of carriage of materials, schedule of rates	
		2 nd	.7-12	Analysis of Rates	Calculation of rates of the main item of construction including the calculation of carriage of materials, schedule of rates	
		3 rd	14-19	Specifications	Principles of specifications writing; writing broad specifications of items of	Class Test
		4 th	21-26	Specifications	Principles of specifications writing; writing broad specifications of items of construction with specialreference to two storied building.	
		5 th	28-30	Accounts	Explanation of ordinary terms used in book keeping, cash book, work order, measurement book, petty cash and imprest, receipts.	
4	July	1 st	.1-3	Accounts	Explanation of ordinary terms used in book keeping, cash book, work order,	
		2 nd	.5-10			House Test
		3 rd	.12-17	Calculation of Quantities and Statement	Calculation of quantities of main Items of construction	
		4 th	19-24	Calculation of Quantities and Statement	Material statements. Thumb rule methods of calculating steel in RCC.	
		5 th	26-28	Analysis of Rates	Calculation of rates of the main item of construction including the calculation of carriage of materials, schedule of rates	

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DEPARTMENT OF ARCHITECTURAL ASSISTANTSHIP
Lesson Plan Session :- April-July.-2021

Name of Teacher :- Rajinder Kumar				Name of Subject:- BUILDING CONSTRUCTION-III		Sem:- 4th
S.No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	April	1 st	.1-3	Steel Doors and Windows	Using standard rolled Sections in frames & shutters.	
		2 nd	.5-10	Steel Doors and Windows	Using rolled sections in frames and wooden shutters.	
		3 rd	.12-17	Steel Doors and Windows	Rolling shutter	
		4 th	19-24	Steel Doors and Windows	Collapsible shutter	
		5 th	26-30	Steel Doors and Windows	Fly proof shutters	
2	May	1 st	.1-8	Steel Doors and Windows	Doors using pre stressed sheets	
		2 nd	.10-15	Steel Doors and Windows	Window using pre stressed sheets	
		3 rd	17-22	Steel Roofs	Line diagram of steel roofs for various spans.	Class Test
		4 th	24-31	Steel Roofs	Constructional details of steel roofs (North Light Truss with relevant details Etc.)	
3	June	1 st	.1-5	Steel Roofs	Roof covering: AC, GI sheets. Construction details of-Ridge cover, fixing of purlins/rafter/valleys/eaves board with gutter and RCC gutter etc.	
		2 nd	.7-12	Finishing:	Plastering and pointing	
		3 rd	14-19	Finishing:	Stone cladding and tile lining and Gravel finish.	Class Test
		4 th	21-26	Finishing:	Paneling and fibrous board finishes.	
		5 th	28-30	Finishing:	Paneling and fibrous board finishes.	
4	July	1 st	.1-3	Scaffolding & Form Work	Types of Scaffolds, Definitions of formwork, shuttering and centering.	House Test
		2 nd	.5-10			
		3 rd	.12-17	Scaffolding & Form Work	Form work for different structural members.	
		4 th	19-24	Steel Roofs	Roof covering: AC, GI sheets. Construction details of-Ridge cover, fixing of purlins/rafter/valleys/eaves board with gutter and RCC gutter etc.	
		5 th	26-28	Steel Roofs	Roof covering: AC, GI sheets. Construction details of-Ridge cover, fixing of purlins/rafter/valleys/eaves board with gutter and RCC gutter etc.	


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DEPARTMENT OF ARCHITECTURAL ASSISTANTSHIP
Lesson Plan Session :- April-July.-2021

Name of Teacher :- Vipin Katoch				Name of Subject:- STRUCTURAL DESIGN-I		Sem:- 4th
S.No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	April	1 st	.1-3	Resultant of force system & equilibrium	Force definition, SI Unit, types, system of force.	
		2 nd	.5-10	Resultant of force system & equilibrium	Resultant of concurrent forces, law of parallelogram, triangle law of forces, polygonal law of forces, resolution and addition of forces.	
		3 rd	.12-17	Resultant of force system & equilibrium	Moment of forces, statement of various theorems, resultant of non concurrent forces parallel and non-parallel forces.	
		4 th	19-24	Resultant of force system & equilibrium	Equilibrium: Concept of equilibrium, equilibrium of two and more forces, Conditions of equilibrium, graphical conditions of equilibrium body, constraints type of reaction.	
		5 th	26-30	Centre of Gravity	Centre of gravity by geometrical consideration for rectangular, triangle, semicircle. Centre of gravity of regular solids, cubes, spheres, semi-spheres, right circular cones.	
2	May	1 st	.1-8	Centre of Gravity	Centre of gravity by method of moments of area, mass or volume of regular figures, composite figures and regular figures with cut out holes.	
		2 nd	.10-15	Moment of Inertia	Meaning of terms - second moment of area, radius of gyration of a section	
		3 rd	17-22	Moment of Inertia	Theorem of parallel axis and perpendicular axis (statement only without proof)	Class Test
		4 th	24-31	Moment of Inertia	Second moment of regular figures - rectangle, triangle, circle and annular sections (formulae only)	
3	June	1 st	.1-5	Shear force and Bending moment	Definition and concepts of Shear force and bending Moment, calculations of reactions	
		2 nd	.7-12	Shear force and Bending moment	SF and BM diagrams for simply supported, over-hanging, cantilever beams subjected to concentrated or uniformly distributed loads on entire or partial span.	
		3 rd	14-19	Shear force and Bending moment	SF and BM diagrams for simply supported, over-hanging, cantilever beams subjected to concentrated or uniformly distributed loads on entire or partial span.	Class Test
		4 th	21-26	Shear force and Bending moment	SF and BM diagrams for simply supported, over-hanging, cantilever beams subjected to concentrated or uniformly distributed loads on entire or partial span.	
		5 th	28-30	Simple Stress and Strain	Concept and definitions, units, types of stresses, axial stresses in bars, strains	
4	July	1 st	.1-3	Simple Stress and Strain	Hooke's law, tensile test on mild steel, working stress and factor of safety, temperature stresses in composite bars	
		2 nd	.5-10			House Test
		3 rd	.12-17	Simple Stress and Strain	Bending stresses, neutral axis	
		4 th	19-24	Simple Stress and Strain	Symmetrical and asymmetrical sections	
		5 th	26-28	Simple Stress and Strain	Assumptions in theory of bending	

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DEPARTMENT OF ARCHITECTURAL ASSISTANTSHIP
Lesson Plan Session :- April-July.-2021

Name of Teacher :- Vipin Katoch				Name of Subject:- HISTORY OF ARCHITECTURE-II		Sem:- 4th
S.No.	Month	Week	Date	Name of Chapter	Contents to be taught	Remarks
1	April	1 st	.1-3	Islamic Architecture in India	Imperial Style, Slave Dynasty	
		2 nd	.5-10	Islamic Architecture in India	Khilji Dynasty, Tuglak Dynasty	
		3 rd	.12-17	Islamic Architecture in India	Building Type to be studied	
		4 th	19-24	Provincial Architecture	Areas of study - Gujrat, Bijapur, Malwa, Mandu.	
		5 th	26-30	Provincial Architecture	Areas of study - Gujrat, Bijapur, Malwa, Mandu.	
2	May	1 st	.1-8	Moghul Architecture	Rule of Humayun, Akbar, Jahangir, Shahjahan.	
		2 nd	.10-15	Moghul Architecture	Rule of Humayun, Akbar, Jahangir, Shahjahan.	
		3 rd	17-22	Moghul Architecture	Rule of Humayun, Akbar, Jahangir, Shahjahan.	Class Test
		4 th	24-31	Moghul Architecture	Important tombs, mosques, palaces, gardens.	
3	June	1 st	.1-5	Moghul Architecture	Important tombs, mosques, palaces, gardens.	
		2 nd	.7-12	Effects of Industrialization	Effects of Industrialization on social economical and Architectural Development	
		3 rd	14-19	Effects of Industrialization	Effects of Industrialization on social economical and Architectural Development	Class Test
		4 th	21-26	Various modern movements in architecture	Various modern movements in architecture caused by the works of Master Architects like LeCorbusier (Planning & Designing concepts of Chandigarh City), F.L.Wright, Mies Vande Rohe, Walter Gropius.	
		5 th	28-30	Various modern movements in architecture	Various modern movements in architecture caused by the works of Master Architects like LeCorbusier (Planning & Designing concepts of Chandigarh City), F.L.Wright, Mies Vande Rohe, Walter Gropius.	
4	July	1 st	.1-3	Various modern movements in architecture	Various modern movements in architecture caused by the works of Master Architects like LeCorbusier (Planning & Designing concepts of Chandigarh City), F.L.Wright, Mies Vande Rohe, Walter Gropius.	
		2 nd	.5-10			House Test
		3 rd	.12-17	Modern Architecture in India	Modern Architecture in India covering the works of following Architects: Charles Correa, B.V.Doshi, Raj-Rewal, Hafeez Contractor.	
		4 th	19-24	Modern Architecture in India	Modern Architecture in India covering the works of following Architects: Charles Correa, B.V.Doshi, Raj-Rewal, Hafeez Contractor.	
		5 th	26-28	Modern Architecture in India	Modern Architecture in India covering the works of following Architects: Charles Correa, B.V.Doshi, Raj-Rewal, Hafeez Contractor.	

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