

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN
I- SEMESTER
TECHNICAL DRAWINGS-I
(COURSE NO: BAR-101)

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	6	3	50	20	60	130

CONTENTS		
Unit-I	(a) Printing & lettering – Small & Capital letters, both vertical & italics. Roman Printing as per I.S. code and lettering. (b) Scale-Construction of plane, diagonal & Vernier Scales & their use	25%
Unit-II	Plane geometry – Problems of lines, triangles, polygons & circles, method of construction of ellipse, parabola & hyperbola.	25%
Unit-III	(a) Difference & use of I angle and III angle Projections I – angle orthographic projections of points, lines, planes, prisms (also cylinders) & pyramids (also cones). (b) Isometric projections of simple & compound solids. Isometric views of building block, a column with isolated footing.	25%
Unit-IV	Wall Section through arch, door & window.	25%

Reference Books:-

1. Plan Graphics drawing Delineation by walker Theodosia.
2. Thames & Hudson manual of rendering with Pen & ink by Robert W. Gill.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN
II- SEMESTER
FUNDAMENTALS OF ARCHITECTURE
(COURSE NO: BAR-201)

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
4	-	3	10	15	75	100

CONTENTS		
Unit-I	PRINCIPLES OF ARCHITECTURE: General background, Evolution of Architecture, Definition of Architecture and interior design, Factors effecting Architecture and interior design, Aesthetics in Interiors, Role of accessories, furniture and fittings.	25%
Unit-II	FUNCTIONAL PLANNING OF BUILDINGS: Anthropometrics diagram, Procedure of functional planning, objective of functional planning, methods of determination of various room sizes.	25%
Unit-III	ARCHITECTURAL COMPOSITION: General relationship of utility with beauty, aesthetics architecture and fine arts.	25%
Unit-IV	ELEMENTS OF ARCHITECTURAL COMPOSITION: 1. Point 2. Lines 3. Figures and planes 4. Forms 5. Scale 6. Proportion 7. Unity 8. Focus 9. Balance. 10. Monotony 11. Rhythm 12. Contrast 13. Harmony 14. Character 15. Style 16. Materials and Structure 17. Textures 18. Ornamentation 19. Role of Colours , Light and shade in Interiors and Architecture 20. Truth	25%

Reference Books:-

1. Architectural Composition and design of Houses by J.S. Yadav.
2. Architecture Form, Space and order by D.K. Ching.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN
II- SEMESTER
TECHNICAL DRAWINGS-II
(COURSE NO : BAR-202)

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	6	3	50	20	60	130

CONTENTS		
Unit-I	Perspective Views: (a) Basis of perspective, cone of vision, central visual ray, picture plane, line of Sight through picture plane, spectator. (b) Reality and appearance. (c) Principal aides of perspective, vanishing points, eye level. (d) Study of cube, sphere, cylinder, prism etc. and their one point & two point perspective.	25%
Unit-II	(a) Plan & Elevation of a Two room single storied building. Use and care of modern drawing appliances with emphases on stencils, Drawing table template Fero & Ammonia printing machine	25%
Unit-III	Sections of a Two room single storied building.	25%
Unit-IV	Different Presentation drawing Techniques, symbols used in architectural drawings.	25%

Reference Books:-

1. Plan Graphics drawing Delineation by walker Theodosia.
2. Thames & Hudson manual of rendering with Pen & ink by Robert W. Gill.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN
III- SEMESTER
BUILDING MATERIALS
(COURSE NO: BAR-301)

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	4	3	10	15	75	100

CONTENTS		
Unit-1	<p><u>BUILDING STONES, BRICKS AND TIMBER</u></p> <p>Classification of rocks, selection of stones for different building works. Classification of bricks, characteristics of good bricks, size and weight of standard brick. Composition of brick earth. Introduction, classification, property and uses. Defects in timber and prevention.</p>	25%
Unit-II	<p><u>LIME AND CEMENT AND CONCRETE</u></p> <p>Uses of lime, setting and hardening action of lime. Introduction, properties and uses of cement, chemical constituents of cement. Functions of ingredients of cement. Setting and hardening of cement types of cement, grading of cement. Introduction, characteristics of good concrete, classification of concrete, plain cement concrete, pre-cast concrete, General aspects and application of fly-ash</p>	25%
Unit-III	<p><u>Glass, Insulating Materials</u></p> <p>Introduction, properties of glass, sheet glass, float glass, plate glass, bullet proof glass, Fibre glass. Heat and sound insulating materials, uses of cork, slag wool, light weight concrete, Aluminium foil.</p> <p><u>Plastics</u></p> <p>Definition of plastics, classification of plastics, properties of plastics, uses of plastics, Trade names and Typical Applications of some important plastics, commercial forms of plastics.</p>	25%
Unit-IV	<p><u>Paints, Varnishes, Distempers and Gypsum Plaster</u></p> <p>Definition of paints, Function of paints, Constituents of an oil paint and their functions, characteristics of good paint. Types of paints, failure of paint, Defects in painting. Definition of varnish, Functions of varnish, ingredients of varnish, characteristics of good varnish, Types of Varnish, Distempers process, properties of distempers, white washing, colour washing and gypsum plaster.</p>	25%

Reference Books:-

- Modern Geotechnical Engg. By Alam Singh
- Engineering Materials by R.K. Rajput
- Engineering Materials by Surendra Singh

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN**III- SEMESTER****BUILDING SERVICES
(COURSE NO: BAR-302)**Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
4	-	3	10	15	75	100

CONTENTS		
Unit-I	<p><u>WATER SUPPLY AND DRAINAGE</u></p> <p>Water supply Hot and cold water supply system, types and sizes; water supply fitting to bathrooms, Water closet, sinks, bathtubs, washbasins, bidets, showers, urinals etc.</p> <p>Drainage Principles of drainage, material for drains, traps – their types, function and uses. Shapes and sizes of pipes for drainage system, sanitary fixture- W.C., Wash basins, bathtubs, sinks – their types, sizes, Septic tank – types, sizes etc. Simple exercises on preparation of layout plans for toilet, kitchen (both public and residential)</p>	25%
Unit-II	<p><u>LIGHTING AND OTHER ELECTRICAL PLANS</u></p> <p>Different system of lighting-both natural and artificial, preparing and planning of electrical layout for different areas alongwith various communication equipment by symbolic representation and selection of matching fittings for different work areas, matching light with site such as drawing room, bedroom, study: bath, kitchen etc., and public places like offices including basic knowledge of materials, finishes and maintenance, units for measuring lights.</p>	25%
Unit-III	<p><u>AIR CONDITIONING AND VENTILATION</u></p> <ul style="list-style-type: none"> - Basic definition such as latent heat, ton of refrigeration etc - Different systems of A. C. central air conditioning and direct expansion systems - Chilled water system - Package units, windows units, console evaporative type coolers - Natural and artificial, space opening in interior and AC supply and ducting plans 	25%
Unit-IV	<p><u>Fire Protection:</u> General. Fire resisting properties of materials. Fire resistant construction. Fire protection requirements for multistoreyed building. Safety against fire in theaters and cinema halls. Fire detecting and extinguishing system.</p>	25%

Reference Books:-

Modern Geotechnical Engg. By Alam Singh
 Engineering Materials by R.K. Rajput
 Engineering Materials by Surendra Singh

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN

III- SEMESTER

DESIGN WITH CLIMATE

(COURSE NO: BAR-303)

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
4	-	3	10	15	75	100

CONTENTS		
Unit-I	Climate, Geographical and Physical factors, temperatures, rainfall, wind, sky, ground, vegetation, seasons, study of body heat temperature.	25%
Unit-II	Different types of climates in India, Micro Climate.	25%
Unit-III	Movement of the sun, Sun charts and use of climate data, shading devices, Horizontal and vertical louvers.	25%
Unit-IV	Application of climatic principles for design of buildings in different climates in Ind, Effective temperature and its use, ventilation and air movement in the buildings	25%

Reference Books:-

Tropical Housing - Koenisberger
Building Construction by W.B. Mackay Vol. I, II, III and IV

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN

III- SEMESTER

**ARCHITECTURE GRAPHICS-I
(COURSE NO: BAR-304)**

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
2	3	3	50	15	60	125

CONTENTS		
Unit-1	Drawing Techniques: Drawing a line. Different types, characteristics of lines. Application of all types of lines in architectural drawings. Presentation using other presentation techniques (water colours, crayons, Pastels etc.)	25%
Unit-II	Free Hand Sketching: Importance of free hand sketching in architectural drawings, Introduction of various mediums used for presentations.	25%
Unit-III	Perspective Drawing : Principles of perspective drawing and understanding of all relevant terms, Drawing perspective views by one point and two point perspective methods, Perspective by measuring point method, Perspective views of interior designs by projection / measuring point method.	50%

Reference Books:-

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN

III- SEMESTER

AUTO CAD-I

(COURSE NO: BAR-391

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	3	3	45	-	30	75

CONTENTS

Use of various commands of Auto-Cad. When to use key board and Mouse.
Activation of command through pull down Menu, Through icons or by using key board.

Preparation of basic presentation drawings like Site plan, Floor plans, Sections, Elevations.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP
III- SEMESTER
MODEL WORKSHOP
(COURSE NO: BAR-392

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	3	3	45	-	30	75

CONTENTS
<p>Introduction to various materials used for model making: Experiments with various materials and equipment in terms of preparation of basic forms / geometrical forms with appropriate scale and dimensions.</p> <p>Use of instruments and adhesives required for model making: Use of various instruments required for model making. Use of various adhesives and joining techniques.</p> <p>Use of colors in model making: Appropriate use of colors in model making, its importance and methods of coloring the models.</p> <p>Types of models: Introduction to various types of models such as site model, study model, block model and finished presentation models. Importance of various types of models to appropriate stages of Architectural Design.</p> <p>Scales in model making: Use of appropriate scales, suitable to various types of models.</p> <p>Model of a built structure: Study and preparation of model of a complete built structure.</p>

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP
III- SEMESTER
ARCHITECTURE DESIGN-I
(COURSE NO: BAR-393)

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	4	3	75	-	50	125

CONTENTS

Exercises to understand the Parameters of design: Anthropometrics, human activity and the use of spaces.

Problems related to the understanding of the elements of architectural design, concepts of space and form and their perception.

Study of a given space through elementary measured drawings, sketching and Photography.

Synthesis of observations in design of a basic shelter, milk booth, Exhibition stall, drinking water fountain, information kiosk, etc.

Note:- Site visits, case studies may involve local/out station study/Educational tours. And shall have weightage in course work marks to be decided by subject teacher.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP

IV- SEMESTER

**HISTORY OF ARCHITECTURE
(COURSE NO: BAR-401)**

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
4	-	3	10	15	75	100

CONTENTS		
Unit-I	Egyptian Architecture Mesopotamian Architecture Central Asian Architecture	25%
Unit-II	Greek Architecture Roman Architecture Persian Architecture	25%
Unit-III	Indus Valley Civilization Vedic Architecture Buddhist & Jain Architecture Hindu- North Indian styles.	25%
Unit-IV	Indo-Islamic Architecture (Mughal Architecture)	25%

Reference Books:-

- Ancient Indian Architecture (From Blossom to Boom) by Sanjeev Maheshwari.
- Rajeev Garg.
- A History of Architecture by Sir Banister Fletchers.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN
IV- SEMESTER
BUILDING CONSTRUCTION-I
(COURSE NO: BAR-402)

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
4	-	3	10	15	75	100

CONTENTS		
Unit-I	<p><u>Foundations:-</u> Shallow foundations- Introduction, types of shallow foundations, Deep foundations- Introduction, types of Pile foundations</p>	25%
Unit-II	<p>MASONARY: Technical terms, Head, Stretcher, bond, Core, Header Course, Stretcher Course, Bed facing, Hearting, Joint, Bat, Closing, King Closure, Queen Closer, Beveled Closure, Frog, Quoin, Plinth Course, Sill, Jamb, Reveal, String Course, Cornices, Corbel. Stone Masonary: Joints in Stone Masonry, Rubble Masonry, Ashlar Masonry.</p>	25%
Unit-III	<p><u>Arches and Lintels:</u> Introduction. Technical terms used in Architectural work. Description of various types of arches and lintels. Method of arch and lintel construction.</p>	25%
Unit-IV	<p>Definition, functions, sizes, location and classification of doors and windows. Drawing of different types of doors and windows showing joints and fixtures.</p>	25%

Reference Books:-

1. Sushil Kumar, Building construction.
2. Gurcharan Singh, Building Construction Engineering.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN
IV- SEMESTER
ARCHITECTURE GRAPHICS-II
(COURSE NO: BAR-403)

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
2	3	3	50	15	60	125

CONTENTS		
Unit-I	Sciography : Principles of shades and shadows, Drawing shades and shadows of lines, planes, solids and architectural building elements	25%
Unit-II	Study of drawing shadows in isometrics, Shades and shadows of typical building on plan and elevation, Shades and shadows in perspective.	25%
Unit-III	Presentation Drawings : Complete presentation of selected or given architectural design with perspective views by any method including approximate method	25%
Unit-IV	Presentation drawings of floor plans, elevations, landscapes in site plan etc.	25%

Reference Books:-

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN

IV- SEMESTER

AUTO CADD-II

(COURSE NO: BAR-491)

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	3	3	45		30	75

	CONTENTS
	<p>Extention of presentation drawings like</p> <ul style="list-style-type: none">• Site plan• Floor plans• Sections• Elevations. <p>Prepration of basic 3-D drawings</p> <p>Different rendering techniques</p>

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP

IV- SEMESTER

**ARCHITECTURE DESIGN-II
(COURSE NO: BAR-492)**

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	4	3	75	-	50	125

CONTENTS

Inception of Circulation Diagrams, Analysis of area requirements and functional layouts of small units.

Design problem 1-Design problems on building types such as residence, apartments etc.

Design problem 2 -Schools / Colleges.

Design problem 3- Public building/complexes

Note:- Site visits, case studies may involve local/out station study/Educational tours. And shall have weightage in course work marks to be decided by subject teacher.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN**V- SEMESTER****ESTIMATING AND COSTING-I**

Annexure: I
BOS : 12.02.2013

(COURSE NO : BAR-501)

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
3	2	3	50	15	60	125

CONTENTS		
Unit-I	General: Definition and objects estimating. Various methods of estimating, units of Measurement and payment.	25%
Unit-II	Calculation of quantities of main items of construction. Materials statements. Calculation of quantities of materials for the items of construction and preparation of material statements.	25%
Unit-III	Analysis of rates: Calculation of rates of the main items of construction including the calculation of carriage of materials. Schedule of rates.	25%
Unit-IV	Specifications: Detailed specification for the main items of construction.	25%

Reference Books:-

1. Estimating and costing in Civil Engg. By B.N. Dutta
2. Estimating, costing, specification and valuation by M. Chakraborti.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN

V- SEMESTER

BUILDING CONSTRUCTION-II

(COURSE NO : BAR-502)

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
3	2	3	50	15	60	125

CONTENTS		
Unit-1	<u>FLOORS AND ROOFS:</u> Ground Floors: Requirements of a good flooring material, types of ground floors, clay, murrum, brick, stone, cement concrete, mosaic, tile terrazzo and timber floors. Upper Floors: R.C.C., R.B., Filler joist, flag stone and timber floors. Roofs an Trusses : Purpose of roof, Brief description of different types of roofs and trusses.	25%
Unit-II	: Partitions and wall paneling. Methods and construction technology of wall paneling, cladding, full and low height partitions, false ceilings, railings, brick jails, honey combing etc.	25%
Unit-III	Definition and types of staircases as per nomenclature. Staircase of different materials. Drawing of open well. Dog legged, Spiral and Circular staircases. Behavior of buildings during Earth quake	25%
Unit-IV	<u>Scaffolding and Form Works:</u> General. Types of scaffolds Form Work. Requirements of good formwork. Types of form work. Form works for concrete floors and beams. Form works for wall and columns. Period for removal of formwork.	25%

Reference Books:-

1. Sushil Kumar, Building construction.
2. Gurcharan Singh, Building Construction Engineering.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP

V- SEMESTER

INTERIOR DESIGN

(COURSE NO: BAR-503)

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
4	-	3	10	15	75	100

CONTENTS		
Unit-1	Principles of interior design, objectives of planning for interior design, Factors effecting the interior design. Functionalism and comfort. Interior of Kitchen and Toilet.	25%
Unit-II	Comfortable design, Natural daylight, ventilation, Artificial light, lighting design, Interior of Bed Room, living room and Dining room.	25%
Unit-III	: Materials for paneling and cladding, surface finishing by wall papers and paints. False ceiling and floor covering, curtains and upholstery.	25%
Unit-IV	: COLOUR: Theory of colours, psychological effects of colours, colour scheme, classification of colours and their characteristics.	25%

Reference Books:-

Interior Design by Ahmad Kasu
Interior Design by Joseph Di Chiara
Space Planning Julius Bamero

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN**V- SEMESTER****WORKING DRAWING
(COURSE NO : BAR-504)**Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
2	3	3	50	15	60	125

CONTENTS		
Unit-I	1. Site Plan –1 sheet 2. Foundation plan with sectional detail – 1 sheet 3. Ground floor plan – 1 sheet. 4. Typical Floor plan – 1 sheet 5. Terrace Floor plan – 1 sheet	25%
Unit-II	Sections one at least through staircase and toilet – 1 sheet 7. Elevations – front & rear – 1 sheet	25%
Unit-III	Details of Toilet & kitchen – 1 sheet 9. Cupboard drawings details – 1 sheet	25%
Unit-IV	10. Boundary wall & Gate Design – 1 sheet 11. Electrical plan – 1 sheet Reinforcement details Submission of project based upon above exercises. Note: Weightage of each unit to be decided by the examiner.	25%

Reference Books:-**Books:**

1. Time Saver standards for interior design and space planning by Joseph Dochiara
2. Building Drawing by M.G. Shah, C.M. Kale, S.Y. Patki.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP

V- SEMESTER

ARCHITECTURE PROJECT-I

(COURSE NO: BAR-591)

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	3	3	120		80	200

CONTENTS

Stage- I ---Site Analysis.

Location of the area of the site, topographical features, vegetation, Infrastructure of the site and its constraints. A report is to be submitted comprising all the information with the photographs.

Stage –II---Case study and concept design.

At least two case study of similar project in terms of scale & magnitude, literature studies, comparison of spaces, inferences, Single line sketch of the plan, elevation and section.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP

V- SEMESTER

ARCHITECTURE DESIGN-III

(COURSE NO: BAR-592)

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	6	3	75		50	125

CONTENTS

Design problem 1- Public building/complexes such as community centers, museums etc

Design problem 2- Recreational buildings with focus on site development like resorts, farmhouses etc.

Seminar: Emphasis should be laid on the case study, important building related to design project given. The critical evaluation of the building is to be presented with adequate illustration by the way of projections

Note:- Site visits, case studies may involve local/out station study/Educational tours. And shall have weightage in course work marks to be decided by subject teacher.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN**VI- SEMESTER****ESTIMATING AND COSTING-II****(COURSE NO: BAR-601)**

Annexure: I

BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
3	2	3	50	15	60	125

CONTENTS		
Unit-I	Preparation of Bill of quantities of different items of construction for the following: (a) A doubled storeyed building (b) Interiors of residence-wood work, paneling, floor finishes and false ceiling and paint work.	25%
Unit-II	Preparation of detailed estimates for the following R.C.C. framed structure. (a) R.C.C. column with foundation R.C.C. Beam (b) R.C.C. T-Beam with slab	25%
Unit-III	(a) Jack Arches Roof (b) A wooden and steel roof truss. (c) Staircase	25%
Unit-IV	Detailed Estimating of kitchen and toilet.	25%

Reference Books:-

Estimating and Costing by B. N. Dutta

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN**VI- SEMESTER****BUILDING CONTRACT
(COURSE NO: BAR-602)**

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
4	-	3	10	15	75	100

CONTENTS		
Unit-1	Tendering, Invitation to tender – by private invitation, by negotiations, essential characteristics of a tender notice, opening of tenders, acceptance of a tender, tender document. Types of tenders, Earnest Money, Security deposit, retention amount and its essential characteristics and purpose of retention amount.	25%
Unit-II	Contract and its legal definition. Contract by a private party and public body. When contract becomes void. Discharge of contract. Types of contract.	25%
Unit-III	Execution of the contract. Conditions with respect to the power and duties of Architect. Contractors duties and liabilities under the contract – (i) Administrative and Organization, (ii) Executive of Work.	25%
Unit-IV	Problems arising out of contract conditions, prime cost, provisional sums. Essential characteristics of prime cost, duties of sub-contractor and payment to nominated sub-contractor.	25%

Reference Books:

1. Professional practice by Roshan H. Namavat.
2. Civil Engg. Contracts and estimates by B.S. Patel.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP

VI - SEMESTER

TOWN PLANNING

(COURSE NO: BAR-603)

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
4	0	3	10	15	75	100

CONTENTS		
Unit-I	Definitions, aims and principles of town planning, Growth of towns, stages in town development, distribution of land uses, forms of planning	25%
Unit-II	<u>Modern Planning Concepts</u> Concept of Master Plan, Necessity of Master Plan, preparation of Master Plan, Neighborhood Planning, Idea of city planning such as Chandigarh. Islamabad, Gandhinagar.	25%
Unit-III	<u>Urban Roads</u> General requirements of a good city road. Classification of urban roads, types of street systems. Through and bypass roads, outer and inner ring roads, express ways, Freeways, Road junctions, parking, Traffic capacity of roads.	25%
Unit-IV	<u>Zoning and Slums</u> Meaning of the term, Principles of zoning, Advantages of Zoning, Importance & Aspects of Zoning, Transition Zone, Economy of Zoning.	25%

Reference Books:-

1. Town Planning by S.C. Rangwala
2. The Landscape of Man Geofery & Susan

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN
VI- SEMESTER
MODERN TRENDS IN ARCHITECTURE
COURSE NO : BAR-604

Annexure: I BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
3	2	3	50	15	60	125

CONTENTS		
Unit-I	The impact of industrial Revolution and other movements in architecture	25%
Unit-II	Evolution of Modern Architecture, various building materials used in modern Architecture, New construction techniques of modern architecture.	25%
Unit-III	Unit 3-Philosophy and contribution of eminent modern and post modern architects.	25%
Unit-IV	Post independence architectural developments in India, works of eminent Indian Architects.	25%

Reference Books:-

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN**VI- SEMESTER****LANDSCAPE DESIGN****COURSE NO: BAR-605**Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
2	3	3	50	15	60	125

CONTENTS		
Unit-I	1. Introduction to commonly available trees, plants, shrubs, creepers etc. Their common name, botanical name, their characteristics behavior all round the year. A report encompassing the above aspects, including site visits, all the students should prepare identification of plants.	25%
Unit-II	1. Drawing of symbols of Landscape elements. 2. Landscaping of residence.	25%
Unit-III	1. Landscape of an industrial building premises. 2. Landscape of a road junction (Round about).	25%
Unit-IV	1. Landscaping of a proposed children park. 2. Seminar on any one of the above landscape problems.	25%

Reference Books:-

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP

VI- SEMESTER

ARCHITECTURE PROJECT-II

(COURSE NO: BAR-691)

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	3	3	120		80	200

CONTENTS

IN CONTINUATION OF ARCHITECTURE PROJECT-I

Stage-III----Pre final Submission

Complete drawing of the plans of all the levels, two elevations, two sections, site plan, concept for specialized services and design elements.

Stage –IV----Final Submission.

Final submission of all the rendered drawings, working drawings, Detailed perspective and model.

DIPLOMA IN ARCHITECTURE ASSISTANTSHIP / INTERIOR DESIGN

VI- SEMESTER

ARCHITECTURE DESIGN-IV

(COURSE NO : BAR-692)

Annexure: I
BOS : 12.02.2013

Pds/week		Duration of Exam	Max Marks			
L	P	Hrs	Course Work	Mid-Sem Exam	End-Sem Exam	Total
-	6	3	75		50	125

CONTENTS

Design problem 1- Design projects commercial constraints/ restriction like ground coverage, F.A.R site constraints and materials restriction, to be worked out as a practical problems like apartments and special buildings.

Designing and detailing of various building elements, like sunshade. Parapet, planters, projections etc. pergola, porch etc.

Design problem 2- Design and of various technical projects like small industry, Auditorium, Cinema Hall etc.

Criticism of every design must be done at every stage and after every submission.

Seminar: Emphasis should be laid on the case study, important building related to design project given. The critical evaluation of the building is to be presented with adequate illustration by the way of projections

Note:- Site visits, case studies may involve local/out station study/Educational tours. And shall have weightage in course work marks to be decided by subject teacher.