

**PROPOSED CURRICULUM AND SYLLABUS
FOR DIPLOMA COURSE IN
ARCHITECTURE**

**SYLLABUS
(SIXTH SEMESTER)**

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION

PREPARED BY:

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ARCHITECTURAL PROFESSIONAL PRACTICE

Subject Code ARCH / 6 / T1 / APP	Course offered in Sixth Semester	Duration 17 weeks	2 lecture contact periods per week	Full Marks 50
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OBJECTIVE

On satisfactory completion of the course, the students will be in a position to understand and explain the:—

- (i) role of architects, contractors and other consultants in the profession;
- (ii) provisions of the Architects Act 1972, the constitution of the Council of Architecture, the qualifications recognised by the Council of Architecture for enrolment in its registrar and the Architects (Professional Conduct) Regulation, 1989;
- (iii) meaning of the terms 'codes' & 'by-laws' followed by the National Building Code of India and the West Bengal Municipal Act & the Kolkata Municipal Corporation Act;
- (iv) latest amended provisions of the Kolkata Municipal Corporation Building Rules, 1990 relevant to the design & drawing of an architectural project;
- (v) concepts of Tender, Contract and Arbitration regarding their type and essential characteristics.

MODULAR DIVISION OF THE SYLLABUS

GROUP	MODULE	TOPIC	CONTACT PERIODS
A	1	ARCHITECTURE AS A PROFESSION	2
	2	THE ARCHITECTS ACT, 1972	6
B	3	CODES & BYE- LAWS	2
	4	THE KOLKATA MUNICIPAL CORPORATION BUILDING RULES, 1990	10
C	5	TENDER & CONTRACT	7
	6	ARBITRATION	3

CONTACT PERIODS: 30

INTERNAL ASSESSMENT: 4

TOTAL PERIODS: 34

EXAMINATION SCHEME

GROUP	MODULE	OBJECTIVE QUESTIONS				SUBJECTIVE QUESTIONS			
		TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS	TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS
A	1, 2	8	ANY TWENTY	ONE	1 X 20 = 20	TWO	FIVE, TAKING AT LEAST ONE FROM EACH GROUP	TEN	5 X 10 = 50
B	3, 4	9				FOUR			
C	5, 6	8				TWO			

DETAIL COURSE CONTENT

GROUP - A	COUNCIL OF ARCHITECTURE	8 PERIODS
1.0	ARCHITECTURE AS A PROFESSION	2
	Introduction — Role of Architects	
2.0	THE ARCHITECTS ACT, 1972	6
2.1	Preliminary – Short title, Extent and Commencement- Definitions	
2.2	Constitution of Council of Architecture – Body Formation	
2.3	Recognitions of Qualifications granted by authorities in India (The Schedule)	
2.4	Architects (Professional Conduct) Regulation, 1989	
GROUP - B	CODES & BYE-LAWS	12 PERIODS
3.0	CODES & BYE- LAWS	2
3.1	Introduction of Codes and Bylaws	
3.2	Introduction to Codes followed by National Building Code of India	
3.3	Introduction to by-laws followed by Kolkata Municipal Corporation Act	
4.0	THE KOLKATA MUNICIPAL CORPORATION BUILDING RULES, 1990	10
4.1	Definitions	
4.2	Key (Location) Plan – Site Plan – Building Plans – Sizes of drawing sheets – Colouring notations for plans – Dimensions	
4.3	Engagement of Technical Personnel – Association of Engineers with Architect – Licensed Building Surveyor – Duties and Responsibilities of Architect and Licensed Building Surveyor	
4.4	Open Spaces	
4.5	Area and Height Limitations	

- 4.6 Parking, Loading and Unloading Space [excluding Mercantile (retail), Industrial or Storage or Hazardous or Mercantile (wholesale)]
- 4.7 Provisions for more than one building in plot
- 4.8 Requirements of Part of Buildings
- 4.9 Fire Protection and Exit Requirements
- 4.10 Building and Plumbing Services

GROUP - C TENDERS, CONTRACTS & ARBITRATION 10 PERIODS

- 5.0 CONTRACT & TENDER 7**
- 5.1 Contract: Definition & Types (definitions only) : Role of Contractors in construction arena
- 5.2 Tender: Definition & Types (definitions only)
- 5.3 Tender Documents & Tender Notice
- 5.4 Earnest Money & Security Deposit (definitions only)
- 6.0 ARBITRATION 3**
- 7.1 Arbitration & Arbitrator (definitions only)
- 7.2 Different kinds of Arbitration according to Arbitration Act, 1940
- 7.3 Procedure of Settlement of dispute by Arbitration

REFERENCE BOOKS

1. HANDBOOK OF PROFESSIONAL DOCUMENTS — 2013 / COUNCIL OF ARCHITECTURE
2. SP 7(1) : NATIONAL BUILDING CODE OF INDIA 2005 GROUP 1 – PART III DEVELOPMENT CONTROL RULES AND GENERAL BUILDING REQUIREMENTS / Bureau of Indian Standards
3. The Kolkata Municipal Corporation Building Rules, 2009
4. ESTIMATING, COSTING, SPECIFICATION AND VALUATION IN CIVIL ENGINEERING / M.CHAKRABORTI / M.CHAKRABORTI, 21B, Bhabananda Road, Kolkata – 700 026
5. ESTIMATING & COSTING IN CIVIL ENGINEERING THEORY & PRACTICE INCLUDING SPECIFICATION & VALUATION / B.N. DUTTA / UBSPD
6. Professional Practice / K.G. KRISHNAMURTHY & S.V. RAVINDRA / PHI Learning Pvt. Ltd., New Delhi.

CONTEMPORARY ARCHITECTURE – II

Subject Code ARCH / 6 / T2 / COA2	Course offered in Sixth Semester	Duration 17 weeks	3 lecture contact periods per week	Full Marks 100
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OBJECTIVE

On satisfactory completion of the course, the students should be in a position to understand and explain the development of different philosophy and styles of world architecture in second half of the twentieth century with reference to contemporary architecture in independent India.

MODULAR DIVISION OF THE SYLLABUS

GROUP	MODULE	TOPIC	CONTACT PERIODS
A	1	FEATURISM	2
	2	SCULPTURAL ARCHITECTURE	2
	3	BRUTALISM	2
	4	TENSILE STRUCTURES	4
	5	DOME	2
	6	POST MODERNISM	4
	7	DECONSTRUCTIONISM	4
	8	NEOMODERNISM	2
B	9	MODERN ARCHITECTURE & INDIA	10
	10	MAINSTREAM INDIAN ARCHITECTURE	8
	11	ALTERNATIVES FOR A DEVELOPING INDIA	5

CONTACT PERIODS: 45 INTERNAL ASSESSMENT:6 TOTAL PERIODS: 51

EXAMINATION SCHEME

GROUP	MODULE	OBJECTIVE QUESTIONS				SUBJECTIVE QUESTIONS			
		TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS	TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS
A	1, 2, 3, 4, 5, 6, 7	13	ANY TWENTY	ONE	1 X 20 = 20	THREE	FIVE, TAKING AT LEAST TWO FROM EACH GROUP	TEN	10 X 5 = 50
B	8, 9, 10	12				FOUR			

DETAIL COURSE CONTENT

GROUP - A COUNTER MOVEMENTS TO MODERNISM 22 PERIODS

Module 1 FEATURISM 2

Great increase of synthetic & composite materials from the chemical laboratories leading to a variety of choice of surface materials – Sophisticated richness in surface treatment – Study of the UNITED STATES EMBASSY, NEW DELHI (1955) by EDWARD DURRELL STONE.

Module 2 SCULPTURAL ARCHITECTURE 2

Exploit of constructional resources beyond traditional geometry – Monolithic structures without or with very few right angles – Study of the SOLOMON R. GUGGENHEIM MUSEUM, NEW YORK (1959) by F. L. WRIGHT.

Module 3 BRUTALISM 2

Concrete exposed at its roughest and handled with over emphasis on big chunky members which collide ruthlessly – Study of the NOTRE DAME DU HAUT, RONCHAMP, FRANCE (1954) by CORBUSIER.

Module 4 TENSILE STRUCTURES 4

Free fluid monolithic structures – Strength of materials used in tension rather than in compression – Catenary action – Cables with counter-downward-pull to counter the upward pull of suspension cables in addition to the simple action of gravity – Two variations – (i) TWO-DIMENSIONAL TENSILE STRUCTURES: Study of the DULLES INTERNATIONAL AIRPORT, WASHINGTON DC (1962), (ii) THREE-DIMENSIONAL TENSILE STRUCTURES: Study of the TWA TERMINAL, JOHN F. KENNEDY AIRPORT, NEW YORK (1962) both by EERO SAARINEN.

Module 5 DOMES 2

Covering large spans uninterrupted by any support structure – Geodesic Domes constructed on the principle of SPACE-FRAME – Tensigrity structures – Study of the following work: US PAVILION, EXPO 67, MONTREAL (1967) by RICHARD BUCKMINSTER FULLER.

Module 6 POST MODERNISM 4

Pioneer ROBERT VENTURI – THEME: LESS IS BORE – Attacks modernist orthodoxy and elitism of modernist tradition – Urges architecture to come in terms with popular culture – Term formally defined by CHARLES JENKS referring to a style arising in the early 1970s – Hybrid, doubly-coded, half-Modern and half-conventional – Study of the PORTLAND MUNICIPAL OFFICES, OREGON (1982) by MICHAEL GRAVES – Prominent works of the following eight post-modernist architects (name only): Robert Venturi, Charles Jenks, Mario Botta, Renzo Piano, Richard Rogers.

Module 7 DECONSTRUCTIONISM 4

Influenced by the writings of philosopher JACQUES DERRIDAS – THEME: FORM FOLLOWS FANTASY coined by BERNHARD TSCHUMI – Apparent fragmentation of building forms – Rejection of the right-angle and curve in favour of the sharp acute angle – General reversal or at least questioning of all principles of design and construction conventionally believed to be axiomatic – Prominent works of the following five deconstructionist architects: Peter Eisenman, Zaha Hadid, Frank O. Gehry – Study of the following work: VITRA FIRE STATION, GERMANY () by ZAHA HADID.

Module 8 NEOMODERNISM 2

A dominant form of architecture in 20th and 21st century - a reaction to the complexity of postmodern architecture and eclecticism, seeking greater simplicity - Study of the following work : BARCELONA MUSEUM OF CONTEMPORARY ART, ATLANTA, GEORGIA (1987-89) by RICHARD MIER.

GROUP - B CONTEMPORARY INDIAN ARCHITECTURE 23 PERIODS

Module 8 MODERN ARCHITECTURE & INDIA 10

Independent India's Prime Minister Nehru's allegiance to the Western industrial model – Invitation to European & American masters – Study of the (i) CAPITAL COMPLEX BUILDINGS, CHANDIGARH by LE CORBUSIER:

THE ASSEMBLY (1960), THE HIGH COURT (1956) & THE SECRETARIAT (1956); and, (ii) INDIAN INSTITUTE OF MANAGEMENT, AHMEDABAD (1974) by LOUIS I KAHN.

Module 9 MAINSTREAM INDIAN ARCHITECTURE 8

Coming out of the influence of colonial and foreign masters – Assimilation of modernism and late 20th century global architectural trends with the living craft traditions and ritualistic link with heritage – Study of the (i) ASIAD VILLAGE, NEW DELHI (1982) by RAJ REWAL, and, (ii) KANCHENJUNGA APARTMENTS, BOMBAY (1983) by CHARLES CORREA – Prominent architectural works of the following fifteen Indian architects: Habib Rahman, Achyut P. Kanvinde, Laurie Baker, C. P. Kukreja, Charles Correa, Joseph Allen Stein, B. V. Doshi, Hasmukh C. Patel, Raj Rewal, Romi Khosla, Anant D. Raje, Uttam C. Jain, Dulal Mukherjee, Prabir Mitra, and, Hafiz Contractor.

Module 10 ALTERNATIVES FOR A DEVELOPING INDIA 5

Design and planning as active agents of change in developing nation:

- 10.1 APPROPRIATE TECHNOLOGY: Alternate building materials & structures – Passive control of built environment – Vernacular building technology & aesthetics – Study of the Centre for Developing Studies, Trivandrum (1975) by Laurie Baker.
- 10.2 HUMAN SETTLEMENT PROGRAMMES: 'Site-and-Services' scheme – Study of the Aranya Township, Indore (1988) by Balkrishna Doshi – Vastu-Shilpa Foundation, Ahmedabad.

REFERENCE BOOKS

1. A History of Architecture (Century Edition) / Sir Banister Fletcher / Butterworth Heinemann (Hb), CBS Publishers & Distributors (Pb)
2. The Story of Architecture FROM ANTIQUITY TO THE PRESENT / Jan Gypel / Könemann
3. Puzzle of Architecture / Robin Boyd / Melbourne Architectural Press
4. AFTER THE MASTERS Contemporary Indian Architecture / Vikram Bhatt & Peter Scriver / Mapin Publishing Pvt. Ltd., Ahmedabad
5. THE LANGUAGE OF POST-MODERN ARCHITECTURE / Charles Jenks / Academy Editions, London
6. ARCHITECTURE HIGHLIGHTS! / Adams Hubertus and Paul Jochen / DUMONT monte
7. Architecture of Today / Andreas Papadakis & James Steele / TERRAIL
8. AT THE END OF THE CENTURY: ONE HUNDRED YEARS OF ARCHITECTURE / Edited by Russel Ferguson / The Museum of Contemporary Art, Los Angeles, Harry N. Abrams Inc., Publishers
9. CRASH COURSE IN ARCHITECTURE / Eva Howarth / Caxton Editions
10. Contemporary Indian Architecture – Housing & Urban Development / M.N.Joglekar & S.K.Das / Galgotia Publishing Co. New Delhi

ESTIMATING-COSTING, SPECIFICATION & VALUATION - II

Subject Code ARCH / 6 / T3 / ECSV2	Course offered in Sixth Semester	Course Duration 17 weeks	3 contact periods per week	Full Marks 100
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OBJECTIVE

On satisfactory completion of the course, a student will:—

- (i) understand the purposes and factors affecting rate analysis;
- (ii) be able to calculate the rate analysis for some common items of work;
- (iii) have knowledge regarding the general specifications of first & second classes of buildings and detailed specifications of some common items of work;
- (iv) understand the concepts of valuation, depreciation and other associated issues; and,
- (v) be able to calculate depreciation and valuation by different methods.

MODULAR DIVISION OF THE SYLLABUS

MODULE	TOPIC	CONTACT PERIODS
1	ANALYSIS OF RATE	17
2	SPECIFICATION	17
3	VALUATION	11

CONTACT PERIODS: 45 INTERNAL ASSESSMENT: 6 TOTAL PERIODS: 51

EXAMINATION SCHEME

MODULE	OBJECTIVE QUESTIONS				SUBJECTIVE QUESTIONS			
	TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS	TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS
1	12	ANY 20	1	1 x 20 = 20	THREE	FIVE, TAKING AT LEAST ONE FROM EACH GROUP	10	5 x 10 = 50
2	11				THREE			
3	12				THREE			

DETAIL COURSE CONTENT

Module 1 ANALYSIS OF RATE

17 LECTURE PERIODS

- 1.1 DEFINITION — PURPOSE OF RATE ANALYSIS — FACTORS AFFECTING THE RATE PER UNIT OF AN ITEM: Materials – Labour – Equipments or Tools & Plants – Overhead or Establishment charges (including incidental) – Profit
- 1.2 ANALYSIS OF RATE FOR: Earthwork – Brick Soling – Concrete Work – Shuttering & Staging – Damp Proof Course – Brickwork – Lime Terracing on RCC roof – Plastering – Pointing – White Wash – Colour Wash

Module 2 SPECIFICATION

17 LECTURE PERIODS

- 2.1 DEFINITION — PURPOSE OF SPECIFICATION — PRINCIPLES OF WRITING SPECIFICATION — TYPES OF SPECIFICATION: General specifications & Detailed specifications
- 2.2 GENERAL SPECIFICATIONS of a First Class and Second Class Building
- 2.3 DETAILED SPECIFICATIONS: Earthwork in Excavation – Earthwork in Filling – Brick Soling – Plain Cement Concrete – Reinforced Cement Concrete – Damp Proof Course – First Class Brickwork – Patent Stone Flooring – Terrazzo or Mosaic Flooring laid in situ – Cement Plaster Skirting – Glazed Tiles in Skirting and Dado – Woodwork for door and window frames – Woodwork for door and window shutters – Cement Plastering – Cement Pointing – Lime terracing – White washing – Colour washing – Distemping

Module 3 VALUATION

11 TUTORIAL PERIODS

- 3.1 DEFINITIONS: Value, Cost, Price and Valuation — PURPOSE of Valuation — QUALIFICATIONS & FUNCTIONS OF A VALUER
- 3.2 Difference between Value & Cost — SCRAP (or Junk or Demolition) VALUE & SALVAGE VALUE — ASSESSED VALUE — SPECULATIVE VALUE — SINKING FUND
- 3.3 DEPRECIATION & OBSOLESCENCE — METHODS OF CALCULATING DEPRECIATION: Straight Line Method – Constant Percentage Method or Declining Balance Method – Sinking Fund Method
- 3.4 METHODS OF VALUATION: Rental Method of Valuation – Land & Building Method of Valuation (or Initial Cost based Valuation) – Direct Comparison Method of Valuation

REFERENCE BOOK

1. ESTIMATING, COSTING, SPECIFICATION AND VALUATION IN CIVIL ENGINEERING / M.CHAKRABORTI / M.CHAKRABORTI, 21B, Bhabananda Road, Kolkata – 700 026
2. ESTIMATING & COSTING IN CIVIL ENGINEERING THEORY & PRACTICE INCLUDING SPECIFICATION & VALUATION / B. N. DUTTA / UBSPD

BUILDING MAINTENANCE

Subject Code
ARCH / 6 / T4 / BDMT

Course offered in
Sixth Semester

Duration
17 weeks

2 lecture contact periods
per week

Full Marks
50

OBJECTIVE

On satisfactory completion of the course, the students will be in a position to understand:—

- (i) the methods of repairing different parts of a building, viz. foundation, masonry walls, RCC & steel structures and timber works;
- (ii) causes of dilapidation of buildings and when a building is to be considered for demolition.

MODULAR DIVISION OF THE SYLLABUS

GROUP	MODULE	TOPIC	CONTACT PERIODS
A	1	OPERATION, MAINTENANCE & REPAIR OF BUILDINGS	6
	2	FOUNDATION	1
	3	MASONRY WALLS	8
	4	FLOORS & ROOFS	2
B	5	R.C.C. & STEEL STRUCTURES	10
	6	TIMBER WORKS	1
	7	DILAPIDATION OF BUILDINGS	2

CONTACT PERIODS: 30

INTERNAL ASSESSMENT: 4

TOTAL PERIODS: 34

EXAMINATION SCHEME

GROUP	MODULE	OBJECTIVE QUESTIONS				SUBJECTIVE QUESTIONS			
		TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS	TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS
A	1, 2, 3, 4	15	ANY TWENTY	ONE	1 X 20 = 20	FIVE	FIVE, TAKING AT LEAST TWO FROM EACH GROUP	TEN	10 X 5 = 50
B	5, 6, 7	10				FOUR			

DETAIL COURSE CONTENT

GROUP – A

17 PERIODS

1.0 OPERATION, MAINTENANCE & REPAIR OF BUILDINGS

6

- 1.1 Introduction
- 1.2 Operation, maintenance and repairs of buildings
- 1.3 Maintenance
- 1.4 Distress of structures – Causes of distress – Defect – Decay
- 1.5 Damage – Detection of damage – Removal of damage – Repairs of structures
- 1.6 Classification of maintenance of works
- 1.7 Annual budgetary provision
- 1.8 Determination of approximate age of a building

2.0 FOUNDATION

1

- 2.1 Settlement of foundation – Causes
- 2.2 Repairs to foundation

3.0 MASONRY WALLS

8

- 3.1 Damp walls – Causes – Effects
- 3.2 Remedies – Permanent remedies
- 3.3 Condensation
- 3.4 Efflorescence – Causes – Effects – Eradication of efflorescence
- 3.5 Cracks in walls – Causes of development of cracks – Structural cracks and surface cracks – Investigation – Remedial and preventive measures
- 3.6 Precaution while carrying repairs of load bearing walls
- 3.7 Defects in plastering and repair works – Repairs
- 3.8 Effect of age, weather, environment and temperature – Variation on masonry structure

4.0 FLOORS & ROOFS

2

- 4.1 RCC roofs with lime terracing leaking – Remedial measures

- 4.2 Water proofing compounds – Water proofing white wash – Water proofing solutions – Sylvester process of water proofing the surface
- 4.3 Filling cracks in terraced roof – Repairing hair cracks
- 4.4 Destroying the vegetation with roots in masonry

GROUP – B

13 PERIODS

- 5.0 R.C.C. & STEEL STRUCTURES** **10**
- 5.1 Factors affecting durability of concrete – Remedial measures
- 5.2 Maintenance and rehabilitation – Repair of concrete structures – Physical examination of common defects and damages – Inspection of the cracks
- 5.3 Repairs in conventional method – Structural repairs and strengthening – Repairs to structures by new development: Chemicals – Other new developments
- 5.4 Causes of failure of RCC framed structures
- 5.5 Decay of different parts of stair
- 5.6 Preliminary to maintenance of steel structures: Maintenance procedure – Protective surface coating
- 6.0 TIMBER WORKS** **1**
- 6.1 Protection of timber works
- 6.2 Repairs to wooden shutters
- 7.0 DILAPIDATION OF BUILDINGS** **2**
- 7.1 Dilapidated Building – Building unsafe for habitation – Causes of dilapidation of buildings – Rehabilitation of dilapidated building
- 7.2 Factors influencing the degree of dilapidation of buildings
- 7.3 When a building is to be considered for demolition.

REFERENCE BOOKS

MAINTENANCE AND REPAIRS OF BUILDINGS / P. K. GUHA / NEW CENTRAL BOOK AGENCY (P) LTD.
8/1 CHINTAMONI DAS LANE, KOLKATA – 700 009

ALTERNATIVE BUILDING TECHNOLOGY

(ONE OF THE COURSES OFFERED AS ELECTIVE)

ALTERNATIVE BUILDING TECHNOLOGY – II

Subject Code	Course offered in	Course Duration	2 lecture contact periods	Full Marks
ARCH / 6 / T5 / ABT2	Sixth Semester	17 weeks	per week	50

DETAIL COURSE CONTENT

- 1.0 Introduction to the contribution of Laurie baker. **10 PERIODS**
- 2.0 One case study of a building where cost effective technologies have been used. **10 PERIODS**
 - Name of the project / area / uses
 - Name of the architect
 - Cost effective technology in – foundation, wall, lintel, roof
 - Total cost of the project
- 7.4 **Special requirements for low income housing – Part-III Appendix-d of N.B.C.** **10 PERIODS**

INTERIOR DESIGN

(ONE OF THE COURSES OFFERED AS ELECTIVE)

INTERIOR DESIGN – II

Subject Code ARCH / 6 / T5 / ID2	Course offered in Sixth Semester	Course Duration 17 weeks	2 lecture contact periods per week	Full Marks 50
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OBJECTIVE

On successful completion of the course, the students should be in a position to understand the:—

- (i) application of colour and artificial lighting as tools for designing interior spaces;
- (ii) construction detail and suitability of usage of different materials in partition walls;
- (iii) principles of varnishing; and,
- (iv) use of interior accessories like indoor plants, curtains and pelmets.

MODULAR DIVISION OF THE SYLLABUS

GROUP	MODULE	TOPIC	CONTACT PERIODS
A	1	COLOUR	12
B	2	ARTTIFICIAL LIGHTING	10
C	3	PARTITION WALLS	2
	4	VARNISHING	4
	5	OTHER INTERIOR ACCESSORIES	2

CONTACT PERIODS: 30 INTERNAL ASSESSMENT: 4 TOTAL PERIODS: 34

EXAMINATION SCHEME

GROUP	MODULE	OBJECTIVE QUESTIONS				SUBJECTIVE QUESTIONS			
		TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS	TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS
A	1	10	ANY TWENTY	1	1 x 20 = 20	THREE	FIVE, TAKING AT LEAST ONE FROM EACH GROUP	TEN	5 X 10 = 50
B	2	8				TWO			
C	3, 4, 5	7				THREE			

DETAIL COURSE CONTENT

GROUP - A

12 PERIODS

Module 1 COLOUR

- 1.1 Colour Theory: Subtractive colours – Additive colours
- 1.2 PROPERTIES OF COLOUR: Hue – Value – Chrome
- 1.3 COLOUR WHEEL: Primacy colours – Secondary colours – Tertiary colours – Complementary colours
- 1.4 COLOUR SCHEMES: RELATED (Monochromatic & Analogous) – CONTRASTING (Complementary, Split Complimentary, Triad & Tetrad) — Principles of working out a colour scheme: Dominant or controlling colours – Greying – Relief & contrast colours – Accent colours – Keying
- 1.5 COLOUR & HUMAN PERCEPTION: Effects of colour on human perception — Preparation of colour scheme for Residential, Commercial and Office spaces

GROUP - B

10 PERIODS

Module 2 ARTIFICIAL LIGHTING

- 2.1 BASIC LIGHT SOURCES: Incandescent & Fluorescent (definitions, properties & suitability of uses)
- 2.2 TYPES: General, Task and Accent (definitions, properties & suitability of uses)
- 2.3 MODES: Up Lighting, Down Lighting & Wall Washing (definitions, properties & suitability of uses)
- 2.4 ARCHITECTURAL LIGHTING: Cove Lighting – Soffit Lighting – Valance Lighting
- 2.5 Lighting design for residential, commercial and office spaces.

GROUP - C

8 PERIODS

Module 3 PARTITION WALLS

2

CONSTRUCTION DETAILS AND SUITABILITY OF USAGE of timber & timber products, glass (sheet & block), metal sheets and gypsum board as partition walls.

Module 4 VARNISHING

4

- 4.1 Types of varnish: Oil based & Spirit based (definition and constituents)
- 4.2 French Polish: lacquer, stain (definition and constituents)
- 4.3 Varnishing techniques for old and new wood surfaces

Module 5 OTHER INTERIOR ACCESSORIES

2

- 5.1 INTERIOR (PLANTS) LANDSCAPING: Relevance of bansai, cactus and other indoor plants used in interior design – Categories of houseplants – Factors to be considered for arrangement of interior plants.
- 5.2 WINDOW TREATMENT: Roller Blinds – Venetian Blinds – Vertical Blinds – Curtain finishes & applications.

REFERENCE BOOKS

1. TIME-SAVER STANDARDS FOR Interior Design and Space Planning / Chiara & Panero / McGraw-Hill
2. INTERIOR DESIGNER’S PORTABLE HANDBOOK / J.P. Guthrie / McGraw-Hill
3. ARCHITECTURAL GRAPHIC STANDARDS / Ramsey & Sleeper / John Wiley & Sons, New York
4. HISTORY OF INTERIOR DESIGN & FURNITURE: From Ancient Egypt to Nineteenth Century Europe / R. Blackmore / Wiley
5. INTERIOR DESIGN ILLUSTRATED / F.D.K. Ching / Wiley
6. The Complete Home Design Book / Grey, Ardley, Hall, Katz, Garenta & Weiss / Dorling Kindersley
7. COLOR for INTERIOR ARCHITECTURE / M.C. Miller / John Wiley & Sons, New York
8. The Lighting Pattern Book for Homes / Lighting Research Center / McGraw-Hill
9. OUTDOOR LIGHTING PATTERN BOOK / Lighting Research Center / McGraw-Hill
10. Lighting Design Sourcebook 600 Solutions for Residential and Commercial Spaces / R. Whitehead / Rockport
11. INTERIOR DESIGN Principles and Practice / M.P. Rao / Standard Publishers Distributors
12. Color in Interior Design / John Pile / McGraw-Hill
13. Window Treatments / Heather Luke / Merehurst, London

LANDSCAPE DESIGN

(ONE OF THE COURSES OFFERED AS ELECTIVE)

LANDSCAPE DESIGN – II

Subject Code ARCH / 6 / T5 / LD2	Course offered in Sixth Semester	Course Duration 17 weeks	2 lecture contact periods per week	Full Marks 50
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OBJECTIVE

On successful completion of the course, the students will have a brief idea of:—

- (i) site planning in relation to landscaping;
- (ii) natural and manmade elements of landscaping.

MODULAR DIVISION OF THE SYLLABUS

GROUP	MODULE	TOPIC	CONTACT PERIODS
A	1	SITE PLANNING	1
	2	NATURAL ELEMENTS OF LANDSCAPING	9
	3	MANMADE ELEMENTS OF LANDSCAPING	20

CONTACT PERIODS: 30 INTERNAL ASSESSMENT: 4 TOTAL PERIODS: 34

EXAMINATION SCHEME

GROUP	MODULE	OBJECTIVE QUESTIONS				SUBJECTIVE QUESTIONS			
		TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS	TO BE SET	TO BE ANSWERED	MARKS PER QUESTION	TOTAL MARKS
A	1, 2	10	ANY TWENTY	ONE	1 x 20 = 20	TWO	FIVE, TAKING AT LEAST TWO FROM EACH GROUP	TEN	5 X 10 = 50
B	3	15				THREE			

DETAIL COURSE CONTENT

GROUP - A

10 PERIODS

Module 1 SITE PLANNING

1

- 1.1 Need, Definition and Scope for site planning
- 1.2 Relationship in between site planning and landscaping
- 1.3 Layout and maintenance of drainage
- 1.4 Layout and standards of road and pedestrian paths

Module 2 NATURAL ELEMENTS OF LANDSCAPING

9

ROCK & LANDFORM — WATER — PLANTS: Different types of trees, shrubs, ground covers and climbers with their characteristics mentioning the basis of their selection for different purposes

GROUP - B

20 PERIODS

Module 3 MANMADE ELEMENTS OF LANDSCAPING

MATERIALS, CONSTRUCTION DETAILS AND MAINTENANCE of the following manmade elements of landscaping:—

- 3.1 Outdoor Furniture — Outdoor Light Fixtures — Signage & Signboard — Sculpture — Fences
- 3.2 PAVING: Hard and soft – Layout for formal and informal paving – Different kinds of paving materials: soil, stabilized murrum, brick & stone
- 3.3 Artificial Rock — Artificial Waterfall

REFERENCE BOOK

1. TIME-SAVER STANDARDS FOR LANDSCAPE ARCHITECTURE / Dines & Harris / McGraw-Hill
2. LANDSCAPE ARCHITECT'S PORTABLE HANDBOOK / N. Dines / McGraw-Hill
3. Landscape Architecture / J. O. Simonds / Liffie, London
4. Designs of the Landscape / Preece / CBS
5. Landscape Detailing Vol. I / M. Little wood / CBS
6. Landscape Detailing Vol. II / M. Little wood / CBS
7. Landscape for Living / G. Eckbe / F. W. Dodge Corporation, N.Y.

SESSIONAL COURSES OFFERED IN 6TH SEMESTER, PART - III

WORKING DRAWING - II

Subject Code
ARCH / 5 & 6 / S3 / SWKD2

Course offered in
Part – III

Full Marks
150

OBJECTIVE

On satisfactory completion of the course, the students will be in a position to prepare a set of working drawings of a G + 4 storied apartment in simple framed structure, drawn manually.

COURSE & EXAMINATION SCHEDULE

NAME OF THE COURSES	COURSES OFFERED IN	MARKS ALLOTTED
WORKING DRAWING - II (GROUP - A)	FIFTH SEMESTER	CONTINUOUS INTERNAL ASSESSMENT OF 75 MARKS IS TO BE CARRIED OUT BY THE TEACHERS THROUGHOUT THE TWO SEMESTERS WHERE MARKS ALLOTTED FOR ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN 5TH SEMESTER IS 35 AND 6TH SEMESTER IS 40. EXTERNAL ASSESSMENT OF 75 MARKS SHALL BE HELD AT THE END OF THE PART - III SECOND SEMESTER ON THE ENTIRE SYLLABI OF WORKING DRAWING - II (GROUPS - A & B). DISTRIBUTION OF MARKS: DRAWING SHEETS - 50, VIVA-VOCE - 25.
WORKING DRAWING - II (GROUP - B)	SIXTH SEMESTER	

MODULAR DIVISION OF THE SYLLABUS

SHEET NO.	TOPIC	CONTACT PERIODS
WORKING DRAWING - II (GROUP - A) PART - III FIRST SEMESTER		75
1	GROUND FLOOR PLAN	12
2	TYPICAL FLOOR PLAN	12
3	ROOF PLAN	8
4, 5 & 6	ELEVATIONS	12
7 & 8	SECTIONAL ELEVATIONS	16
	TUTORIAL	15
WORKING DRAWING - II (GROUP - B) PART - III SECOND SEMESTER		75
9	FOUNDATION	8
10	STRUCTURAL DETAILS	12
11, 12 & 13	ELECTRICAL LAYOUT	12
14	KITCHEN & TOILET DETAIL	12
15	WATER SUPPLY & SEWERAGE	8
16	DETAIL DRAWING	8
	TUTORIAL	15

I

CONTACT PERIODS: 150 INTERNAL ASSESSMENT: 20 PERIODS TOTAL PERIODS: 170

DETAIL COURSE CONTENTS FOR SIXTH SEMESTER

A set of working drawings in 1 : 50 scale, unless other wise mentioned, of a simple framed structure. The architectural design may be one designed by the student in the subject Architectural Design & Drawing – I (Group – B) in Part – II Second Semester, or may be supplied by teacher-in-charge.

SHEET NO. 9 FOUNDATION 8

Showing plot line, columns and tie-beam with centre-line dimension, column & wall footing, plinth beam, column, beam and footing marking, one diagonal dimension of corner columns.

SHEET NO. 10 STRUCTURAL DETAILS 12

Reinforcement details of – (i) column footing, (ii) column, (iii) tie-beam, (iv) floor beam (from support to support) (transverse & cross section), (v) slab; (vi) lintel with chhajja, (vii) loft slab, (viii) staircase flight with landing [all in 1:20 scale], and, (ix) slab reinforcement layout [in 1:100 scale].

Schedules are to be provided showing type, size, reinforcement, binder for – (i) column footing, (ii) tie-beam, (iii) column, (iv) floor beam, (v) slab.

SHEET NO. 11, 12 & 13 ELECTRICAL LAYOUT 12

Electrical layout of ground floor, typical floor & roof showing conduit positions of meter box, distribution box, switch board, light & fans, socket outlets with symbols in conjunction with furniture layout [in 1:50 scale], and, legend of symbols.

SHEET NO. 14 KITCHEN & TOILET DETAIL 12

Only plan and section [in 1:25 scale] showing fixture positions and dimensions of fixture, counter, Waste Pipe, Soil Pipe, floor trap, water supply line & slope line.

SHEET NO. 15 WATER SUPPLY & SEWERAGE 8

Ground floor plan [in 1:100 scale] showing plot line, water connection from main to semi under ground reservoir, riser, septic tank, Inspection Chamber, Gully Trap, Yard Gulley – sectional plans & elevations of under ground reservoir, septic tank & over head tank.

SHEET NO. 16 DETAIL DRAWING 8

To be provided, when the information provided by the above sheets is not sufficient.

ARCHITECTURAL DESIGN & DRAWING - II

Subject Code
ARCH / 5 & 6 / S4 / SAD2

Course offered in
Part – III

Full Marks
250

COURSE & EXAMINATION SCHEDULE

SUBJECT CODES	NAME OF THE COURSES	COURSES OFFERED IN	MARKS ALLOTTED
ARCH / 5 & 6 / S4 / SAD2	Architectural Design & Drawing (S) – II (Group – A)	FIFTH SEMESTER	<p>Continuous Internal assessment of 75 marks is to be carried out by the teachers throughout the two semesters where marks allotted for assessment of sessional work undertaken in 5TH semester is 35 & in 6TH semester is 40. Distribution of marks for Design problem is 50 & Time Sketch is 25.</p> <p>External assessment of 75 marks shall be held at the end of the Part – III Second Semester on the entire syllabi of Architectural Design & Drawing(S) – II (Groups – A & B). Distribution of marks: Drawing Sheets – 50, Viva-voce – 25.</p>
	Architectural Design & Drawing (S) – II (Group – B)	SIXTH SEMESTER	
ARCH / 6 / T6 / ADD2	Architectural Design & Drawing – II	SIXTH SEMESTER	<p>A twelve-hour examination of 100 marks, spread over two days, is to be held during the Part – III Second Semester examinations on the syllabus of Architectural Design & Drawing (S) – II. Out of 2 questions set; any 1 is to be answered. The 2 internal assessments of 3 hours duration each are to be taken on the same syllabus. The Municipal Building Rules and the National Building Code of India, 1983 are allowed during the examinations.</p>

MODULAR DIVISION OF THE SYLLABUS

GROUP	MODULE	TOPIC	CONTACT PERIODS
A (DESIGN & DRAWING)	ARCHITECTURAL DESIGN & DRAWING – II (GROUP – A) FIFTH SEMESTER		75
	1	CONCEPT DESIGN	32
	2	FIRST REVIEW	8
	3	DESIGN FINALISATION	20
	4	TUTORIALS	15
	ARCHITECTURAL DESIGN & DRAWING – II (GROUP – B) SIXTH SEMESTER		75
	5	PREPARATION OF PRESENTATION DRAWINGS	20
B (TIME SKETCH)	6	SECOND REVIEW	10
		TUTORIALS	15
	8	INTRODUCTION & EXPLANATION OF THE TIME SKETCH	4
	9	STUDY FOR THE TIME SKETCH	4
	10	SOLVING THE TIME SKETCH	16
	11	DESIGN PRESENTATION & REVIEW	6

CONTACT PERIODS: 150

INTERNAL ASSESSMENT: 20 PERIODS

TOTAL PERIODS: 170

DETAIL COURSE CONTENTS

GROUP – A DESIGN & DRAWING

120 PERIODS

Design and drawing of any one of the following topics should be conducted as per the modular division of the syllabus throughout the entire of Part – III First Semester and half of Part – III Second Semester: —

A district library, a higher secondary school, a hostel, a hotel for around 40 guests with combination of rooms of different categories, an office building, a secondary school, a shopping complex or any other topic of equivalent weightage.

The problem should be designed keeping in consideration all the provisions of bye-laws.

The design should be presented through a set of architectural drawings in a suitable scale consisting of at least the following sheets: —

- (a) site layout showing means of access, approach to the designed building, open parking spaces (if any), planting and landscaping;
- (b) plans showing furniture layout, parking spaces (if any), planting and landscaping (wherever applicable);
- (c) elevation(s);
- (d) minimum two sectional elevations cutting at least the toilet(s), stairs and any other service area (if any).

The drawings should be suitably rendered in pen and ink or colour or any other suitable medium.

GROUP – B TIME SKETCH

30 PERIODS

A time-bound design and drawing problem on any one of the following topics: —

A community centre, a cultural centre, a diagnostic centre, a guest house, a health club, a motel, an old age home, a professional's residence with arrangement of practice for his / her profession, a recreation centre or any other topic of equivalent weightage.

The problem should be designed keeping in consideration all the provisions of bye-laws.

ARCHITECTURAL PROJECT WORK & SEMINAR

Subject Code
ARCH / 5 & 6 / S5 / APRWS

Courses offered in Part – III

Full Marks
150

OBJECTIVE

Project Work is intended to provide opportunity for students to develop understanding of the interrelationship between different courses learnt in the entire diploma programme and to apply the knowledge gained in a way that enables them to develop & demonstrate higher order skills. The basic objective of a project class would be to ignite the potential of students' creative ability by enabling them to develop something which has social relevance, aging, it should provide a taste of real life problem that a diploma-holder may encounter as a professional. It will be appreciated if the polytechnics develop interaction with local industry and local developmental agencies viz. different panchayet bodies, the municipalities etc. for choosing topics of projects and / or for case study. The course further includes preparation of a Project Report which, among other things, consists of technical description of the project. The Report should be submitted in two copies, one to be retained in the library of the institute. The Report needs to be prepared in computer using Word and CADD software wherever necessary.

Seminar on Project Work is intended to provide opportunity for students to present the Project Work in front of a technical gathering with the help of different oral, aural and visual communication aids which they learnt through different courses in the Parts – I & II of the diploma course. In the Seminar, students are not only expected to present their Project Work, but also to defend the same while answering questions arising out of their presentation.

GENERAL GUIDELINE

Project Work is conceived as a group work through which the spirit of team building is expected to be developed. Students will be required to carry out their Project Works in groups under supervision of a lecturer of their core discipline who will work as a Project Guide. It is expected that most of the lecturers of the core discipline will act as project guide and each should supervise the work of at least two groups. Number of students per group will vary with the number of lecturers acting as Project Guide and student strength of that particular class.

COURSE & EXAMINATION SCHEDULE

SUBJECT CODE	NAME OF THE COURSES	COURSES OFFERED IN	MARKS ALLOTTED
ARCH / 5 & 6 / S5 / SPRW	Architectural Project Work (Group – A)	Fifth Semester	Continuous Internal assessment of 75 marks is to be carried out by the teachers throughout the two semesters where marks allotted for assessment of sessional work undertaken in 5TH semester is 35 & in 6TH semester is 40. External assessment of 75marks shall be held at the end of the Part – III Second Semester on the seminar to be presented by the students on the entire syllabi of Architectural Project Work. The external examiner is to be from industry / engineering college / university / government organisation. Distribution of marks: Drawing Sheets, Model & Project Report –50, Seminar – 25.
	Architectural Project Work (Group – B)	Sixth Semester	

MODULAR DIVISION OF THE SYLLABUS

COURSE	MODULE	TOPIC	CONTACT PERIODS
ARCHITECTURAL PROJECT WORK (GROUP – A) Fifth Semester Course Duration: 15 Weeks 4 sessional contact periods per week Contact Periods: 60	1	Introduction of the subject “Architectural Project Work” and group formation	2
	2	Topic selection and finalisation	4
	3	Study (from Standards & Reference Books)	8
	4	Case Study (from Primary & Secondary Sources)	
	5	Site Analysis and Zoning	4
	6	Identification of space and area requirement	2
	7	Flow Chart and Bubble Diagram	8
	8	Design in orthographic projection	32
ARCHITECTURAL PROJECT WORK (GROUP – B) Sixth Semester Course Duration: 15 Weeks 4 sessional contact periods per week Contact Periods: 60	9	Review of Design in the form of Seminar	10
	10	Preparation of Presentation Drawings	12
	11	Preparation of Municipal Drawings	4
	12	Drawing a View and / or making a Model	8
	13	Calculation of Preliminary Estimate	4
	14	Project Report Preparation	12
	15	Seminar on Final Presentation	10

CONTACT PERIODS: 60

INTERNAL ASSESSMENT 8

TOTAL PERIODS: 68

THE ARCHITECTURAL PROJECT

Each group, under the guidance of a project guide, will select one topic and precaution should be taken so that it does not become repetition of those undertaken under the subjects Architectural Design & Drawing – I & II. While selection of the topic, care should be taken to see that its scale remains well within the scope of the particular group of students. The choice of medium & mode of presentation, the scale of drawing (s), and, the number of sheets are to be decided by the students under the guidance of the project guide.

ALTERNATIVE BUILDING TECHNOLOGY

(ONE OF THE COURSES OFFERED AS ELECTIVE)

ALTERNATIVE BUILDING TECHNOLOGY (S)

Subject Code	Course offered in	Course Duration	4 sessional contact periods	Full Marks
ARCH / 6 / S6 / SABT	Sixth Semester	17 weeks	per week	100

EXAMINATION SCHEME

1. **Continuous Internal Assessment of 50 marks** is to be carried out by the teachers throughout Part – III Second Semester.
2. **External Assessment of 50 marks** shall be held at the end of the Part – III Second Semester on the entire syllabus. **DISTRIBUTION OF MARKS: DRAWING SHEETS – 35, VIVA-VOCE – 15.**

CONTACT PERIODS: 60

INTERNAL ASSESSMENT: 8

TOTAL PERIODS: 68

DETAIL COURSE CONTENT

Planning of one storey residential building (750sq.f.) has to be done considering the cost effective technology. Cost effective technologies for different parts of building will be as follows:—

Foundation	:	Stub foundation
Wall	:	Rat Trap bond using common brick
Lintel	:	Corbel / arch
Roof	:	Filler slab

SHEET NO.1 (IMPERIAL)

20 PERIODS

- Plan – 1:100
- Foundation Plan – 1:100
- Sections of stub foundation – 1:100
- 3D view (axonometric) of a portion of stub foundation
- Comparison of costing between the conventional brick foundation & stub foundation

SHEET NO.2 (IMPERIAL)

20 PERIODS

- Plan of rat trap bond at 1st, 2nd & 3rd layer of – (i) corner, (ii) L-junction, (iii) T-junction, (iv) door opening.
- Plan of rat trap bond at sill level
- Plan of rat trap bond at level – 1200mm
- Details of arch / corbelling over openings
- Cost comparison between rat trap & English bond

SHEET NO.3 (IMPERIAL)

20 PERIODS

- Reinforcement plan at roof level.
- Details of junction of roof & R.W.P.
- Cost comparison between filler slab and conventional R.C.C. slab.

INTERIOR DESIGN

(ONE OF THE COURSES OFFERED AS ELECTIVE)

INTERIOR DESIGN (S)

Subject Code	Course offered in	Course Duration	4 sessional contact periods	Full Marks
ARCH / 6 / S6 / SID	Sixth Semester	17 weeks	per week	100

OBJECTIVE

On successful completion of the course, a student will be in a position to prepare design schemes of interior of residential or commercial or business spaces.

EXAMINATION SCHEME

1. **Continuous Internal Assessment of 50 marks** is to be carried out by the teachers throughout Part – III Second Semester giving proportional weightage to each sheet.
2. **External Assessment of 50 marks** shall be held at the end of the Part – III Second Semester on the entire syllabus. **DISTRIBUTION OF MARKS: DRAWING SHEETS – 35, VIVA-VOCE – 15.**

DETAIL COURSE CONTENT

Each student is required to prepare design of an interior space of a commercial / a business space. The sessional work should consist of the following scheme of sheets.

SCHEME OF SHEETS AND TIME SCHEDULE

SHEET NO.	CONTENT	SHEET SIZE	PERIODS
1	DESIGN OF INTERIOR SPACES SHOWING FURNITURE LAYOUT IN PLAN (BOTH MOVABLE & BUILT-IN) IN 1 : 25 SCALE	1 NO. ½ IMPERIAL	16
2	FLOOR PATTERN LAYOUT (WITHOUT FURNITURE) IN 1 : 25 SCALE	1 NO. ½ IMPERIAL	6
3 & 4	FOUR SECTIONAL ELEVATIONS SHOWING FURNITURE, FIXTURES & COLOUR SCHEME IN 1 : 25 SCALE	2 NO. ½ IMPERIAL	12
5	REFLECTED CEILING PLAN INCLUDING ELECTRICAL LAYOUT, MECHANICAL VENTILATION AND FIRE FIGHTING SYSTEMS IN 1 : 25 SCALE	1 NO. ½ IMPERIAL	10
6 & 7	DETAIL DESIGN OF SKIRTING, DADO, DOOR & WINDOW TREATMENT WITH ARCHITRAVES & MOULDS, WALL PANELLING, FALSE CEILING AND FURNITURE IN SUITABLE SCALE.	2 NO. ½ IMPERIAL	16

CONTACT PERIODS: 60

INTERNAL ASSESSMENT: 8

TOTAL PERIODS: 68

LANDSCAPE DESIGN

(ONE OF THE COURSES OFFERED AS ELECTIVE)

LANDSCAPE DESIGN (S)

Subject Code
ARCH / 6 / S6 / SLD

Course offered in
Sixth Semester

Course Duration
17 weeks

4sessional contact periods
per week

Full Marks
100

OBJECTIVE

On successful completion of the course, a student will be in a position to prepare landscaping schemes for residential and commercial spaces.

MODULAR DIVISION OF THE SYLLABUS

MODULE	TOPIC	CONTACT PERIODS
1	LANDSCAPING OF A RESIDENTIAL SPACE	34
2	LANDSCAPING OF A COMMERCIAL SPACE	34

CONTACT PERIODS: 60

INTERNAL ASSESSMENT: 8

TOTAL PERIODS: 68

EXAMINATION SCHEME

1. **Continuous Internal Assessment of 50 marks** is to be carried out by the teachers throughout Part – III Second Semester giving equal weightage to each module.
2. **External Assessment of 50 marks** shall be held at the end of the Part – III Second Semester on the entire syllabus. **DISTRIBUTION OF MARKS: DRAWING SHEETS – 35, VIVA-VOCE – 15.**

DETAIL COURSE CONTENT

Module 1 LANDSCAPING OF A RESIDENTIAL SPACE

45

Students are required to prepare landscaping schemes for a *given residential space* which has a recreational space attached to it in the form of a park and / or a playground. *Each student is to select his or her site* in consultation with the teacher-in-charge, which may be designed by the student in the previous semesters or a one designed by any other architect collected from primary or secondary source. In any case, credit is to be given to the landscaping scheme, and, not to the architectural design of the built space.

Drawings are to be presented in suitable scale providing information regarding the natural and / or manmade elements used along with necessary details of construction wherever necessary. The drawings should be restricted to three half-imperial sheets.

Module 2 LANDSCAPING OF A COMMERCIAL SPACE

45

Each student is required to prepare landscaping schemes for a *given commercial space* which may or may not have a public space attached to it in the form of a plaza or a square. *The design is to be supplied by the teacher-in-charge.* Credit is to be given to the landscaping scheme, and, not to the architectural design of the built space.

Drawings are to be presented in suitable scale providing information regarding the natural and / or manmade elements used along with necessary details of construction wherever necessary. The drawings should be restricted to three half-imperial sheets.

GENERAL VIVA-VOCE

Subject Code
ARCH / 6 / S7 / GVV

Course offered in
Sixth Semester

Full Marks
50

COURSE CONTENT

The syllabi of all the theoretical and sessional subjects taught in the three years of diploma education.

EXAMINATION SCHEME

The Final Viva-Voce Examination shall take place at the end of the **Sixth** Semester. It is to be taken by one External Examiner in the presence of one Internal Examiner (the Head of the Department or a senior Lecturer of the department). The **External Examiner** is to be from industry / engineering college / university / government organisation and he / she should give credit out of **50 marks**.