

**SEMESTER - V, YEAR – III
DESIGN STUDIO – IV**

SR. NO.	COURSE CODE	COURSE TYPOLOGY	NAME OF THE COURSE	L	T	S	CREDIT	EVALUATION									TOTAL MARKS	EXAM DURATION HRS
								THEORY					TOTAL	STUDIO		TOTAL		
								MST	MST	AVG MST	SS	ESUE		IA	EV			
1	BDES 501	STUDIO	DESIGN STUDIO - IV	-	-	8	8	0	0	0	0	0	0	200	200	400	400	

INTRODUCTION

Course is introduced to impart the knowledge of workspaces for different field professionals.

GUIDELINES

- Workspace requirement in terms of visual & physical functionality is different for different types of professionals, understanding of the function to be focused while designing the spaces.
- Models of workstations , spaces should be made with the advanced detailing.

CONTENTS:

1. SMALL SCALE WORKSPACE FOR PROFESSIONALS

Small office for professionals like lawyers, Architects, Interior designers, consultants , One or two level projects, Mezzanine floors details , Innovative Furniture design in terms of materials and outlook ,joinery such as workstations, Waiting area furniture, Cabin furniture .etc. optimum use of space available.

2. CORPORATE OFFICE

Design and detailing of large office spaces like Software MNC Offices , BPO , Corporate Offices. Work zones, Conference Halls, receptions , Individual cabins. Interactive zones, recreational activities, kitchens. Interior Layout detailing in a large space . Materials, furniture specifications, Service layouts , finishes .

REFERENCE BOOKS

1. Time-Saver Standards for Interior Design and Space Planning, Joseph De Chiara, Julius Panero,
2. Space Planning for Commercial Office Interiors , Book by Mary Lou Bakker
3. Planning Office Space , Frank Duffy, John Worthington
4. Best of Office Architecture & Design , Cindy Allen
5. The Other Office 2: Creative Workplace Design , William Georgi

ADVANCED MATERIAL AND CONSTRUCTION - II

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								THEORY					TOTAL	STUDIO			TOTAL	
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2	BDES 502	THEORY CUM STUDIO	ADVANCED MATERIALS AND CONSTRUCTION - II	1	1	4	6	20	20	20	20	50	90	60	50	110	200	3

INTRODUCTION

Understanding of advanced and contemporary building materials in interiors, and their detailing.

GUIDELINES

Advanced material construction and techniques to be focused with the help of Market survey, and case studies.

CONTENTS

1. CLADDING MATERIALS

Advanced materials and its constructions-like – A.C.P – Used as interior material, Used for exterior with details Vinyl cladding, Aluminum cladding, wooden, fiber cement, brick, stone, laminate, steel etc.

2. FABRICATION

Elementary knowledge of Details of installation and joinery in fabrication in various interior works such as partitions, furniture, staircases, roofs, floors etc. Polycarbonate sheet: - For Parking courtyard or open to sky covering. Hardware, Fittings and fixtures.

3. ACOUSTICAL TREATMENT

Acoustical panels, materials, construction techniques, effect on interiors, doors, windows, partitions, wall treatments. Etc.

4. ALTERNATIVE MATERIALS AND TECHNOLOGY IN INTERIORS

REFERENCE BOOKS

1. W.B.Mckay –Building construction Vol1 –Longmans, UK 1981
2. W.B.Mckay –Building construction Vol 3,5 –Longmans, UK 1981
3. Construction and Detailing for Interior Design by Drew Plunkett
4. The Codes Guidebook for Interiors by Sharon K. Harmon and Katherine E. Kennon

FURNITURE DESIGN – III

SR. NO.	COURSE CODE	COURSE TYPOLOGY	NAME OF THE COURSE	L	T	S	CREDIT	EVALUATION								TOTAL MARKS	EXAM DURATION HRS	
								THEORY					TOTAL	STUDIO				TOTAL
								MST	MST	AVG MST	SS	ESUE		IA	EV			
3	BDES 503	THEORY CUM STUDIO	FURNITURE DESIGN -III	1	1	2	4	20	20	20	20	50	90	60	50	110	200	3

INTRODUCTION

Designing the office furniture and understanding the joinery details, finishes, & maintenance part .

GUIDELINES

Practical knowledge should be provided to the students with the help of models, and hands on exercises of joinery in the workshops.

CONTENTS :

1. OFFICE FURNITURE DETAILING

Detailing of Office Furniture, cabinets, storage spaces, cabin furniture , waiting area furniture, workstations, computer tables, lockers, conference table. Etc.

2. INNOVATIVE FURNITURES

Innovative , contemporary furniture designing and detailing of joinery and other specifications. Coffee tables, sofas, workstations, book shelves , beds , extensions.

REFERENCE BOOKS

1. Illustrated Cabinetmaking: How to Design and Construct Furniture That Works, by Bill Hylto
2. Mid-Century Modern: Interiors, Furniture, Design Details, by Bradley Quinn
3. The Encyclopedia of Furniture: Third Edition, by Joseph Aronso
4. Furniture Design: An Introduction to Development, Materials and Manufacturing, by Stuart Lawson

WORKING DRAWINGS – II (CAD)

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4	BDES 504	STUDIO	WORKING DRAWINGS -II (CAD)	-	-	2	2	0	0	0	0	0	0	50	50	100	100	

INTRODUCTION

To enhance the presentation skills with computer graphics.

GUIDELINES

Project Drawings should be detailed out on 2D & 3D software both such as technical drawings and interior views .

CONTENT

Minimum two Interior Design studio Projects of different functions such as one residential and one commercial from the last semesters to be presented with complete technical details on 2D CAD drawings, Views and walk through.

REFERENCE BOOKS

1. De Chiara and Callender – Time Saver Standards for interior design, 1982.
2. The Interior Design Reference & Specification Book , by Linda O'Shea

SERVICES – II

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5	BDES 505	THEORY	SERVICES - II	2	1	-	3	10	10	10	40	50	100	0	0	0	100	3

INTRODUCTION

To introduce the students to the basic principles of Mechanical and Electrical services of the building.

GUIDELINES

Study should be done making focus on regular site visits, observing the designing and installation process of the services.

CONTENTS:

1. AIR CONDITIONING -

H. V. A. C.– Air-conditioning systems for different types of buildings

Duct layout etc

Type of A.C :-System of air conditioning – central plant – refrigerants – chillers-planning & Installation

2. ARTIFICIAL LIGHTING:-

Layouts for electrical services, types of light points, positions , cover and fixtures , capacity , different types of wiring systems , LUX. Earthing details M.C.B. technical representation of fixtures. Electric layout for a small space.

3. SECURITY SYSTEMS:-

C.C.T.V. installation , layouts , glass break detectors , sensors , access control etc.

4. FIRE SAFETY

Mechanism of fire fighting system , layouts , fixtures - Heat sensitive detectors – Smoke detectors , sprinkler system- Foam systems.– Automatic water system

REFERENCE BOOKS

1. M.H.Lulla, Air conditioning
2. V.K.Jain, Fire Safety in Buildings.
3. R.G.Hopkinson and J.D.Kay, the Lighting of Buildings, Faber and Faber, London

ELECTIVE – I

SR. NO.	COURSE CODE	COURSE TYPOLOGY	NAME OF THE COURSE	L	T	S	CREDIT	EVALUATION									TOTAL MARKS	EXAM DURATION HRS
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6	BDES 506	STUDIO	ELECTIVE-I	-	-	3	3	0	0	0	0	0	0	100	0	100	100	

INTRODUCTION

Introduction to various arts and skills to be explored and used in development of Designing .

GUIDELINES

Workshops, case studies , hands on exercises should be planned by the experts to deliver the knowledge of the subjects.

LIST OF ELECTIVES

BDES 506.1	INTERIOR PHOTOGRAPHY
BDES 506.2	CREATIVE ART & CRAFT
BDES 506.3	CONSERVATION

BDES 506.1	INTERIOR PHOTOGRAPHY
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CONTENTS : PRINCIPLES OF COMPOSITION –

Rule of thirds, perspective-worm’s eye view, normal eye view, bird’s eye view, one-point perspective, two-point perspective, three point perspective, exercises in composition

Principals , Technical definitions, understanding a camera, anatomy of a SLR camera, technical setting in a SLR camera, different types of lenses, Technical definitions, lighting sources, types of lighting fixtures, types of lamps, calculating lighting levels, flash photography, types of flashes, controlling lighting levels with flash photography

BDES 506.2	CREATIVE ART & CRAFT
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CONTENTS :

Explore the various arts and crafts of India , through literature survey and site visits. Analysis of their impact on Interior Design. Developing ideas to incorporate arts and craft in the Design.

Traditional folk arts and crafts of various states of India including –Gujarat, Uttarpradesh, Kutch ,West Bengal, Orissa, Bihar, Tamilnadu , Karnataka, , Goa, Rajasthan, Jammu and Kashmir Kerala, Andhra Pradesh, etc . Art Movements in Post Modern India and their influences in Interior design –Pop art, Minimal art, Conceptual art – Abstract Expressionism, Neo Expressionism .

Case studies and design exercises for different functional spaces based on regional art and craft theories.

CONTENTS :

Principals and techniques of conservation . Need and Importance of the conservation in the modern world.

Restoration techniques for the structure , interiors , landscape . Maintenance issues , materials and equipment's.

Rate of deterioration and preventive measures.

Case studies , identification of the local buildings ,preparation of proposal document for the conservation of the structure.

SPACE CONTEXTUAL STUDIES

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7	BDES 507	STUDIO	SPACE CONTEXTUAL STUDIES	-	-	2	2	0	0	0	0	0	0	50	0	50	50	

INTRODUCTION

This subject is intended to study the environments of different building typologies and their functioning.

GUIDELINES

Case studies , to be presented for all the building typologies , whereas a minor design task of any one typology can be introduced for designing and detailing.

CONTENTS :

1. ENTERTAINMENT SPACES

- Café, restaurants, game zones, theaters , auditoriums etc.

2. TRANSPORTATION SPACES

- Railway stations, Bus stops/stands , Airports etc
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3. SPORTS SPACES

- Sports clubs, Gym, Stadiums ,Aquatic complex.
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4. COMMERCIAL SPACES

- Boutiques, Retail shops, showrooms , pubs, Banks, saloons etc
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5. EDUCATIONAL SPACES

- Class rooms, library, seminar halls, AV rooms etc

REFERENCE BOOKS

1. The Interior Design Reference & Specification Book:, by Linda O'Shea and Chris Grimley
2. Change Your Space, Change Your Culture: How Engaging Workspaces Lead to Transformation and Growth, by Rex Miller and Mabel Casey
3. Control System Design: An Introduction to State-Space Methods, by Bernard Friedland

WORKSHOP – GLASS AND PLASTIC

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8	BDES 508	LAB	WORKSHOP- GLASS AND PLASTIC	-	-	2	2	0	0	0	0	0	0	50	0	50	50	

INTRODUCTION

Understanding Glass and Plastic as a material and its related products ,Developing innovative forms , using these materials

CONTENT:

1. **PLASTIC:**

Properties of plastics, FRP, acrylic etc.

Processing plastics, preparation of mouldings , dying process.

Creating objects , application and precautions.

2. **GLASS:**

Study of Properties of glass

Various Types of glass –structural glass, architectural glass , strength , design flexibility .

Processing in glass making , techniques for the variations .

application of glass in interiors

Advantages and disadvantages of using glass

REFERENCE BOOKS

1. Glass Buildings: Material, Structure and Detail, by Heinz Krewinkel
2. Glass Bead Workshop: Building Skills, Exploring Techniques, Finding Inspiration , by Jeri L. Warhaftig
3. Fundamentals of Building Construction: Materials and Methods , by Edward Allen and Joseph Iano