

SEMESTER – VI , YEAR – III

DESIGN STUDIO – V

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 601	STUDIO	DESIGN STUDIO - V	-	-	8	8	0	0	0	0	0	0	200	200	400	400	

INTRODUCTION

Main aim of the course for the students is to enhance the design detailing skills , and to built design control in large interior spaces.

GUIDELINES

Physical study of the space , collecting the actual data and its analysis, 3d Models.

CONTENT:

1. HOTELS

Hotels , five star , seven star hotel interiors , analysis, design considerations, planning and services, aesthetics

Different types of functional areas rooms, suits, banquet halls , conference rooms , restaurants, bars , gym, game zone spaces.

Mechanical and electrical service standards. Contemporary and other theme based interiors.

2. PERFORMING ART SPACES

Theaters, Auditoriums , convention centers, performing art spaces.

Standards , stage , green areas, seating arrangement. Acoustical , electrical , mechanical services.

Wall paneling , furniture , projection room, floor , false ceiling details etc.

REFERENCE BOOKS

1. Designs for 20th century Interiors – Fiona Leolie, VH Publications, London.
2. Interior Design; The New Freedom, Barbara LecDiamonstein, Rizzoli International Publications, New York, 1982.

SUSTAINABLE MATERIALS AND TECHNOLOGIES IN INTERIORS

SR. NO.	COURSE CODE	COURSE TYPOLOGY	NAME OF THE COURSE	L	T	S	CREDIT	EVALUATION									TOTAL MARKS	EXAM DURATION HRS
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2	BDES 602	STUDIO	SUSTAINABLE MATERIALS AND TECHNOLOGIES IN INTERIORS	-	-	6	6	0	0	0	0	0	0	100	100	200	200	

INTRODUCTION

There is growing recognition within the sustainability movement that to be truly effective, a green facility must do more than effectively use natural resources. These facilities need to nurture the health, prosperity and general well being of the inhabitants of its interior spaces.

CONTENT:

1. INTRODUCTION TO SUSTAINABLE INTERIORS
2. PRINCIPLES OF SUSTAINABLE INTERIOR DESIGN
3. GREEN INTERIORS, MATERIALS AND TECHNOLOGIES
4. INDOOR ENVIRONMENT QUALITY (IEQ) AND ITS ELEMENTS

MATERIALS

SUSTAINABLE INTERIOR MATERIALS

Interior eco finishes like-

Eco-furniture, reclaimed timber wood, eco palm wood, eco bamboo, lyptus wood, eco cork, formaldehyde free fiberboard & FSC(Forest Stewardship Council)certified fiberboard ,eco wheat board, strawboard, eco kirei board (product of stalks of the sorghum plant), rubber wood ETC.

REFERENCE BOOKS

1. Sustainability in Interior Design, By Sian Moxon
2. Sustainable Design for Interior Environments Second Edition , Susan M. Winchip
3. Environmentally Responsible Design: Green and Sustainable Design for Interior Designers illustrated edition Edition (Jones [dr. Louise])
4. Sustainable Residential Interiors (Kari Foster Annette Stelmack Associates III Stelmack Foster)
5. Designing Sustainable Residential and Commercial Interiors: Applying Concepts and Practices (Lisa M. Tucker)

TEXTILE DESIGN AND WORKSHOP

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 603	STUDIO	TEXTILE DESIGN AND WORKSHOP	-	-	4	4	0	0	0	0	0	0	50	50	100	100	

INTRODUCTION

Textile products plays an important role in Interiors, aim of the course is to expose students with its application and maintenance part

GUIDELINES

Workshops, hands on exercises should be used as a the tool for the subject.

CONTENT

1. INTRODUCTION TO FABRICS AND ITS ELEMENTS

Fabric, yarn and fiber structure, Fabric structure- woven- warp, weft, selvedge ,knitted- course, non-woven, Fabric types and classification - woven, including plain, twill, satin, Jacquard, crepe and pile weaves, knitted- including single knit, double knit, tricot knit, pile knit, lace and net ,non-woven-including felts webs and films, identification and properties of fabrics, yarns and fibers.

2. FURNISHINGS

Wall paneling, floor coverings, furniture , curtain construction , rugs and carpets , type of selection , flexibility for use, care and maintenance etc

3. APPLICATION IN INTERIORS

Application of textile products in Interiors , furnishings, finishes , textile arts , natural materials.

4. COLOUR APPLICATIONS

Process of applying colors on fabrics , traditional and modern methods , tie and dye printing , batik printing , block printing Hand block printing. Perrotine printing. Engraved copperplate printing. Roller, cylinder, or machine printing. Stencil printing. Screen printing. Digital textile printing. Discharge Printing.

5. OTHER NATURAL MATERIALS – JUTE , LEATHER etc

REFERENCE BOOKS

1. Inside today's home, Faulkner, R. and Faulkner 1987, Rinehart Winston, New York
2. Interior Design & Decoration, Sherril Whiton, Prentice Hall
3. Introduction to home furnishings, Stepat, D.D, 1991, The macmillan company, New York.
4. The themes and Hudson manual of textile printing , Storey joyce , 1992, London
5. Colour in interior Design John, F.P, 1997, McGraw Hill Company

ENVIRONMENTAL SCIENCES (CLIMATOLOGY AND ACOUSTICS)

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4	BDES 604	THEORY	ENVIRONMENTAL SCIENCES (CLIMATOLOGY AND ACOUSTICS)	1	1	-	2	10	10	10	40	50	100	0	0	0	100	3

INTRODUCTION

The course imparts the basic knowledge of environmental sciences and human comfort.

CONTENT

1. PRINCIPALS OF ENVIRONMENTAL SCIENCES

- Understanding Elements of Climate, Global Patterns and Classification of regions, Micro Climate and Thermal comfort factors, Concept of Bioclimatic chart, Effective Temperature and the applications.
- Thermal Quantities, Heat exchange of buildings
- Ventilation and air movement around buildings, design of opening and shading devices.
- Understanding use & application of materials in different climates
- Energy Efficient Rating Systems and its applications in Interior Design

2. INTRODUCTION TO ACOUSTICS

Definition, Theory of sound generation, Terms related to acoustics , transmission – reception of sound — sound waves, frequency, intensity, wavelength – measurement of sound.

Characteristics of speech – Making of sound – Human ear characteristics – Behavior of sound in enclosed

space Reverberation, RT, Optimum reverberation, simple exercise using Sabine’s formula.

3. ACOUSTICS AND NOISE CONTROL

Sound absorption, absorption co-efficient and their measurements – sound amplification and sound reinforcement. sound absorbing materials – sound insulation – materials .

Noise control – effect on human behavior, noise control materials and techniques.

4. APPLICATION IN BUILDINGS

Detailing out the designing of Rooms, lecture halls, broadcasting studio, recording studio. auditorium , theatres.

REFERENCE BOOKS

1. Peter Templeton & Saunders – Detailing for architectural acoustics – Architectural press, 1994.
2. Koenigsberger, O.H. and Others. Manual of Tropical Housing and Building. Orient Longman, Chennai, 2003.
3. Olgay and Olgay. Solar Control and Shading Devices.

QUANTITIES ESTIMATION AND SPECIFICATION

SR. NO.	COURSE CODE	COURSE TYPOLOGY	NAME OF THE COURSE	L	T	S	CREDIT	EVALUATION								TOTAL MARKS	EXAM DURATION HRS	
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5	BDES 605	THEORY	QUANTITIES ESTIMATION AND SPECIFICATION	1	1	-	2	10	10	10	40	50	100	0	0	0	100	3

INTRODUCTION

The subject is intended to make students aware about the financial aspects of the projects.

GUIDELINES

Basic Theory knowledge should be given with the help of Numeric problems to detail out the estimate of the projects.

1. INTRODUCTION TO ESTIMATION

definition, purpose, types of estimate, and procedure for Estimating the cost of work (project or any furniture, product etc)

2. METHOD OF RATE ANALYSIS

Rate Analysis – definition, method of preparation, quantity & labor estimate for woodwork, steelwork, Aluminum work, glass & its rate for different, thickness & sections, finishing .

3. DETAILED ESTIMATE

Detailed estimate preparation , methodology of preparation, abstract of Estimate, labor charges, bill of quantities, different methods of estimate for interior design works, methods of measurement of works.

4. COSTING OF ACCESSORIES

Electrical fitting , Paites and varnishes, Sanitary and Plumbing , paneling and partitions etc.

5. INTRODUCTION TO SPECIFICATION

Specification – Definition, purpose, procedure for writing specification for the purpose of calling tenders, types of specification. Specification for different item related to interior design project

REFERENCE BOOKS

1. M. Chakraborti, .Estimation, Costing, Specification and Valuation in Civil engineering.
2. Dutta, Estimating and Costing, S. Dutta and Co., Lucknow 1983

ELECTIVE - II

SR. NO.	COURSE CODE	COURSE TYPOLOGY	NAME OF THE COURSE	L	T	S	CREDIT	EVALUATION								TOTAL MARKS	EXAM DURATION HRS	
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								MST	MST	AVG MST	SS	ESUE		IA	EV			
6	BDES 606	STUDIO	ELECTIVE - II	-	-	3	3	0	0	0	0	0	0	100	0	100	100	

INTRODUCTION

The course is based on the advanced/alternate technologies and possibilities in contemporary interiors.

GUIDELINES

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

LIST OF ELECTIVES

BDES 606.1	ADVANCED MATERIALS AND TECHNOLOGIES
BDES 606.2	ADVANCED FURNITURE DESIGNS
BDES 606.3	ADAPTIVE REUSE AND RECYCLING (STEEL, WOOD, GLASS, PLASTIC, WASTE WATER ETC)

BDES 606.1	ADVANCED MATERIALS AND TECHNOLOGIES
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CONTENTS

Advanced materials and techniques significantly increase the levels of functionality, and are an inspirational key for the 21st-century competitive advanced architectural and interior design.

Advanced materials and technologies based problems in designing and detailing of interiors, architecture and cabinetry. Exploration and production of interior, mechanical (service oriented) drawings and construction documents. Study of building codes and life safety issues.

BDES 606.2	ADVANCED FURNITURE DESIGNS
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CONTENTS

Develop design concepts that successfully combine functional and aesthetic perspectives into a three dimensional design Enhance the ability to design and fabricate 3 dimensional scale models of furniture designs using various tools and fabrication techniques available

.To develop the skill necessary to design and build full scale constructions using both digital and hand manufacturing.

Techniques of craftsmanship through the study and presentation of precedent works, both historical and contemporary.

BDES 606.3	ADAPTIVE REUSE AND RECYCLING (STEEL , WOOD , GLASS, PLASTIC , WASTE WATER ETC)
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CONTENTS

NEED FOR ADAPTIVE REUSE Recycling of materials such as steel , wood , glass , plastic etc. identifying the other possible materials and technologies, study of need and importance of recycling. Recycling of waste water , sullage and sewage , techniques of water purification , treatment plant for sewage , green rating of buildings – criteria for LEED rating etc .

DISSERTATION

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7	BDES 607	STUDIO	DISSERTATION	-	-	4	4	0	0	0	0	0	0	75	75	150	150	

INTRODUCTION

- Understanding methodological approach to carry out a research based programme for any interior based design project

CONTENT:

Methodology of research , nature of research , various Stages of research, design and research methodology
 Techniques of data collection in different stages , research reporting techniques , structure of a report , Writing skills, presentation skills
 Standards of Use of primary and secondary references, bibliography, notation, cross references etc
 Nature of an undergraduate thesis, its structure and other requirements

SEMESTER TOUR PROJECT

SR. NO.	COURSE CODE	COURSE TYPOLOGY	NAME OF THE COURSE	L	T	S	CREDIT	EVALUATION									TOTAL MARKS	EXAM DURATION HRS
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8	BDES 608	SEMINAR	SEMESTER TOUR PROJECT	-	-	1	1	0	0	0	0	0	0	50	0	50	50	

INTRODUCTION

Semester Break Tours will be conducted in winter semester vacations, documentation of tour will help student to understand various styles and great designer's work of different regions.

CONTENT

- A tour report of A-3 size sheets with proper sketches, photographs, and theory documentation of the topic.
- Videos or any other supporting documentation can also be a part of submission as per the requirement.