

MATS UNIVERSITY, Regulation, Scheme And Syllabi

B.Sc. INTERIOR DESIGNING & DECORATION



MATS UNIVERSITY
SCHOOL OF FASHION DESIGNING
&
TECHNOLOGY
PROGRAMME NAME
BACHELOR OF SCIENCE
IN
INTERIOR DESIGNING & DECORATION
PROGRAMME CODE 0501ID
REGULATIONS

SCHEMES OF STUDY AND SYLLABI

EFFECTIVE FROM THE ACADEMIC YEAR 2023

MATS Regulations and Policies

B.Sc. INTERIOR DESIGNING & DECORATION

Introduction:

This program emphasizes the student to pursue a professional career with a sound foundation in critical thinking , analysing and solving design problems with acumen , communication skills , managerial skills so that they could interact with architects , designers and the clients with confidence.

1. Scope and Content

- 1.1 The Regulations documented here are applicable for Degree- Interior Designing programme, offered by the University.
- 1.2 The applicability of the Regulations must be understood in the context of the given Scheme of Study and Syllabus of the programme.
- 1.3 The Regulations given here are in addition to the rules and regulations notified at the time of admission.
- 1.4 The authorities of University may modify, add, delete, expand or substantiate any part of the Regulations and syllabi, at any time.

2. Course Content

The programme shall be for duration of VIII semesters, spread out in four years honours. Each semester of the programme shall consist of either all or some of the following components:

- a) **Major Subjects- Disciplinary & Interdisciplinary**
- b) **Minor Subjects- Disciplinary & Interdisciplinary**
- c) **Vocational Studies**
- d) **Internships/Field Projects**

3. Eligibility for Admission and Mode of Selection

- 3.1 The minimum qualification required to be eligible for admission is a pass in the HSC or 10+2 examination of a Board of a State Government, or a course recognized as equivalent thereto by the University, desirably with the relevant or related subjects as one of the subjects of study.
- 3.2 The method of selection for the course shall normally by means of a Personal interview. However, the admission might also by means of an entrance test.

4. Attendance and Examination

A student is eligible to appear for the term-end examinations, only if he/she has put in a minimum of 75% attendance in each subject individually.

5. Assessment and Examination

5.1 Assessment of Project Work

The project work will carry 50/100/200 marks (maximum). Of this, 75% marks are for the study/report and 25% marks will be awarded for performance in the viva-voce examination.

5.2 Eligibility to Appear for the Term-End Exam

Students, who have put in a minimum of 75% attendance in each subject, shall be eligible to appear for the Term-end examination.

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6. Maximum period for the complement of the Programme

The maximum period for the completion of the programme shall be Six years from the date of joining the programme.

7. General Guidelines

7.1 Academic Integrity and Ethics

- a) Students who have committed an act of academic dishonesty will be deemed to have failed to meet a basic requirement of satisfactory academic performance. Thus, academic dishonesty is not only a basis for disciplinary action but also is relevant to the evaluation of student's level of performance and progress.
- b) Where there has been violation of the basic ethos and principles of academic integrity and ethics, the Director/Board of Examiners/Course coordinator may use their discretion in terms of disciplinary action to be taken.
- c) Academic dishonesty includes, but is not necessarily limited, to the following:
 - I. Cheating or knowingly assisting another student in committing a act of cheating;
 - II. Unauthorized possession of examination materials, destruction or hiding of relevant materials;
 - III. Act of plagiarism;
 - IV. Unauthorized changing of marks or marking on examination records.

7.2 Attendance

- a) Student are required to attend and participate in all scheduled class sessions, guest lecturer, workshops, outbound learning programs and club/ forum activities of both academic and non-academic nature.
- b) Students may be dropped from the programs due to excessive and non-intimated absences.
- c) Students must notify the program coordinator in writing, the reasons for absence, if any, from class sessions, activities and assessment components.
- d) On notification of absences (including anticipated absences) , the Director/ Programmer coordinator would determine whether the absences could be rectified or whether it is possible to satisfactorily complete the subject with the number of identified absences.

7.3 General

- a) The students are expected to spend a considerable amount of time in research, reading and practice.
- b) All students are expected to develop and maintain a positive profession attitude and approach throughout the Programme and in conduct of all other activities.
- c) Attendance alone is not sufficient. Students are expected to participate, to help the class learn and understand the topics under consideration.
- d) Food and drinks are not permitted in the classroom / conference hall.
- e) All students are expected to dress as per stipulated dress code.

7.4 Passing Criteria

- Semester/cumulative grade point average SGPA/CGPA.
- The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a students in all courses taken by a student and the sum of the number of credits of all the courses undergone by a student ,i.e.

$$SGPA (Si) = \sum(Ci \times Gi) / \sum C1$$

Where Ci is the number of credits of the ith course &Gi is the grade point scored by the student in the ith course.

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- The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme i.e

$$CGPA (S_i) = \frac{\sum (C_i \times G_i)}{\sum C_i}$$

Where S_i is the SGPA of the i th semester & C_i is the total number of credits in that semester.

Marks Secured	Grade Point	Letter Grade
80 and above	10	Outstanding(O)
70 and above but below 80	9	Excellent (A+)
60 and above but below 70	8	Very Good (A)
55 and above but below 60	7	Good (B+)
50 and above but below 55	6	Above Average (B)
45 and above but below 50	5	Average (C)
40 and above but below 45	4	Pass(P)
Below 40	0	Fail (F)
	0	Absent (AB)

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PROGRAM OUTCOME	
P01	Integrate knowledge, skill and attitude that will sustain an environment of learning and creativity with problem identification & solution in interior.
P02	Develop and integrate latest trends & materials in interior design & product design
P03	Understand the design, technology and techniques to design spaces effectively with graphical representation
P04	Understand building and safety codes, principles and practices for environmental and sustainable interior design
P05	Develop an understanding of various tools, techniques and software through visual display.
P06	Apply critical and contextual approaches across wide variety of subject matter
P07	Develop logical thinking to comprehend key facts leading to formulation of the solution process.
P08	Engage a process of research and design for holistic contribution to the profession.& Develop self-confidence and awareness of general issues prevailing in the society
P09	An ability to understand the market trends, client needs, project potentials and work with an inter disciplinary team
P010	An ability to create human responsive spaces and ensure project execution.
P0 11	The application of computer in the field of interior design is also made aware to the students and makes them understand various office documents through software.

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Value Added Courses

S.NO.	PROGRAMME NAME	SEMESTER	VALUE ADDED COURSE	CREDITS
1	BSc.IDD	I	Online Google Tools/Murals	2
2	BSc.IDD	II	Resin Art	2
3	BSc.IDD	III	Laser Cutting	2
4	BSc.IDD	IV	Personality Development	2
5	BSc.IDD	V	Archicad	2
6	BSc.IDD	VI	Indesign	2
Total				12

Vision

The vision is to create a truly global awareness that provides growth, opportunities for students in the field of designing, as well as achieving the goal of becoming the leading Fashion University across India.

Mission

- To provide challenging, creative and effective career.
- Seek to provide unique learning experience.
- To make them designers and entrepreneur.
- Specially tailored program for those student who have an interest in designing related field.

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FDT SEM I													
TYP E	SN	Categ ory	SUBJECT NAME	SUBJE CT CODE	CRED IT	HR / W K	L/ T	A / P R E	P/ P R OJ	TERM END EXAM	INTER NAL MARKS	MIN. PASS MARKS	TOT AL MAR KS
MAJOR	1.	Theo ry	Basic Design	IDD 101	2	2	1		1	35	15	20	50
	2.	Theo ry	Interior Designing Fundamen tals	IDD 102	2	4	4	2		35	15	20	50
	3.	Lab	Basic Design	IDD 103	2	2	2			35	15	20	50
MINOR	4.	Pro	Building Material & Market Survey	IDD 104	4	4	4	2		70	30	40	100
	5.	Theo ry	Architectu ral Drawing	IDD 105	2	2		2		35	15	20	50
	6.	Lab	Architectu ral Drawing	IDD 106	2	4	2			35	15	20	50
	7.	Theo ry	Communic ative English	IDD 107	2	2	2			35	15	20	50
	8.	Lab	Introducti on to Computer	IDD 108	2	4		1	2	35	15	20	50
VOC ATI ONA L	9.	Lab	Product Workshop- I	IDD 109	2	4		1	1	35	15	20	50
Total					20	28	15	8	4	350	150	200	500

Abbreviations:

HR/WK- Hours/Week

L/T- Lecture/Tutorials

A/PRE- Assignment/Presentation

P/PROJ- Practical/ Project

FP- Field Project

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FDT SEM II													
TYP E	SN	Categ ory	SUBJECT NAME	SUBJE CT CODE	CRED IT	HR / W K	L/ T	A / P R E	P/ PR OJ	TER M END EXAM	INTER NAL MARKS	MIN. PASS MARKS	TOT AL MAR KS
MAJOR	1.	Theo ry	Interior Design Studio & Market Survey - I	IDD 201	2	2	2			35	15	20	50
	2.	Lab	Interior Design Studio & Market Survey - I	IDD 202	4	8		2	6	70	30	40	100
	3.	Lab	Furniture Design & Joinery Details & Anthropometrics	IDD 203	2	4		1	3	35	15	20	50
MINOR	4.	Theo ry	Building Construction & Site Visit - I	IDD 204	2	4		1	3	35	15	20	50
	5.	Theo ry	History of Design	IDD 205	2	4		1	3	35	15	20	50
	6.	Lab	Building Construction & Site Visit - I	IDD 206	2	2	1		1	35	15	20	50
	7.	Theo ry	Environmental Studies	IDD 207	2	2	2			35	15	20	50
VOC ATI ONA L	8.	Lab	AutoCAD 2D, 3D	IDD 208	4	4		2	4	35	15	20	50
	9.	Field Proje ct	Product Workshop-II (Internship)	IDD 209	2	4		2	4	35	15	20	50
Total					22	34	5	9	24	350	150	200	500

Abbreviations:

HR/WK- Hours/Week

L/T- Lecture/Tutorials

A/PRE- Assignment/Presentation

P/PROJ- Practical/ Project

FP- Field Project

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FDT SEM III													
TYPE	SN	Categ ory	SUBJECT NAME	SUBJECT CODE	CRED IT	HR / WK	L/ T	A/ P R E	P/ P R O J	TER M END EXA M	INTER NAL MARKS	MIN. PASS MAR KS	TOT AL MAR KS
MAJOR	1.	Theo ry	Interior Design Studio & Market Survey - II	IDD 301	2	2		2	2	35	15	20	50
	2.	Theo ry	Estimation & Costing	IDD 302	4	4	4			70	30	40	100
	3.	Lab	Interior Design Studio & Market Survey - II	IDD 303	4	8	2			70	30	40	100
	4.	Lab	Bathroom Designing	IDD 304	2	4		1	1	35	15	20	50
MINOR	5.	Pro	Services & Market Survey - I	IDD 305	4	4	4			70	30	40	100
	6.	Theo ry	Building Construction & Site Visit - II	IDD 306	2	4		1	1	35	15	20	50
	7.	Lab	Building Construction & Site Visit - II	IDD 307	2	2	1		1	35	15	20	50
VOC A TION AL	8.	Lab	Interior Photography	IDD 308	2	4		2	4	35	15	20	50
Total					22	32	11	6	9	385	165	220	550

Abbreviations:

HR/WK- Hours/Week

L/T- Lecture/Tutorials

A/PRE- Assignment/Presentation

P/PROJ- Practical/ Project

FP- Field Project

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FDT SEM IV													
TYP E	SN	Categ ory	SUBJECT NAME	SUBJEC T CODE	CREDI T	HR / W K	L/T	A / P R E	P/ PR OJ	TERM END EXAM	INTER NAL MARKS	MIN. PASS MARK S	TOTA L MARK S
MAJ OR	1.	Theor y	Interior Design Studio & Market Survey - III	IDD 401	2	2	2			35	15	20	50
	2.	Lab	Interior Design Studio & Market Survey - III	IDD 402	4	8		2	2	70	30	40	100
	3.	Theor y	Vastu	IDD 403	2	2	4			35	15	20	50
M I N O R	4.	Theor y	Services & Market Survey - II	IDD 404	2	3		2	2	35	15	20	50
	5.	Lab	Exhibition & Model Making	IDD 405	2	4		1	3	35	15	20	50
	6.	Lab	Autodesk 3D Max	IDD 406	2	4		1	3	35	15	20	50
	7.	Theor y	Foreign Language	IDD 407	2	2	2			35	15	20	50
VOC	8.	Lab	Product Workshop- II	IDD 408	2	4		2	4	35	15	20	50
FP	9.		Internship	IDD 409	2	3		1	1	35	15	20	50
Total					20	32	8	9	15	350	150	200	500

Abbreviations:

HR/WK- Hours/Week

L/T- Lecture/Tutorials

A/PRE- Assignment/Presentation

P/PROJ- Practical/ Project

FP- Field Project

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FDT SEM V													
T Y P E	SN	Categor y	SUBJECT NAME	SUBJECT CODE	CRE DIT	HR/ WK	L/ T	A/ PRE	P/ PROJ	TERM END EXAM	INTER NAL MARKS	MIN. PASS MARKS	TOTAL MARKS
M A J O R	1.		Retail Design & Market Survey	IDD 501	2	2	1		1	35	15	20	50
	2.		Professio nal Practices	IDD 502	4	4	4			70	30	40	100
	3.		Retail Design & Market Survey	IDD 503	2	4		1	3	35	15	20	50
P R O	4.		Dissertati on Report & Viva Voce	IDD 504	4	4		1	3	70	30	40	100
M I N O R	1.	ELECTI VE	Landscap e Designing & Exhibition	IDD 505	4	4	2		4	70	30	40	100
	2.		3D Visualizatio n	IDD 506									
	1.	ELECTI VE	Green Building Technology	IDD 507	4	4	4	2		70	30	40	100
	2.		Ergonomi cs	IDD 508									
Total					20	22	11	4	11	350	150	200	500

Abbreviations:

HR/WK- Hours/Week

L/T- Lecture/Tutorials

A/PRE- Assignment/Presentation

P/PROJ- Practical/ Project

FP- Field Project

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FDT SEM VI													
T Y P E	SN	Ca te go ry	SUBJECT NAME	SUBJECT CODE	CREDIT	HR/ WK	L/T	A / P R E	P/ P R O J	TER M END EXA M	INTE RNA L MAR KS	MIN. PASS MAR KS	TOTAL MARK S
M A J O R	1.	Pr o	Advance Professional Project Management	IDD 601	4	4	4		4	70	30	40	100
	2.		Portfolio Presentation Report Viva Voce	IDD 602	8	8	2		8	150	50	80	200
M I N O R	1.	EL EC	Lightning & Exhibition	IDD 603	4	4	4		4	70	30	40	100
	2.	TI V E	Acoustics & Exhibition	IDD 604									
I N T E R N S H I P	1.	EL EC TI V E	Internship - (Commercial)	IDD 605	8					50 100	50	80	200
	2.		Internship - (Residence)	IDD 606									
Total					24	16	10		16	440	160	240	600

Abbreviations:

HR/WK- Hours/Week

L/T- Lecture/Tutorials

A/PRE- Assignment/Presentation

P/PROJ- Practical/ Project

FP- Field Project

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Course Title	BASIC DESIGN (Theory)	Credits	2
Course Code	IDD 101		
Learning Level	BTL		PO
CO	Course Outline		
C01	To understand the basics of elements and principles of design		PO 1,2
C02	To develop the understanding of shapes in reference to elements and principles		PO 1,2
C03	To understand space making by using solid shapes and creating visual composition		PO 2,3
C04	To develop the vision of color and color wheel in different scenarios		PO 3,4
C05	To develop the meaning of space in reference to color and other elements.		PO 5,6,7

Objective: Visual perception through simple design elements – Line, plane and solid perception of spaces through design elements and organization. Colour workshop – The science of colour – psychology of colours. Colour wheel, its application. Manifestation of colours & perception of colour & form.

Module I

Interiors used in Residential, Commercial and Public places. Qualities of colour – Hue, Intensity, Tone, Tints, Shade. Colour wheel. Primary colours, Secondary Colours, Tertiary Colours. Psychology of Colours. Factors influencing colour scheme. Different types of colour schemes.

Module II

Colour schemes – Monochromatic Colour Scheme, Dichromatic Colour Scheme, Polychromatic Colour Scheme, Analogous Colour Scheme, Neutral Colour Scheme, Contrasting Colour Scheme.

Module III

Colour schemes - Complementary Colour Scheme, Split Complementary Colour Scheme, Triad Colour Scheme, Cool Colour Scheme, Warm Colour Scheme, Creative Colour Scheme. Factors influencing colour scheme.

Module IV

Elements of design – Line & types of lines, Points, Shapes, Size, Direction, Form, colour, Value, Space. Alteration of Elements of Design. Modification and Transformation in the Elements. Composition of Points, Lines, Shapes and Forms. Scale – Natural, Intimate, Monument, Shocked.

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Module V

Principles of design - Background , Emphasis , Balance , Unbalance , Symmetry, Asymmetry , Rhythm/movement ,Pattern, Contrast , Harmony, Monotone , Unity ,Scale and Proportion , conflict, dominance, attention, gradation.

Reference books

1. *Design concept – Jame Mills*
2. *Architecture Form, Space: Francis D K Ching*
3. *Diagram Diaries Peter Eisenman: Resomol Scandinavia Living Design: Elizabeth Gaynor*
4. *Colour Harmony – A guide to creative colour combinations- Bride M.Whelan*
5. *Colour Kaleidoscope, Creating colour harmonies- Axel venn*
6. *Time Saver Standards – Interior Space*

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Course Title	INTERIOR DESIGNING FUNDAMENTALS (Theory)	Credits	2
Course Code	IDD 102		
Learning Level	BTL		PO
CO	Course Outline		
C01	The student shall gain complete knowledge about the rules that an interior designer must follow to create an effective and beautiful design for the clients.		PO 8,9
C02	The rules are taught as <i>the</i> base ground or the foundation of interior designing to make student understand all basic of an interior project.		PO 1
C03	Students Will be able to learn and draft the Furniture measurements and anthropometry etc.		PO 3
C04	Students will learn basics of interior designing and furniture designing.		PO 1,2
C05	Student will gain fundamental knowledge of drafting layouts & measurements		PO 1,3,6

Objective: Basic knowledge of interior designing, interior décor & elements of designing.
Assimilation of resolving design solution of dream room.

Module I

Introduction to Interior Designing, Definition & Principal of Interior Designing, Interior Designing as a Career

Module II

Elements of Designing, Designing Process, Steps involved in Design Process.

Module III

Basic Introduction to furniture Designing

Module IV

Concepts & Themes of Dream Room Design

Module V

Dream Room Project- Plan, Furniture, Materials, finishes.

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Reference Books

1. *Interior Design: Principles & Practice*, M.Pratap Rao, Standard Publication Distributors, Delhi.
2. *Interior Design & Space Planning*, Joseph De Ctitra, Julius Panero Martin Zelnik, McGraw Hill
3. *Interior Design Reference + Specification Book* by Chris Grimley.
4. *The Color Scheme Bible, Inspirational Palettes for Designing Home Interiors* by Anna Starmer.
5. *Becoming an Interior Designer Second Edition* by Christine M. Piotrowski, FASID, IIDA.

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Course Title	BASIC DESIGN (Lab)	Credits	2
Course Code	IDD 103		
Learning Level	BTL		PO
CO	Course Outline		
C01	To gain knowledge on aesthetic and artistic form of art in interiors.		PO 1
C02	Student will gain practical knowledge on basic designing to full-size construction of furniture and interior decoration elements through visualization.		PO 2,3,5
C03	Student will learn to use color scheme efficiently in interiors.		PO 2
C04	Student will understand designing concept and design ideas behind Designer mirror and lamps.		PO 2
C05	Student will learn to implement shapes & forms in combination with colors in various forms of residential and commercial interiors.		PO 1,2

Objective: Visual perception through simple design elements – Line, plane and solid perception of spaces through design elements and organization. Colour workshop – The science of colour – psychology of colours. Colour wheel, its application. Manifestation of colours & perception of colour & form.

Module I

Interiors used in Residential, Commercial and Public places. Its Collection and presenting them in collage form. Visual perception skills, use of different media and techniques, Colour wheel, Primary colours, Secondary Colours, Tertiary Colours .Shade and shading techniques. Rendering techniques and use of colour in interior spaces, Qualities of colour –Tints, Shade

Module II

Colour schemes – Monochromatic Colour Scheme , Dichromatic Colour Scheme , Polychromatic Colour Scheme ,Analogous Colour Scheme , Neutral Colour Scheme , Contrasting Colour Scheme , Complementary Colour Scheme , Split Complementary Colour Scheme , Triad Colour Scheme , Cool Colour Scheme , Warm Colour Scheme , Creative Colour Scheme.

Module III

Composition of Points, Lines, Shapes and Forms. Elements of design – Line & types of lines

Module IV

Principles of design - Background , Emphasis , Balance , Unbalance , Symmetry, Asymmetry , Rhythm/movement, Contrast , Harmony, Monotone , Unity ,Scale and Proportion .

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Module V

Designer clocks, designer mirror frames used in interior spaces.

Reference books

1. *Design concept – Jame Mills*
2. *Architecture Form, Space: Francis D K Ching*
3. *Diagram Diaries Peter Eisenman: Resomol Scandinavia Living Design: Elizabeth Gaynor*
4. *Housing & Urbanisation: Charles Correa*
5. *Colour Harmony – A guide to creative colour combinations- Bride M.Whelan*
6. *Colour Kaleidoscope, Creating colour harmonies- Axel venn*
7. *Designer's guide to colour-Vol 1to 5- James Stockman*
8. *Time Saver Standards – Interior Space*

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Course Title	BUILDING MATERIALS & MARKET SURVEY (Project)	Credits	4
Course Code	IDD 104		
Learning Level	BTL		PO
CO	Course Outline		
CO1	Students shall be made aware about the characteristics and properties of Building Materials used in civil work.	PO 1,2,3	
CO2	Students will develop their skills for identification of suitable construction materials for civil work and projects and ability to select appropriate materials for the interior designing projects.	PO 1,2,9	
CO3	Students will learn to deal with the selection of materials for various projects of constructions such as residential/commercial buildings.	PO 1,2,9,10	
CO4	Students will understand basics of Masonry, Finishing and Form work standards prevailing in market.	PO 1,2,3,8	
CO5	Students will understand the importance of building components and their uses.	PO 1,9	

Objective: Understanding various new materials and updating it in the market and their applications.

Module I

Introduction to building materials Stones-Types of stones, General properties of good stones, Tools use for stone dressing, Types of surfaces finishes, Uses of stones, Qualities of good building stones, Purpose- types of stones to be used, Artificial stones, Points in favour of stone masonry, Marbles-Italian & Indian, Granites- all types, Tiles- vitrified, ceramics tiles and wall & floor tiles. Bricks- Points in favour of brick masonry Types of bricks, Shapes of bricks, Strength of brick masonry, Qualities of good bricks, Testing of bricks, Tools of brick laying, Elevation of brick wall, Various forms of bricks. Clay products lime cement concrete

Module II

Metals –Types of metal, Ferrous metals, Market form of steel, Properties of mild steel, Properties of hard steel, Aluminium, uses of Aluminium in interior design, Alloys, Other types of metals, Metal finishes. Plastics- Introduction, Constituents of plastics, Colouring matter, Lubricants, Catalysts, Classification of plastics, Thermoplastic materials, Properties of mild steel, Properties of plastics, Uses of plastics, Commercial form of plastics.

Module III

Glass – Introduction, Structure of glass, Constituents of glass and their functions Properties of mild steel, Properties of glass, Requirements of commercial glass, Classification of glass, Special type of glass, Role of glass in interior, glazing, Bend glass, Toughened glass, Sandwich glass, Custom designer glass. Hardware

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Module IV

Timber- Forms of timber, Classification of trees ,Soft wood & hard wood, Conversion of timber, Defects in timber, Decay of timber, Seasoning of timber, Difference due to Seasoning , Qualities of Timber , Factors affecting the strength of timber , Requirement of good Preservatives , Types of Preservatives , Methods of Preservation, Ply- types, thickness &uses,Partical boards-Varieties & uses. Floor finishes and Plastering- Introduction about floor finishes, Concrete floor, Terrazzo floor, Tiles, Introduction about plastering, objective of plastering, Procedure of plastering, Stucco plastering, Pointing, and Procedure of pointing Adversives

Module V

Paints – Characteristics of Ideal Paint, Ingredients of oil borne paints, Types of Paints. Guidance in process of painting, Advantages of spray painting. Painting on different surfaces. Defects in painting. Distempering – its properties. Varnishing – Characteristics of Ideal Varnish, its ingredients, types of varnish, Deco paints, PU finishes, Lamination Polish, Different texture paints. Textile & Finishes-Upholstery, curtains, carpets, rugs, drapery and its fixing types, types of venation blinds etc. Interior accessories

Reference books

1. *Time Saver Standards – Building Types*
2. *Building materials & construction : Pratap Rao*
3. *Interior design principles : Pratap Rao*
4. *S. C. Rangwala, Engineering Materials, Character Publishing house, Anand – 388 001, India, 2002.*
5. *S.K. Duggal, Building materials, Oxford and IBH publishing Co, put, Ltd, New Delhi 110001, 1997.D.N. Ghosh : Civil Engineering Drawing*
6. *Building Materials – Gurucharan Singh (Standard Publishers, Delhi)*
7. *Engineering Materials – Surendra Singh (Laxmi Publication)*

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Course Title	ARCHITECTURAL DRAWING (Theory)	Credits	2
Course Code	IDD 105		
Learning Level	BTL		PO
CO	Course Outline		
C01	To Understand and Use traditional drawing tools, such as pencils, pens, and paper to create professional-quality architectural drawings with different measurements.	P05	
C02	Understand and apply the architectural design process, from concept development to construction documentation.	P05	
C03	Communicate design ideas effectively through clear and concise graphical representations.	P03	
C04	To understand detailed learning of different types of projection.	P03	
C05	Students will learn about the different types of views and how to use them in displaying their work.	P05	

Objective: Drawing skills as tools to design thinking, views, visualization, and representation.

Module I: Architectural Drawing

Basic Study- Lines- Different types of Lines, **Composition of Tools:** Use of Instruments, **Letter Writing:** Details about different fonts.

Module II: Scales

Use of different types of scale in Architectural Drawing, Unit Converter, different Measurement of Plans & Furniture.

Module III: Orthographic Projection

Angle Details, Scale Details, Working Drawing & Presentation Drawing, basic Geometrical Details.

Module IV: View

Details of different type of View- Isometric, One Point, two-point, oblique view, Axonometric View.

Module V: Texture

Details of different types of textures used in wall- 2D, 3D. **Murals** - Different types of murals used in residential & commercial.

Reference Book:

1. *Dynamic Color Painting for the Beginner*, Diane Edison, ABRAMS New York
2. *Rendering with pen + ink*, Gill Robert W, Thames &Hidson.
3. *Adventure Water Colors*, Jenny Wheatley & Robin Capon, BATSFORD

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Course Title	ARCHITECTURAL DRAWING (Lab)	Credits	2
Course Code	IDD 106		
Learning Level	BTL		PO
CO	Course Outline		
C01	To Understand and Use traditional drawing tools, such as pencils, pens, and paper to create professional-quality architectural drawings with different measurements.	P05	
C02	Understand and apply the architectural design process, from concept development to construction documentation.	P05	
C03	Communicate design ideas effectively through clear and concise graphical representations.	P03	
C04	To understand detailed learning of different types of projection.	P03	
C05	Students will learn about the different types of views and how to use them in displaying their work.	P05	

Objective: Drawing skills as tools to design thinking, views, visualization, and representation.
Sketching on drawing sheets as per scale.

Module I

Line Sheet, Composition of Tools, Letter Writing.

Module II

Projection of Line 1, Projection of Line 2, Projection of Plane 1, Projection of Plane 2, Projection of inclined lines, Projection of Solid.

Module III

Oblique View, Axonometric View, One Point View, Two point View

Module IV

Isometric View I, Isometric View II, Isometric View III, Isometric View IV, Isometric View V.

Module V

Picture Effect.

Reference Books

1. *Dynamic Color Painting for the Beginner*, Diane Edison, ABRAMS New York
2. *Rendering with pen + ink*, Gill Robert W, Thames &Hidson.
3. *Adventure Water Colors*, Jenny Wheatley & Robin Capon, BATSFORD

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Course Title	COMMUNICATIVE ENGLISH (Theory)	Credits	2
Course Code	IDD 107		
Learning Level	BTL		PO
CO	Course Outline		
CO1	Enhance the communicative competence with focus on syntax and fluency	PO 2,6,7	
CO2	Excel in oral and written medium and prepare them for employability	PO 1,,5	
CO3	To enhance the grammatical competency which helps in communication whether written or oral	PO 6,7	

Objectives:

In this competitive world, one has to be a good communicator to succeed. Our objective is to enable students to be a good communicator in their chosen field. The proposed course structure is designed to meet specific needs of the students of the stream. So that students can:

- Apply communication skills learnt in class in their professional life.*
- Enhance their communication skills through practice.*
- Manage critical situations through effective writing communicative skills learnt in the class.*
- Improve their vocabulary*

To meet our ends, the following practices would be observed:

- A set of exercises in both oral and written communication.*
- Self- managed reading/ writing.*
- Audio and video presentations.*
- Use of print media for explanation of certain topics.*

Module I

- What is Communication (An introduction), The Communication Process (communication cycle)
- Objectives of communication (types), Media of communication (oral, written, audio, audiovisual, face to face)
- Types of communication (Downward, upward, horizontal, grapevine, consensus), Principles of communication.
- Barriers of communication.

Module II

- Body language (facial expressions, gestures)
- Listening and its advantage.
- Punctuation & use of capital letters.
- Kabuliwala by Ravindra Nath Tagor

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Module III

- Writing Skills – Letter Writing, Application, Official Letters.
 - ✓ Basic structures of letters (An introduction to different formats)
 - ✓ Formal & Informal letters
 - ✓ Bio data, resume & Curriculum Vita
- Copy writing

Module IV

- Tenses & adverbs
- All the world's stage (Poem by William Shakespear)
- Adjective & Determiners
- Vocabulary (Antonym, synonyms) & one word substitution.

Module V

- Extempore speech(practical exercises)
- Seminar presentation
- Public speaking
- Reading Skills

Note: - Above tasks would be carried out through certain exercises, to name a few- moviescreening, dissertation on a selected novel, presentations and public speaking.

Text Books

1. *Compiled Version of Functional English to be used as work and text book By- Anjana Rohatgi, & Shilpi Bhattacharya*

Reference Books

1. *Communicative English For Engineers & Professionals, by Nitin Bhatnagar, Mamta Bhatnagar, Pearson Education, 2010*
2. *A Practical English Grammar by- A.J. Thompson & A.V. Martinet*
3. *Intermediate grammar usage & Composition by M. L. Tickoo, A.E. Subramanian, & P.R. Subramanian*

Literature Review

1. *A Love Affair in London- Khushwant Singh*
2. *On Being Remembered- A. G. Gardiner*
3. *On the Rule of Road- A. G. Gardiner*
4. *Shall I compare Thee to a Summers Day- Shakespeare*
5. *Orientation (Wings of Fire)-Arun Tiwari*
6. *Mr. Collins proposes to Elizabeth- Pride & Prejudice (Jane Austen)*
7. *Ode to Nightingale -Keats*

Note – Literature pieces can be changed frequently in order to maintain students' interest in the subject.

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	INTRODUCTION TO COMPUTERS (Lab)	Credits	2
Course Code	IDD 108		
Learning Level	BTL		PO
CO	Course Outline		
C01	To understand the basic components of operating on menu and other tabs		PO 11
C02	To Understand the MS Word and use in office documents		PO 11
C03	To Understand the MS Excel and its use in office documents		PO 11
C04	To present data using power pointing presentation		PO 11
C05	To understand the basics of CorelDraw & Photoshop and create the designs using the software		PO 11

Objective: Students will learn fundamental concepts of computer hardware and software and become familiar with a variety of computer applications, including word-processing, spreadsheets, databases, and multimedia presentations.

Module I- Word Processor

Introduction to word processors. MS Word: opening, creating and saving documents, finding files, previewing documents and their properties, Typing, navigating and selecting in document, Editing and sorting, Checking spelling and grammar, formatting: characters, paragraph, with styles, auto format etc. Changing appearance of your page: margins, page size, page orientation, page breaks etc. Importing graphics and creating drawing objects: inserting, editing and positioning text and graphics, creating, resizing, reshaping and deleting drawing objects. Assembling documents with mail merge, Customizing Microsoft Word

Module II- Spread sheet

Introduction to worksheets- opening, creating, using and saving workbook; working with workbooks and worksheets: managing, arranging and moving around in workbook. Entering data and selecting cells, ranges; editing worksheet data: clear content, format, or comments from cells, finding or replacing data, inserting, copying and moving cells and data, spell checking and correcting, formatting worksheet, using formulas, working with charts, analysing data with a pivot table, performing what-if analysis on worksheet data, validating cell entries, automating tasks: record, run, edit, and stop a macro, Customizing Microsoft Excel.

Module III - Techniques in presentation

Microsoft PowerPoint: opening, creating and saving presentations, working in different views, working with slides, adding and formatting text, formatting paragraphs, making notes pages and handouts, working with objects and clip arts, working with equations, tables and charts, designing electronic slide show, adding animations, sound, voice narration and movies to your

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slides, setting timing and transitions, running and controlling electronic slide show, Customizing Microsoft PowerPoint.

Module IV

Introduction to Software, Implementation of Corel Draw in Interior designing

Module V

Introduction to Software, Implementation of Photoshop in Interior designing

Reference books:

1. *Microsoft Office 2000 by O'lear series, Tata Mcgraw Hill*
2. *Mastering computers – Wright G.G.L.McMilan& Co.*
3. *Microsoft Windows 2000 – Microsoft Press*
4. *The Corel Draw – wow lines Dayton*
5. *Photoshop element: Dake McClelland*

B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	PRODUCT WORKSHOP (Lab)	Credits	2
Course Code	IDD 109		
Learning Level	BTL		PO
CO	Course Outline		
C01	Student learnt hands-on experimentation, exploration of materials, model making and prototyping with various materials.		P02
C02	To bring their projects to life, from model making to full-size construction of products and interior decoration elements.		P02
C03	To understand the value and process of product design		P02
C04	To explore various methods in problem identification		P01
C05	To understand design thinking for concepts of product designing		PO 1,2

Objective: Gain complete practical knowledge and Identify future aspects in Interior design and decoration for furniture items and product designing.

Module I: Introduction

Introduction to product designing. Types of products used in Interior designing and decoration – Interior & Exterior both.

Module II: Material exploration

Introduction to types of material used for product designing. Learning the Tools and Techniques used with all materials such as bamboo, wood, mdf, acrylic etc. Identify and explore various techniques and limitations with all material and its joineries used in Interiors.

Module III: Hands-on-activity

Material explorations with all material through hands on practice.

Module IV: Model practice –Digital design

Product designing through software (autocad). Dimensions and working of the product. Placement and usage of the product with the help of 3D view.

Module V: Model practice - Prototype

Integrating Digital design and hands on experience to design and create final product of selected material.

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	INTERIOR DESIGN STUDIO & MARKET SURVEY – I (Theory)	Credits	2
Course Code	IDD 201		
Learning Level	BTL		PO
CO	Course Outline		
C01	Student will learn to apply basics principles of space planning in interior designing.		P03
C02	Student will learn Basic principles and elements of Design of a residential place & method of how to develop design from the scratch.		P03
C03	Student will learn about standard dimension of a residential planning in interior design through graphical representation		P03
C04	Student will understand & learn Selecting /listing material for the interior design work.		PO 2
C05	They will develop designing development and Select the products for given interior design work; They will be good at presenting their designed project to the clients		P02,3,9

Objective: Assimilation of resolving design solution.

Module I

Design analysis -research and programming with market survey.

Module II

Concept development with market survey.

Module III

Design development with market survey.

Module IV

Board layouts with market survey.

Module V

Presentation of the design project with market survey.

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Reference books

1. *Time Saver Standards – Building Types*
2. *Minimalist Lofts : Watson Guphill*
3. *Interior Design : John F Pile*
4. *Big Ideas Xs Small Buildings : Richard Son Dietrich*
5. *Julius Panero, Martin Zelnik, Human Dimension and Interior Space, Whitney Library of Design, 1975*
6. *Joseph De Chiara, Julius Panero, Martin Zelnik, Time Saver Standards for Interior Design and Space Planning, McGraw Hill 2001.*

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Course Title	INTERIOR DESIGN STUDIO & MARKET SURVEY – I (Lab)	Credits	4
Course Code	IDD 202		
Learning Level	BTL		PO
CO	Course Outline		
C01	Student will learn to apply principles of design in residential design work and develop basic elements of design.	P03	
C02	Student will develop the residential building design work using different building material	P03	
C03	Student will develop their skills on drafting plans of a residential in detailed. They will have knowledge about kitchen and living rooms in detailed as per latest trends.	P03	
C04	Student will understand details about 3d and 2d views & selecting color and texture to suit the visual effects, psychology and point of application in interiors.	P02	
C05	Students will learn to sketch the design considering basic elements, principles and visual effects which includes Site visits, case studies which shall help create best of planning for the interior projects.	P02,3,9	

Objective: Drawing skills as tools to design thinking, views, visualization, and representation.
Sketching on drawing sheets as per scale of residence.

Module I

Building drawing of residences 3bhk, 4bhk & 5bhk Presentation Plan, Using of different materials like marble, granite, tiles, Elevation , Isometric view.

Module II

Living Room – Presentation Plan, Final plan, Sectional Elevations, Furniture details, Isometric Views.

Module III

Kitchen – Dining - Presentation Plan, Final plan, Sectional Elevations, Furniture details, Isometric Views.

Module IV

Master Bed Room - Presentation Plan, Final plan, Sectional Elevations, Furniture details, Isometric Views.

Module V

Children Bed Room - Presentation Plan, Final plan, Sectional Elevations, Furniture details, Isometric Views.

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Reference books:

1. *Time Saver Standards – Building Types*
2. *Minimalist Lofts : Watson Guptill*
3. *Interior Design : John F Pile*
4. *Big Ideas Xs Small Buildings : Richard Son Dietrich*
5. *Julius Panero, Martin Zelnik, Human Dimension and Interior Space, Whitney Library of Design, 1975*
6. *Joseph De Chiara, Julius Panero, Martin Zelnik, Time Saver Standards for Interior Design and Space Planning, McGraw Hill 2001.*

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	FURNITURE DESIGN & JOINERY DETAILS & ANTHROPOMETRICS (Lab)	Credits	2
Course Code	IDD 203		
Learning Level	BTL		PO
CO	Course Outline		
C01	Student will learn & understand the relationship of furniture to human dimensions, survey of various modular system and their joinery details available in market.	PO8,9	
C02	Students will learn joinery details of wood and metal furniture as per latest trends	PO 2	
C03	Students will learn anthropometrics and techniques used behind designing furniture & Can produce/make a furniture or interior design product.	PO2,5	
C04	Student will gain the knowledge of the tools and materials which are used in furniture production.	PO 8,9	
C05	Student will understand and can use simple craft techniques used in furniture production prevailing in market.	PO 8	

Objective: System in furniture design, its relationship to human dimensions, survey of various modular systems available for functions in market.

Module I

Anthropometry basic Human Dimension-I, II, III, IV, V & VI.

Module II

Joints & Its different types, Joinery Details, Credenza, Dining Table & Chair & other furniture's using different materials Sofa, study table, LCD unit - Plan, Front Elevation, Side Elevation, Sectional Elevations, Joinery Details and Isometric View,

Module III

17th -18th century furniture I & II - Plan, Front Elevation, Side Elevations, Sectional Elevation, Joinery Details and Isometric View.

Module IV

Window treatment, window curtains, door curtains

Module V

Basic Material knowledge of bamboo, cane, metal, glass and type of furniture which can be made by using these materials.

Reference books

1. Elements & Total concept of urban street furniture: Garrett Elkbo
2. Modern Furniture Classics
3. Time Saver Standards – Building Types

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	BUILDING CONSTRUCTION & SITE VISIT- I (Theory)	Credits	2
Course Code	IDD 204		
Learning Level	BTL		PO
CO	Course Outline		
C01	This subject will enhance knowledge and gain exposure to build forms (Architecture) through building construction technology and provide Understanding about various new systems of construction which will help them in practical field through building construction logic and techniques.		PO 2,3
C02	The student will able to explain properties of building elements and prepare the construction drawings through conceptual and contextual approach.		PO 6
C03	The student will able to explain principles of construction in mass buildings and use of the technical knowledge in project drawings.		P03
C04	Student will gain theoretical as well as practical knowledge of building construction & techniques.		P03
C05	Student shall be able to implement his/her knowledge on foundations, masonry, staircases to ease project execution		PO 10

Objective: *Emphasis: Exposure to build forms (Architecture) through building construction technology. Understanding various new systems of construction. Aluminium composite panel ACP*

Module I

Important building components, Foundations.

Module II

Stone masonry, brick masonry

Module III

Partitions

Module IV

Arches

Module V

Lintels, stairs

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B.Sc. INTERIOR DESIGNING & DECORATION

Reference books

1. *Time Saver Standards – Building Types*
2. *Construction Technology – Vol 1-4*
3. *Balconies Exterior & Garage Doors*
4. *Building Materials & Construction*
5. *Building Construction – B.C. Punmia (Laxmi Publication Pvt. Ltd.)*
6. *Building Construction – Sushil Kumar (Standard Publication Distributors)*
7. *Building Construction – S. C. Rangwala (Charotar Publishing House, Anand, Gujarat)*
8. *Building Construction – Gurucharan Singh (Standard Publication Distributors)*

B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	HISTORY OF DESIGN (Theory)	Credits	2
Course Code	IDD 205		
Learning Level	BTL		PO
CO	Course Outline		
C01	To understand the evolution of art in interiors during the prehistoric period through research and documentation.	PO 8	
C02	To understand the different traditional contemporary art form with different tools and techniques	PO 3	
C03	To explore & understand the different elements and accessories in historic interiors through research and graphical representation.	PO 3,8	
C04	To understand the spatial scale in Buddhist, Islamic and Hindu art forms enhancing logical thinking	PO7	
C05	To explore & understand the holistic contribution the various art forms of world history.	PO 8	

Objective: *How an investigation in the historical imperatives in relation with design can be turned into an aid to the design process. Typological rather than periodic or stylistic approach to history of design.*

Module I

Chinese civilization, History of Chinese antique furniture

Module II

Egyptian civilization, Egyptian furniture

Module III

Classical period – Greek period, Roman Period

Module IV

Mughal Architecture – Akbar, Jahangir, Shahjahan

Module V

Biography of famous Interior Designers

Reference books

1. *History of Architecture : Sir Banister Fletchers*
2. *The history of Architecture in India : Christopher Tadgell*
3. *Sir Banister Fletcher, A History of Architecture, University of London, The Antholone Press, 1996.*
4. *Spiro Kostof - A History of Architecture - Setting and Rituals, Oxford University Press, London, 1985.*

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5. *Leland M Roth; Understanding Architecture: Its elements, history and meaning; Craftsman House; 1994.*
6. *Christopher Tadgell, The History of Architecture in India from the Dawn of civilization to the End of the Raj, Longman Group U.K.Ltd., London, 1990.*
7. *Pier Luigi Nervi, General Editor - History of World Architecture - Series, Harry N.Abrams, Inc.Pub., New York, 1972.*
8. *S.Lloyd and H.W.Muller, History of World Architecture - Series, Faber and Faber Ltd., London, 1986.*
9. *Vincent Scully: Architecture; Architecture – The Natural and the Man Made: Harper Collins Pub: 1991.*

B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	BUILDING CONSTRUCTION & SITE VISIT- I (Lab)	Credits	2
Course Code	IDD 206		
Learning Level	BTL		PO
CO	Course Outline		
C01	This subject will enhance knowledge and gain exposure to build forms (Architecture) through building construction technology and provide Understanding about various new systems of construction which will help them in practical field through building construction logic and techniques.		PO 2,3
C02	The student will able to explain properties of building elements and prepare the construction drawings through conceptual and contextual approach.		PO 6
C03	The student will able to explain principles of construction in mass buildings and use of the technical knowledge in project drawings.		P03
C04	Student will gain theoretical as well as practical knowledge of building construction & techniques.		P03
C05	Student shall be able to implement his/her knowledge on foundations, masonry, staircases to ease project execution		PO 10

Objective: *Emphasis: Exposure to build forms (Architecture) through building construction technology. Understanding various new systems of construction. Aluminium composite panel ACP*

Module I

Important building components, Foundations.

Module II

Stone masonry, brick masonry

Module III

Partitions

Module IV

Arches

Module V

Lintels, stairs

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B.Sc. INTERIOR DESIGNING & DECORATION

Reference books

1. *Time Saver Standards – Building Types*
2. *Construction Technology – Vol 1-4*
3. *Balconies Exterior & Garage Doors*
4. *Building Materials & Construction*
5. *Building Construction – B.C. Punmia (Laxmi Publication Pvt. Ltd.)*
6. *Building Construction – Sushil Kumar (Standard Publication Distributors)*
7. *Building Construction – S. C. Rangwala (Charotar Publishing House, Anand, Gujarat)*
8. *Building Construction – Gurucharan Singh (Standard Publication Distributors)*

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Course Title	ENVIRONMENTAL STUDIES (Theory)	Credits	2
Course Code	IDD 207		
Learning Level	BTL		PO
CO	Course Outline		
C01	To understand natural resources, ecosystem and the biodiversity of the planet		PO 1
C02	Understanding the Social Issues and the impact of Population on the Environment		PO 8
C03	Obtain basic knowledge on environment pollutions, its types and pollutants		PO 1
C04	Student will be able to analyze environmental problems and find their practical solutions.		PO 1,6
C05	Understand the policies and regulations related to environmental protection and sustainability.		PO 1

Objective: *Through the course sequence in ESS, students will be able to:*

- 1. Recognize major concepts in environmental sciences and demonstrate in-depth understanding of the environment.*
- 2. Develop analytical skills, critical thinking, and demonstrate problem-solving skills using scientific techniques.*
- 3. Demonstrate the knowledge and training for entering graduate or professional schools, or the job market.*

Module I- Multidisciplinary nature of environmental studies

Definition, scope and importance Natural resources.

Renewable and non-renewable resources: Natural resources and associated problems.

- Forest resources: use and over exploitation, deforestation, case studies. Timber extraction, mining, dams, and their effects on forest and tribal people.
- Water resources: use and over-utilization of surface & ground water, Floods, drought, conflicts over water, dams-benefits and problems.
- Mineral resources: use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- Food resources: world food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.
- Energy resources: growing energy needs, Renewable and non-renewable energy sources, use of alternate energy sources, case studies.

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- f. Land resources: land as a resource, land degradation, man included landslides, soil erosion and desertification.

Role of an individual in conservation of natural resources; equitable use of resources for sustainable lifestyles.

Module II- Ecosystems

- Concept of an ecosystem; * Structure & function of an ecosystem; * Producers, consumers and decomposers; * Energy flow in the ecosystem; * Ecological succession; * Food chains, food web and ecological pyramids; * Introduction, types, characteristics features, structure and function of the following ecosystems; * Forest ecosystem; Grass land ecosystem; desert ecosystem; Aquatic ecosystems (ponds, lakes, streams, rivers, oceans, estuaries)

Module III- Biodiversity and its conservation

- Introduction – Definition: genetic, species and ecosystem diversity; * Bio-geographical classification of India; * Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values; * Biodiversity at global, national and local levels; * India as a mega-diversity nation; * Hot-spots of biodiversity; * Threats to biodiversity: habitats loss, poaching of wildlife. Man-wildlife conflicts; * Endangered and endemic species of India; * Conservation of biodiversity; In-situ and ex-situ conservation of biodiversity.

Module IV- Environmental pollution

Definition * Cause, effects and control measures of Air pollution; water pollution; Soil pollution; Marine pollution; Noise pollution; Thermal pollution; nuclear hazards; * Solid waste management: cause, effects and control measures of urban and industrial wastes; * Role of an individual in prevention of pollution; pollution case studies, * Disaster management : floods, earthquake, cyclone and landslides.

Module V – Social Issues and the environment

From unsustainable to sustainable development; * urban problems related to energy; * Water conservation, rain water harvesting, watershed management; * Re-settlement and rehabilitation of people; its problems and concerns. Case studies; * Environmental ethics; issues and possible solutions; * Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies; * Wasteland reclamation; * Consumerism and waste products; * Environmental protection Act; * Air (Prevention and control of pollution) Act; * Water (Prevention and control of pollution) Act; * Wild-life Protection Act; * Forest conservation Act; * Issues involved in enforcement of Environmental legislation; * Public awareness; Population explosion- Family welfare programme; * Women and Child Welfare; * Role of information technology in Environmental and human health; * Case studies.

Field work

- Visit to a local area to document environmental assets river/ Forest/ grassland/ hill/ mountain; * Visit to a local polluted site-Urban/Rural/Industrial/Agriculture; * Study of

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common plants, insects, birds; * Study of simple ecosystem-pond, river, hill slopes etc.(
Field work equal to 5 lecture hours)

Reference books:

- 1. Environmental Biology: Agrawal K.C. 2001, NidiPubl.Ltd.Bikaner*
- 2. The Biodiversity of India: BharuchaErach, Mapin Publishing Pvt.Ltd.Ahmedabad*
- 3. Hazardous Waste Incineration: Brunner R.C.,1989, McGraw Hill Inc.480 p*
- 4. Marine Pollution: Clark R.S. Clanderson Press Oxford (TB)*
- 5. Environmental Encyclopaedia: Cunningham, W.P.Cooper, T.H.Gorhani, E&Hepworth, M.T.2001*
- 6. Environmental Chemistry: De A.K., Wiley eastern Ltd.*
- 7. Down to Earth: Centre for Science and Environments*

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Course Title	AUTOCAD – 2D & 3D (Lab)	Credits	4
Course Code	IDD 208		
Learning Level	BTL		PO
CO	Course Outline		
C01	Understand the basic interface and tools of AutoCAD 2D and 3D software.	PO 5,6	
C02	Create and edit basic 2D plans. Create and edit dimensions, text, and annotations.	PO 5,6	
C03	Use layers and linotypes to organize drawings. Create and edit floor plans, elevations, and sections.	PO 5	
C04	Create and modify 3D objects using AutoCAD. Apply materials and textures to 3D objects.	PO 5	
C05	Create and edit furniture and fixtures using 3D modelling techniques. Create and edit lights and cameras for 3D rendering.	PO 5,6	

Objective: Computer graphics as a tool for design development. Introduction to computers & their application to various fields those are relevant to the fields of study. Introduction to computer aided design and drafting techniques and some software available.

Module I

Preparation of plan of different furnitures - chair, table, wardrobe, bed, sofa, etc and their isometric view using drawing tools/commands.

Module II

Civil layout and furniture layout plan of a 2bhk /3bhk/ 4bhk apartment with dimensions and detailings.

Module III

Set layers in above designed plan and draw its elevation and view.

Module IV

3d modelling of furnitures.

Module V

3d modelling of 2bhk / 3bhk / 4bhk plan with texture and material application.

Reference books:

1. Illustrated AutoCAD 2000 for you
2. AutoCAD architectural user guide – Autodesk Inc., 1998.
3. The Illustrated AutoCAD 2002 Quick Reference, Ralph Grabowski
4. Autocad 2000: A Problem-Solving Approach, Sham tikoo. Pub: Thomson Learning, 1999

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Course Title	PRODUCT WORKSHOP (Field Project)	Credits	2
Course Code	IDD 209		
Learning Level	BTL		PO
CO	Course Outline		
C01	Student will learn hands-on experimentation, exploration of materials, model making and prototyping with various materials.		P02
C02	Student will learn to bring their projects to life, from model making to full-size construction of products and interior decoration elements.		P02
C03	Student will observe and learn the tools, techniques and design process from consultants, vendors, or any expert.		P0 9

Objective: Gain complete practical knowledge and Identify future aspects in Interior design and decoration for furniture items and product designing.

Module I: Introduction

Introduction to product designing. Types of products used in Interior designing and decoration – Interior & Exterior both.

Module II: Material exploration

Introduction to types of material used for product designing. Learning the Tools and Techniques used with all materials such as bamboo, wood, mdf, acrylic etc. Identify and explore various techniques and limitations with all material and its joineries used in Interiors.

Module III: Hands-on-activity

Material explorations with all material through hands on practice.

Module IV: Model practice –Digital design

Product designing through software (AutoCAD). Dimensions and working of the product. Placement and usage of the product with the help of 3D view.

Module V: Model practice - Prototype

Integrating Digital design and hands on experience to design and create final product of selected material. student needs to go for 15 days fieldwork training.

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	INTERIOR DESIGN STUDIO & MARKET SURVEY – II (Theory)	Credits	2
Course Code	IDD 301		
Learning Level	BTL		PO
CO	Course Outline		
C01	Interior design studio II will impart complete theoretical and practical knowledge to the students regarding the regulations, and standards, anthropometry, ergonomics, spatial concepts, psychology and working drawings of restaurant and café.	PO 6	
C02	To understand the spatial and stylistic qualities associated with design and creativity in interiors.	PO 1,6	
C03	To enable a student to understand the theory of perspective in design.	PO 7	

Objective: *What is the status of Interior Design profession today and what it should be?*

Module I

Restaurant - different types of restaurants

Module II

Restaurant - The elements of restaurants, space & layout

Module III

Bar- meaning, the elements of bar, space & layout

Module IV

Cell phone Shoppe - meaning, the elements of design, space & layout.

Module V

Interior finishes of Restaurant, Bar & Cell phone Shoppe.

Reference books

1. *Time Saver Standards – Building Types*
2. *Minimalist Lofts : Watson Guptill*
3. *Interior Design : John F Pile*
4. *Big Ideas Xs Small Buildings : Richard S. Dietrich*
5. *Retail & restaurant spaces : Kristen Richards*
6. *Office work spaces : Kristen Richards*
7. *New offices*
8. *Kevin Lynch, Site planning, MIT Press, Cambridge, 1967*
9. *121. Sam F. Miller, Design Process: A Primer for Architectural and Interior Design, Van Nostrand Reinhold, 1995*

B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	ESTIMATION & COSTING (Theory)	Credits	4
Course Code	IDD 302		
Learning Level	BTL		PO
CO	Course Outline		
C01	The estimation and costing will help understand students the process of determination of quantities of items of work, and its cost for completion and Cost estimation strategies help them to forecast the resources necessary for each step of a project and ensure that projects stay on track.		PO 8,9
C02	Gain knowledge about how to schedule & estimate different construction works both manually and using software.		PO 5
C03	Apply the approximate method and the detailed estimating method for calculating various quantities such as brick work R. C. C structures in construction projects		PO 6
C04	Analyze the quantities of materials of various components used in interior works such as furniture's flooring false ceiling etc. as per specifications for preparation of Rate analysis prevailing in market.		PO 8
C05	Explain the use of contract documents, types of contract and conditions of contract for preparation of bill of quantities and detailed abstracts of the projects		PO 6,8

Objective: Students learn about basic understanding of quantities and costs so as to make estimates in the design process.

Module I

Survey of various interior designers work – methodology. Design development stage and coordination with various agencies involved in work. Execution of work and its system of operation.

Module II

Coordination patterns of every designer, building services experts, art/craft people specialized service people. Methods of estimating, total budgeting and schedule of payment of various agencies. Project supervision responsibility and execution of total work

Module III

Basic understanding of quantities and costs so as to make estimates in the design process. Approximate estimates, methods of estimation, taking of measurements, preparation of schedule of quantities, rate analysis of various item work, preparation of estimates and recapitulation, specification in brief, principle material requirements, and their co-relation to

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estimates. Analysis of rates, Bill of Quantities and specification of different material and methods of working out the estimate.

Module IV

Worked on estimate of a small residential unit & discussed about an interior layout estimate. Estimate of residential building, quantities for roof, floor, plastering, door and window. Estimate of residential building, quantities for painting, wpc, flooring tiles.

Module V

Door and windows, wood quantity and other details. Calculate marble, tiles, wood, glass, grill, quantity for window frame and shelter and other related work. Wood quantities for window frame and shutter. Estimation of ceiling. Types of ceiling, material used and method of ceiling.

Reference books

1. *Estimating, Costing and Valuation (Professional practice)* By Rangwala – S.C CHAROTAR PUBLISHING HOUSE, INDIA.
2. *Estimating & Costing* – By B.W. Dutta (Revised by S. Dutta) UBS Publishers Distribution P.Ltd. India.
3. *Estimating Costing and Specification.* – By M. Chakraborti
4. *Estimating Costing and Valuation* – By Gurcharansingh & Jagdishsingh. Standard Publishers Distributors, 1705 – B, Naisark post box no.1066. Delhi – 110 006.
5. *PWD Standard Specifications.* Govt Publication.
6. Textbook of Estimating and Costing – G.S. Birdi (Dhanpat Rai Publications)
7. A Textbook of Estimating and Costing – Kohli & Kohli (S. Chand)

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Course Title	INTERIOR DESIGN STUDIO & MARKET SURVEY – II (Lab)	Credits	4
Course Code	IDD 303		
Learning Level	BTL		PO
CO	Course Outline		
C01	Interior design studio II will impart complete theoretical and practical knowledge to the students regarding the regulations, and standards, anthropometry, ergonomics, spatial concepts, psychology and working drawings of restaurant and café.		PO 6
C02	To understand the spatial and stylistic qualities associated with design and creativity in interiors.		PO 1,6
C03	To enable a student to understand the theory of perspective in design		PO 7

Objective: *What is the status of Interior Design profession today and what it should be?*

Module I

Restaurant - different types of restaurants

Module II

Restaurant - The elements of restaurants, space & layout

Module III

Bar- meaning, the elements of bar, space & layout

Module IV

Cell phone Shoppe -meaning, the elements of design, space & layout.

Module V

Interior finishes of Restaurant, Bar & Cell phone Shoppe.

Reference book:

1. *Time Saver Standards – Building Types*
2. *Minimalist Lofts : Watson Gupill*
3. *Interior Design : John F Pile*
4. *Big Ideas Xs Small Buildings : Richard Son Dietrich*
5. *Retail & restaurant spaces : Kristen Richards*
6. *Office work spaces : Kristen Richards*
7. *New offices*
8. *Kevin Lynch, Site planning, MIT Press, Cambridge, 1967*
9. *121. Sam F. Miller, Design Process: A Primer for Architectural and Interior Design, Van Nostrand Reinhold, 1995*

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Course Title	BATHROOM DESIGNING (Lab)	Credits	2
Course Code	IDD 304		
Learning Level	BTL		PO
CO	Course Outline		
C01	Students will learn to draft and design various types of bathrooms for residential and commercial area they will learn how plumbing and other building services are installed in bathroom area.		PO6,7,8
C02	Student will also grab the practical knowledge of bathroom design, which will directly help them in their future projects.		PO6,7,8
C03	Student will understand about various bathroom fittings and fixtures and their installation.		PO8
C04	Student will understand bathroom anthropometry and plumbing details.		PO1,3

Objective: What is the design of bathroom and study the different types of bathroom.

Module I

Bathroom- introduction, design guideline.

Module II

Types of bathrooms.

Module III

Change in the profile of a bathroom.

Module IV

Design a set of 3 residential bathrooms.

Module V

Design a set of commercial bathroom.

Reference books:

1. Time Saver Standards – Building Types
2. Minimalist Lofts: Watson Guphill
3. Interior Design: John F Pile
4. Big Ideas Xs Small Buildings: Richard Son Dietrich

B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	SERVICES & MARKET SURVEY –I (Project)	Credits	4
Course Code	IDD 305		
Learning Level	BTL		PO
CO	Course Outline		
C01	Students will learn about the various basic products for building services and its implementation.	PO 6,8	
C02	Students will learn New trends and concepts of building services are also understood with the help of market study & site visit	PO 6,8	
C03	Students will understand market well and develop the ability to choose right product for their ongoing projects as per latest trends	PO 2,6,8	
C04	Student will understand about plumbing systems in residential & commercial spaces.	PO 6,8	
C05	Student will understand about air conditioning ducting system and lightning fitting and fixtures.	PO 6,8	

Objective: *Light as theory and application to building design, especially major element in creating 'models' in interior spaces, Knowledge of various products for lighting device available in market, Understanding of requirements of Building services – water supply and drainage in building design.*

Module I

Lighting- Lighting in buildings, Light and its sources, lighting criteria, the visual field, day lighting, prediction method. Artificial lighting levels for various activities, calculations for lighting levels with market survey

Module II

Electrification-Electric layouts, science of wire distribution, control panels, switches, types of wiring, wiring for heating and cooling, ducting system and conduits. Switches as product available in market, light as product available in market – tube lights, beam lights, wall lights, and night lights. Project drawings for residence, flats, commercial and institutional building. Electrical load calculations.

Module III

Plumbing – Discussion on main system, reservoirs, fittings & types of pipes. Water supply methods & water supply layout to residential unit. Water supply to multi-storied building & commercial building, method of distribution system & water purification methods.

Module IV

Sanitation – Sanitary ware & sanitary fixtures, different types of models & brand names with sizes & catalogue details. Sanitary –Indoor & outdoor .Pressure pump, jacuzee system, steam bath, sona bath, swimming pool, water softener.

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Module V

Air Conditioning – Types of air-conditioning units- window a/c, split a/c, packaged a/c units. Air distribution system. Piping system- refrigeration piping, water piping. Air conditioning for small/large areas. Air-conditioning of large & special building projects. Specifications & codes of installation. Calculations of tonnage of a/c. Water chiller plants for commercial spaces.

Reference books:

1. *AC design Services – HVAC*
2. *Consulting Engineering : P Elanchezhiyan*
3. *E.P.Ambrose, Electric Heating, John Weley& Sons Inc., New York, 1968*
4. *Philips Lighting in Architectural Design, McGraw Hill. New York, 1964*
5. *R.G.Hopkenson&J.D.Kay, The lighting of Buildings, Faber & Faber, London, 1969 Conveying systems*
6. *Manual of water supply & treatment, 2nd edition, CPHEEO, Ministry of works and housing, New Delhi 1977*

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	BUILDING CONSTRUCTION & SITE VISIT- II (Theory)	Credits	2
Course Code	IDD 306		
Learning Level	BTL		PO
CO	Course Outline		
CO1	This subject will provide exposure to build forms (Architecture) through building construction technology and provide understanding about latest trend in construction industry.		PO 2,3
CO2	Understanding about various new systems of construction, which will help them in practical field.		PO 3,8
CO3	Student will understand latest trends of building construction techniques used in HVAC.		PO 6
CO4	Student will learn thoroughly about floor, floor coverings and roofs prevailing in market.		PO 8,9
CO5	Student will understand and learn about plastering and finishes used in built spaces.		PO 8,9

Objective: Understanding various new systems of construction.

Module I

Doors, windows, and ventilators

Module II

False ceiling, painting, varnishing, white washing, and distempering

Module III

Floors and flooring.

Module IV

Roofs, roof coverings, pointing and plastering

Module V

Ventilation & Air conditioning

Reference books

1. Time Saver Standards – Building Types
2. Construction Technology – Vol 1-4
3. Balconies Exterior & Garage Doors
4. Building Materials & Construction
5. Building Construction – B.C. Punmia (Laxmi Publication Pvt. Ltd.)
6. Building Construction – Sushil Kumar (Standard Publication Distributors)
7. Building Construction – S. C. Rangwala (Charotar Publishing House, Anand, Gujarat)
8. Building Construction – Gurucharan Singh (Standard Publication Distributors)

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Course Title	BUILDING CONSTRUCTION & SITE VISIT- II (Lab)	Credits	2
Course Code	IDD 307		
Learning Level	BTL		PO
CO	Course Outline		
C01	This subject will provide exposure to build forms (Architecture) through building construction technology and provide understanding about latest trend in construction industry.		PO 2,3
C02	Understanding about various new systems of construction, which will help them in practical field.		PO 3,8
C03	Student will understand latest trends of building construction techniques used in HVAC.		PO 6
C04	Student will learn thoroughly about floor, floor coverings and roofs prevailing in market.		PO 8,9
C05	Student will understand and learn about plastering and finishes used in built spaces.		PO 8,9

Objective: Understanding various new systems of construction.

Module I

Doors, windows and ventilators

Module II

False ceiling, painting, varnishing, white washing and distempering

Module III

Floors and flooring.

Module IV

Roofs, roof coverings, pointing and plastering

Module V

Ventilation & Air conditioning

Reference books

1. Time Saver Standards – Building Types
2. Construction Technology – Vol 1-4
3. Balconies Exterior & Garage Doors
4. Building Materials & Construction
5. Building Construction – B.C. Punmia (Laxmi Publication Pvt. Ltd.)
6. Building Construction – Sushil Kumar (Standard Publication Distributors)
7. Building Construction – S. C. Rangwala (Charotar Publishing House, Anand, Gujarat)
8. Building Construction – Gurucharan Singh (Standard Publication Distributors)

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	INTERIOR PHOTOGRAPHY VIVA VOCE (Lab)	Credits	2
Course Code	IDD 308		
Learning Level	BTL		PO
CO	Course Outline		
C01	To understand the rules of photography for interior product and project		PO 2,6
C02	To explain the definitions in photography and use of cameras for product photoshoot		PO 2,6
C03	To understand lighting in photography for product photoshoot		PO 2,6
C04	To explore the role of color in picture realization of product and accessories		PO 2,6
C05	To understand the dynamic systems in settings of camera and angle.		PO 2,6

Objective: The subject initiates the understanding of the basic principles of photography as a tool of communication and documentation, with a critical understanding of the role of light.

Module I

Introduction to basics of Photography

Module II

Introduction – Colour concept – light effects – focusing (different levels)

Module III

Still Photography – site photography.

Module IV

Photographs of different furniture.

Module V

Photographs of the existing site in different angles.

Reference books

1. Photographing people - Portraits fashion Glamour: David Wilson

B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	INTERIOR DESIGN STUDIO & MARKET SURVEY - III (Theory)	Credits	2
Course Code	IDD 401		
Learning Level	BTL		PO
CO	Course Outline		
C01	Interior design studio will enhance drawing skills as tools to design thinking, views, visualization, and representation.	PO3,4	
C02	Sketching on drawing sheets as per scale of corporate office will help students gain practical knowledge on office designing and furniture.	PO8,9,10	
C03	Student will understand office anthropometry and can use it in their further projects.	PO8,9,10	
C04	Student will gain knowledge on office scapes and their use.	PO10	
C05	Student will gain knowledge on office furniture and finishes	PO10	

Objective: *What is the status of Interior Design profession today and what it should be?*

Module I

Nature of good design, introduction if office design.

Module II

Requirement of office.

Module III

Office scape.

Module IV

Produced of design, measurement.

Module V

Specification of furniture, light colour & space of office.

Reference books

1. *Time Saver Standards – Building Types*
2. *Minimalist Lofts: Watson Gup till*
3. *Interior Design: John F Pile*
4. *Big Ideas Xs Small Buildings: Richard Son Dietrich*
5. *Office work spaces: Kristen Richards*
6. *New offices*
7. *Kevin Lynch, Site planning, MIT Press, Cambridge, 1967*
8. *121. Sam F. Miller, Design Process: A Primer for Architectural and Interior Design, Van Nostrand Reinhold, 1995*

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	INTERIOR DESIGN STUDIO - III (Lab)	Credits	4
Course Code	IDD 402		
Learning Level	BTL		PO
CO	Course Outline		
C01	Interior design studio will enhance drawing skills as tools to design thinking, views, visualization, and representation.		P03,4
C02	Sketching on drawing sheets as per scale of corporate office will help students gain practical knowledge on office designing and furniture.		P08,9,10
C03	Student will understand office anthropometry and can use it in their further projects.		P08,9,10
C04	Student will gain knowledge on office scapes and their use.		P010
C05	Student will gain knowledge on office furniture and finishes		P010

Objective: *Drawing skills as tools to design thinking, views, visualization, and representation.
Sketching on drawing sheets as per scale of corporate office.*

Module I

Corporate office of Multi National Company - Presentation Plan, Furniture layout, Sectional Elevations.

Module II

Corporate office of Multi National Company - Facade detailing, False Ceiling Layout, Electrical points Layout, Furniture details.

Module III

Office- meeting room Presentation Plan, Furniture layout, Sectional Elevations, False Ceiling Layout.

Module IV

Office -reception Electrical points Layout, Luminaries Layout, Facade Detailing, Furniture details.

Module V

Different views made in 3D max of corporate office of Multi National Company& Mall.

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Reference books

1. *Time Saver Standards – Building Types*
2. *Minimalist Lofts: Watson Guphill*
3. *Interior Design: John F Pile*
4. *Big Ideas Xs Small Buildings: Richard Son Dietrich*
5. *Office work spaces: Kristen Richards*
6. *New offices*
7. *Kevin Lynch, Site planning, MIT Press, Cambridge, 1967*
8. *121. Sam F. Miller, Design Process: A Primer for Architectural and Interior Design, Van Nostrand Reinhold, 1995*

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	VASTU (Theory)	Credits	2
Course Code	IDD 403		
Learning Level	BTL		PO
CO	Course Outline		
C01	The idea about Vastushastra helps the students learn and implement benefit from the residence or any space they design by getting all the correct directions so that the occupants leave in peace and achieve success onwards.		PO1,6,7,8
C02	Students will be able to use panchtatvas of nature to enhance the space planning.		PO1,6,7,8
C03	Students will be able to use fengshui to enhance the residential and commercial spaces.		PO1,6,7,8
C04	Student will be able to rectify vastu of existing built space and recommend vastu remedies.		PO1,6,7,8
C05	Student will be able to use landscape and water as interior elements as per vastu.		PO1,6,7,8

Objective: Student's got knowledge about different perspective of vastu.

Module I

Introduction of vastu, Necessity of vastu, Home Plan

Module II

Role of vastu in 21st century, How to follow vastu, Direction of vastu, Location of vastu, Placement of vastu, vastu-subdivision, Effects of vastu and their solution

Module III

Managing Interiors with vastu, plotting of vastu, Main entrance of vastu, Residential vastu, Colony vastu, Commercial Vastu.

Module IV

Sectioning and educational vastu, Industrial vastu, Disadvantages of vastu. Vastu in interiors.

Module V

Basic knowledge of Chinese fengshui as per Indian cultures

Reference books

1. vastu – Building Types
2. Smita Jain Narang
3. (Ph.D in VaastuShastra)
4. <http://www.vaastu-shastra.com>

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Course Title	SERVICES & MARKET SURVEY- II (Theory)	Credits	2
Course Code	IDD 404		
Learning Level	BTL		PO
CO	Course Outline		
C01	Student will learn by visiting commercial places like restaurants and hotels. They gained Fire Fighting practical knowledge with the help of market survey.		PO 4,7,8
C02	Student learnt by visiting commercial places like restaurants and hotels. They gained Lifts practical knowledge with the help of market survey.		PO 4,7,8
C03	Student learnt by visiting commercial places like Malls and big stores. They gained Escalators practical knowledge with the help of market survey.		PO 4,7,8
C04	Student learnt by visiting residential places like Flats and multistory building. They gained Garbage Disposal practical knowledge with the help of market survey.		PO 4,7,8
C05	Student learnt by PPT presentation. They with the help of catalogs, booklets, leaflets, visiting cards.		PO 4,7,8

Objective: Light as theory and application to building design, especially major element in creating 'models' in interior spaces. Knowledge of various products for lighting device available in market, Understanding of requirements of Building services – water supply and drainage in building design

Module I

Fire Fighting – Introduction to firefighting, Classification of fire, Fire extinguishers – types of fire extinguishers, General description of fire protection system, and Precautionary measures of fire. Short circuits study & its remedy.

Module II

Lifts– Introduction, Types of, Facilities in lifts, Sinages used in lifts. Safety & Security – Introduction, Sensors – how it works, Gadgets used for security measures – where to use it.

Module III

Escalator – Introduction, Types of escalators. Safety & Security – Introduction, Sensors – how it works, Gadgets used for security measures – where to use it.

Module IV

Garbage Disposal – Types of garbage, Working of garbage chute, Process of collection of garbage through chute, understanding of requirement of building service in building design, Brush cleaning and garbage compacter.

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Module V

Networking – Introduction to networking, Types of networking, Types of computer networking, Hardware used in computer networking, merging of networking with Interior Designing.

Reference books

1. *Elevators, Escalators, Moving Walkways – Manufactures catalogues*
2. *Handbook of building Engineers in metric systems, New Delhi 1968*
3. *National Building Code*

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	EXHIBITION & MODEL MAKING (Lab)	Credits	2
Course Code	IDD 405		
Learning Level	BTL		PO
CO	Course Outline		
C01	To learn scale and techniques to make block & 3D Model for better visualization.		P05
C02	To be able to understand the model scales in 3D		P01
C03	Developing hand on experience and applying joinery techniques to make wooden models		P01,2
C04	To document and present the models using various representation skills		P03,5
C05	To understand the workability of materials for finish quality		P03,5

Objective: Preparing models for interior spaces.

Module I

Introduction to study models. Using quick material and to make them presentable.

Module II

Making models of Different types of furniture items like bed, 2 seater sofa set, and 3 seater sofa set.

Module III

Making models of Different types of furniture items like centre table, wardrobe, and dining table.

Module IV

Making models of Different types of residences.

Module V

Making live models of Different types of interior theme in exhibition etc.

Reference books

1. *Minimalist Lofts* : Watson Gupthill
2. *Interior Design* : John F Pile
3. *Big Ideas Xs Small Buildings* : Richard Son Dietrich
4. *Designing with light and shadow* : Kaoru Mende

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Course Title	AUTODESK 3D MAX (Lab)	Credits	2
Course Code	IDD 406		
Learning Level	BTL		PO
CO	Course Outline		
C01	Basic 3D Modelling Techniques: Students should be able to create basic 3D models using 3ds Max		P05,6,11
C02	Materials and Textures: Students should be able to apply materials and textures to 3D models in 3ds Max. They should understand the basics of shading		P05,6,11
C03	Basic shapes, changing the parameters to required dimensions, Vertex manipulation – using 4 options, use of Edit Spline to modify shapes, use of commands like attach and Boolean. Use of extrudes to obtain 3D shapes for 2D objects		P06,11
C04	Basic shapes, changing the parameters to required dimensions, Vertex manipulation – using 4 options, use of Edit Spline to modify shapes, use of commands like attach and Boolean. Use of extrudes to obtain 3D shapes for 2D objects		P06,11
C05	Lighting and Rendering: Students should be able to create and manipulate lighting and camera systems in 3ds Max, including setting up realistic lighting and rendering scenes to create final output		P06,11

Objective: Students learn about different tools used in Autodesk Maya and their uses.

Module I

Tool description of Autodesk 3D Maya.

Module II

Poly Modelling & Surface Modelling.

Module III

Texture Material.

Module IV

Light: Light Point, Directional Light, Target Light.

Module V

Rendering & Camera Movement

Reference Book

1. Autodesk 3D Max – 2014 Bible by Kelly L. Murdock.

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	FOREIGN LANGUAGE (Theory)	Credits	2
Course Code	IDD 407		
Learning Level	BTL		PO
CO	Course Outline		
C01	Communicate effectively in the foreign language via proficient, articulate, and well-organized writing.		PO2,6,7,10
C02	Understand comprehension of the spoken foreign language in a variety of listening situations.		PO 1,4,5,10
C03	Understand comprehension of a wide range of foreign language written materials.		PO 6,7,10

There are three international languages listed below from which only one will be taught to Be students.

- French
- German
- Italian

FRENCH LANGUAGE

Grammair:Module I

Gendre, Article define et indéfini. Singulier et Pluriel, Nombres – cardinaux et ordinaux, Prononciation.

Module II

Nom, Pronom, Vocabulaire, Preposition et adjective (Qualificatif, Possessif et démonstratif)

Module III

Les Verbe(Conjugaison); Présent, passé et future

Texte:

Module IV

Leçon 1- 14 Vocabulaire, grammaire

Module V

Leçon 15 – 25 Vocabulaire, grammaire Livre Cours de Langue et de civilisation Française

Reference Book

G. MAUGER

B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	PRODUCT WORKSHOP-II (Lab)	Credits	2
Course Code	IDD 408		
Learning Level	BTL		PO
CO	Course Outline		
CO1	Student will learn hands-on experimentation, exploration of materials, model making and prototyping with various materials.		P02
CO2	Student will learn to bring their projects to life, from model making to full-size construction of products and interior decoration elements.		P02
CO3	Student will observe and learn the tools, techniques and design process from consultants, vendors, or any expert.		PO 9

Objective: Gain complete practical knowledge and Identify future aspects in Interior design and decoration for furniture items and product designing.

Module I: Introduction

Introduction to product designing. Types of products used in Interior designing and decoration – Interior & Exterior both.

Module II: Material exploration

Introduction to types of material used for product designing. Learning the Tools and Techniques used with all materials such as bamboo, wood, mdf, acrylic etc. Identify and explore various techniques and limitations with all material and its joineries used in Interiors.

Module III: Hands-on-activity

Material explorations with all material through hands on practice.

Module IV: Model practice –Digital design

Product designing through software (AutoCAD). Dimensions and working of the product. Placement and usage of the product with the help of 3D view.

Module V: Model practice - Prototype

Integrating Digital design and hands on experience to design and create final product of selected material.

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	INTERNSHIP (Project)	Credits	2
Course Code	IDD 409		
Learning Level	BTL		PO
CO	Course Outline		
C01	To observe and learn the tools, techniques and design process from different consultants,Vendors,Artists		PO10,9,2

Internship is compulsory for all students under the architect and interior designers, duration is of two months and get the experience certificate and submit it to the University for the Record. The reason is that they learn more on the job as they take up live projects, which will be given to them by Architects or designers with whom they are placed. Students obtain placement with Architectural firms which are looking for specialists in Interior Designing some with entrepreneurial quality find it very lucrative for self-made business enterprise, while others choose free-lancing in Interior Design.

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Course Title	PRODUCT WORKSHOP-II (Lab)	Credits	2
Course Code	IDD 501		
Learning Level	BTL		PO
CO	Course Outline		
C01	Retail Design will help student understand about the intersection of architecture, interior, marketing, strategy and design of the built environment.		PO 1
C02	Understand the functions of retail business and various retail formats and retail channels.		PO 6,7
C03	Understand the need of retail stores and furniture's required.		PO6,7
C04	To understand and apply an innovative and progressive approach to address design issues intrinsic to the evolution and transformation of retail environments		PO6,7
C05	To understand and deal with design issues effectively.		PO1,6,7

Objective: *What is the status of Interior Design profession of retail design and what it should be?*

Module I

Retail design-introduction different types of retail design

Module II

Retail design- The elements of retails design, space & layout

Module III

Materials, furniture space & layout cash counter.

Module IV

Window display of retail design, space & layout

Module V

Lighting and Electrical points Layout, Furniture details.

Reference books

1. *Time Saver Standards – Building Types*
2. *Minimalist Lofts : Watson Gup till*
3. *Interior Design : John F Pile*
4. *Big Ideas Xs Small Buildings : Richard Son Dietrich*
5. *Retail & restaurant spaces : Kristen Richards*
6. *Office work spaces : Kristen Richards*
7. *New offices*
8. *Kevin Lynch, Site planning, MIT Press, Cambridge, 1967*
9. *121. Sam F. Miller, Design Process: A Primer for Architectural and Interior Design, Van Nostrand Reinhold, 1995*

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Course Title	PROFESSIONAL PRACTICES	Credits	4
Course Code	IDD 502		
Learning Level	BTL		PO
CO	Course Outline		
CO1	Understand issues of ethics and morality specifically related to the interior designing profession.		PO4,6,7,8
CO2	Develop strategies for undertaking research and design for projects and select appropriate research methods on projects.		PO4,6,7,8
CO3	Demonstrate an understanding of management skill.		PO4,6,7,8
CO4	Student will learn about the own partnership firm and learn about how to start their own new business. Also about the basic income tax laws.		PO4,6,7,8

Objective: The subject intends to equip the students with aspects of commercial and administrative market practice of the profession of Interior designer. The course will be both practical as well as theoretical. The students need to know and do for example to create a viable business operation that is sound and profitable whether it is a small business or a large business. One of the major elements contributing to business failure is the lack of entrepreneurial qualities. They need to know where they might be weak and find out how to strengthen themselves; this can take various forms.

Module I

Introduction – Professional ethics, code of conduct and responsibility, responsibility towards clients, responsibility towards contractor, professional responsibility.

Module II

Specification – specification and schedule writing, mode of work and units of measurement, colour chart and material chart.

Module III

Tenders – Types of tenders, tender forms, terms and conditions, NIT(Notice Inviting Tenders), composition of tender document, tender notice BOM, general condition sheet, contract document specification, acceptance letter, etc. Set of working drawings.

Module IV

Preparation of tendering – floating, receiving, opening and tabulation, acceptance of tender and further formalities. Criteria of contemporary tenders. Pre tender qualifications and pre bid meetings.

Module V

Emphasis with regard to their own partnership firm and company where 2 or more students would like to start business. The procedures to learn the business with management

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background will be an added advantage. Administering the entire firm / company with respect to executing the projects. Liability of service tax and basic of income tax.

Reference books

1. *Ar. V.S. Apte, Architectural Practice and Procedure, PadmajaBhide, Pune, 2008.*
2. *Dr. B.C. Punmiya and K.K. Khandelwal – Project Planning and Control with PERT / CPM, Laxmi Publications, New Delhi, 1987.*
3. *WTO and GATT guidelines.*
4. *Publications of Handbook on Professional practice by IIA.*

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Course Title	RETAIL DESIGN & MARKET SURVEY (Lab)	Credits	2
Course Code	IDD 503		
Learning Level	BTL		PO
CO	Course Outline		
C01	Retail Design will help student learn about the intersection of architecture, interior, marketing, strategy and design of the built environment.		P01
C02	Understand the functions of retail business and various retail formats and retail channels.		P06,7
C03	Understand the need of retail stores and furniture's required.		P06,7
C04	To understand and apply an innovative and progressive approach to address design issues intrinsic to the evolution and transformation of retail environments		P06,7
C05	To understand and deal with design issues effectively.		P01,6,7

Objective: What is the status of Interior Design profession of retail design and what it should be?

Module I

Retail design - Presentation Plan, Furniture layout, Sectional Elevations, False Ceiling Layout,

Module II

Retail design - Electrical points Layout, Luminaries Layout,

Module III

Cash counter - Presentation Plan, Furniture layout, Sectional Elevations, False Ceiling Layout, and Electrical points Layout, Luminaries Layout, Facade Detailing, Furniture details.

Module IV

Head cabin - Presentation Plan, Furniture layout, Sectional Elevations, False Ceiling Layout.

Module V

Retail shop - Facade Detailing, Furniture details

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Reference books

1. *Time Saver Standards – Building Types*
2. *Minimalist Lofts : Watson Guphill*
3. *Interior Design : John F Pile*
4. *Big Ideas Xs Small Buildings : Richard Son Dietrich*
5. *Retail & restaurant spaces : Kristen Richards*
6. *Office work spaces : Kristen Richards*
7. *New offices*
8. *Kevin Lynch, Site planning, MIT Press, Cambridge, 1967*
9. *121. Sam F. Miller, Design Process: A Primer for Architectural and Interior Design, Van Nostrand Reinhold, 1995*

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Course Title	DESSERTATION (PROJECT)	Credits	4
Course Code	IDD 504		
Learning Level	BTL		PO
CO	Course Outline		
CO1	Students will engage in systematic discovery and critical review of appropriate and relevant information sources. They will apply qualitative and/or quantitative evaluation processes to original data. understand and apply ethical standards of conduct in the collection and evaluation of data and other resources		PO5,6,7

Objective: The subject is the culminating synthesis and creativity of all the students that have been carried out. The stress is on translating all the values, attitudes, and skills by the students into a subjective and objective thesis. Stress is equally on the expressionist qualities of the student.

Module 1

Site study – Identification of sites, site surveys

Module 2

Site study –finalization and justification of the selected site, analysis of the selected site

Module 3

Clients brief – Identification of the scope and objectives.

Module 4

Clients brief –data collection of design brief, establishment of requirements.

Module 5

Objective study – Analysis of design brief, formation of rough schemes, finalization of the presentation design, and presentation of the design finalized, complete drawing details of whole project.

Implementation strategy-

Focus is on individualistic approach to the problem and one to one discussion with competent guide resulting in a professionally satisfying presentation of the thesis that would put to test the individual strength and the calibre of the student.

NOTE- one soft and one hard copy of objective dissertation is to be submitted at the end of the semester.

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Course Title	LANDSCAPE DESIGNING (Lab)	Credits	4
Course Code	IDD 505		
Learning Level	BTL		PO
CO	Course Outline		
C01	Retail Design will help student learn about the intersection of architecture, interior, marketing, strategy and design of the built environment.		PO1
C02	Understand the functions of retail business and various retail formats and retail channels.		PO6,7
C03	Understand the need of retail stores and furniture's required.		PO6,7
C04	To understand and apply an innovative and progressive approach to address design issues intrinsic to the evolution and transformation of retail environments		PO6,7
C05	To understand and deal with design issues effectively.		PO1,6,7

Objective: Transformation of interior spaces through natural elements of design – Interior landscaping.

Module I

Historical Background, Principles of Landscape design, Elements of Design

Module II

Site Analysis, Site Assessment, Defining Use Areas.

Module III

Selection of Plant Species, Natural & Man Made Landscape Material.

Module IV

Exterior Landscaping, Interior Landscaping, Principles of Interior Landscape Maintenance, Xeriscaping

Module V

Site Inventory, the Design Process, Case Study, Conversion Formula.

Reference books

1. Water Gardens – Hazel White
2. Small spaces Beautiful Gardens : Keith Davitt
3. Making the most of a small Garden : Peter Mchoy
4. Trees of India : PallavaBaglaSubhadra Menon
5. Modern Landscape : Michael Spens
6. Landscapers : Aaron Betsky

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7. *Reinventing The Garden : Louisa Jones*
8. *Serene Gardens : Yoko Kawaguchi*
9. *Michael Laurie, An Introduction to Landscape Architecture, Elsevier, 1986.*
10. *Geoffrey And Susan Jellicoe, The Landscape of Man, Thames And Hudson, 1987.*
11. *T S S for Landscape Architecture, Mc Graw Hill, Inc, 1995*
12. *Grant W Reid, From Concept to Form in Landscape Design, Van Nostrand Reinhold Company, 1993.*
13. *Brian Hackett, Planting Design, Mc Graw Hill, Inc, 1976*
14. *Handbook of urban landscape, Cliff Tandy, Architectural press, 1973*
15. *T.K. Bose and Chowdhury, Tropical Garden Plants in Colour, Horticulture and Allied Publishers, Calcutta, 1991.*

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Course Title	3D VISUALIZATION (Lab)	Credits	4
Course Code	IDD 506		
Learning Level	BTL		PO
CO	Course Outline		
C01	Students will be able to Work with and navigate the unique features of the digital 3D modeling workspace to create 3D objects.		P06,7,11
C02	Identify characteristics of rendering 3D objects for optimal system processing and analysis.		P06,7,11
C03	Create a 3D environment featuring lighting and textures. Create basic 3D models and animations.		P06,7,11
C04	Evaluate digital 3D projects, identify items for improvement, and implement changes.		P06,7,11
C05	Students will be able to Work with and navigate the unique features of the digital 3D modeling workspace to create 3D objects.		P06,7,11

Objective: 3D Visualization is any technique for efficiently communicating information and data (i.e. 3D models, 3D predefined views, diagrams, animations, etc) for the display of definition data, derived data, and other archived data artifacts. Through visualization student learn about technique for creating **images, diagrams, or animations** to communicate a message.

Module I

Modelling in Interior Designing.

Module II

Texturing in Interior Designing.

Module III

Lightning in Interior Designing.

Module IV

Rendering in Interior Designing.

Module V

Visualization on Camera.

Reference Books

1. *Introduction to 3D Spatial Visualization: An Active Approach*, Sheryl Ann Sorby, Anne Frances Wysocki

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	GREEN BUILDING TECHNOLOGY (Theory)	Credits	4
Course Code	IDD 507		
Learning Level	BTL		PO
CO	Course Outline		
CO1	On successful completion of the course the students should have understood the importance of green building technology.		PO 6
CO2	Student will have acquired knowledge in recent green building materials and how to use them in interiors for effective results.		PO1,2,4
CO3	Student will be well known about GRIHA, LEED & IGBC and their norms – national & international both.		PO4,6

Objective: On successful completion of the course the students should have understood the importance of green building technology. Acquired knowledge in recent green building materials and to trap rain water.

Module I

Green building technology – Meaning, concept, impact of green building on human health and natural environment, need, importance and benefits of green buildings

Module II

Materials and finishes used in green building – Bamboo, straw, wood, dimension stone, Recycled stone, non-toxic metals, Earth blocks-compressed, rammed, baked; vermiculites, flax linen, sisal, wood fibres, cork, coconut ,polyurethane block.

Module III

Green building practices and technologies. Roof, walls, floors – electrical, plumbing, windows, and doors, heating, ventilation and air conditioning (HVAC), insulation, Interior finishes, landscaping.

Module IV

Renewable energy resources – meaning and importance, solar energy – advantages, principles and functions of solar devices – solar room heater, solar lights, solar water heater, solar air conditioners.

Module V

Water conservation technologies Rain water harvesting-importance, requirements of rain water harvesting structure, types of rain water harvesting systems, advantages

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Reference Books

1. *Rai G.D (1996), Solar Energy Utilization, Khanna Publichsers, Delhi.*
2. *Riggs, J.R. (1992) Materials and components of Interior Design, Regents Hall, New Jersey.*
3. *Faulkner, R., and Faulkner. S, (1987) Inside Today's Home, Rinehart publishing House, Newyork.*
4. *Roa, M.P. (1998), Interior design, principles and practice, standard publishers, Delhi.*
5. *Despande, R.S, (1974) Build your own home, United book corporation, Poona.*

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Course Title	ERGONOMICS (Theory)	Credits	4
Course Code	IDD 508		
Learning Level	BTL		PO
CO	Course Outline		
CO1	Student will Understand the "physiology" of human body and how types of movements can cause ergonomic problems related to tools/task/workplace.		PO6,7
CO2	Student will Know how to create "pragmatic" solutions for the design of tools, workplace and tasks using ergonomics knowledge		PO6,7

Objective: To enable the students to gain knowledge on importance of ergonomics in work effectiveness. Design work areas using ergonomic principles.

Module I

Concept of ergonomics – Meaning, importance, and factors involved – worker, work place, tools and equipment, environment, climate.

Module II

Work environment – Location, space, indoor and outdoor climate, furniture, lighting and ventilation, flooring, noise, storage facilities, kitchen layouts.

Module III

Anthropometry – Anthropometric dimension of workers at work and at rest, normal and maximum vertical and horizontal reaches, work heights when seated and standing, worker in relationship with workspace and activities.

Module IV

Improving work efficiency- Concept of efficiency, principles and work and implication technique, effective use of body mechanics, posture involved in different activities, Mundel's classes of change.

Module V

Design of work place – Activity analysis – Designing work areas based on ergonomics principles.

Reference Books:

1. Barner, R.M., (1980), *Motion and Time Study, Design and Measurement of work*, John Wiley, New York.
2. Borgert, E. (1982) *Housecraft – Principles and Practices*, Issac Pitman, London.
3. Chaffin, D.B. and Andersson, G.B.J. (1984) *Occupational Biomechanics*, John Wiley, New York.
4. Cromwell, L. Weibell, F.J. and Pfeiffer, E.A. (1991) *Biomedical Instrumentation and*
5. *Measurements*, Prentice Hall, New Delhi.

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	ADVANCE PROFESSIONAL PROJECT MANAGEMENT	Credits	4
Course Code	IDD 601		
Learning Level	BTL		PO
CO	Course Outline		
C01	The subject will equip the students with aspects of commercial and administrative market practice of the profession of interior design.		PO6,7,8,9,10
C02	This will include understanding and implementations, the responsibilities and scope of work as a designer.		PO6,7,8,9,10
C03	Student would have learned about Office procedures, study of building codes, selection and appointments of various expert and consultant to various works.		PO6,7,8,9,10
C04	Student will gain knowledge about types of startups and companies.		PO6,7,8,9,10
C05	Student will understand legal rights and norms about company and their regulations.		PO6,7,8,9,10

Objective: The subject intends to equip the students with aspects of commercial and administrative market practice of the profession of interior design.

Module I

Office management-working on an interior designs office, Scale of fee.

Module II

Career opportunities-how to enter the profession and type of avenues open. Advantages and limitations of different options/avenues

Module III

Career opportunities- Latest trends in professional practice for eg. Super specialization, acquisitions, merges, tie-ups, collaborations, take over's.

Module IV

Project Management-Introduction to Project Management. Principles of Management. Establishment and financial implications. Concepts of PERT and CPM. Maintenance and refurbishment.

Module V

Introduction to site management. Project resourcing. Time management.

Implementation strategy

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Mostly the approach will be practice based exercise and activities. This will include understanding and implementations, the responsibilities and scope of work as a designer. Office procedures, study of building codes, selection and appointments of various expert and consultant to various work. Actual working of the cost of the project with the help of marker rates, quantities, preparations of the tender etc. Selection of tender, preparation of contract, appointing contractors, regulating site visits, site instructions, preparing bills.

Reference books

1. *Construction Project Management Planning, Scheduling and Control* – Chitkara, K.K. (Tata McGraw Hill Publishing Co., New Delhi, 1998)
2. *Project Mangement: A systems Approach to Planning, Scheduling and Controlling* – Harold Kerzner (CBS Publishers & Distributors, Delhi, 1988)
3. *Project management for Construction: Fundamental Concepts for owners, Engineers, Architects and Builders* – Chris Hendrickson and Tung Au, (Prentice Hall, Pittsburgh, 2000)
4. *Construction Project Management* – Frederick E.Gould (Wentworth Institute of Technology, Vary E.Joyce, Massachussetts Institute of Technology, 2000)
5. *Project Management* – Choudhury, S. (Tata McGraw Hill Publishing Co., New Delhi, 1988)

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Course Title	PORTFOLIO PRESENTATION	Credits	8
Course Code	IDD 602		
Learning Level	BTL		PO
CO	Course Outline		
C01	As a result of completing their design process student will be learn the development of a portfolio for fashion design. Through the creation of the portfolio of work they develop, to an essential level, their understanding of practices, techniques, methodologies and skills required for interior design		P09,10

Objective: *This Subject provides you with an opportunity to start the development of a portfolio for fashion and Interior design. Through the creation of the portfolio of work you develop, to an essential level, your understanding of practices, techniques, methodologies and skills required for fashion and Interior design.*

A Statement of Style:

Students should develop project collections with their own creativity using a theme and should develop Presentation Boards, Flats specifications. Evaluation will be made by team consisting internal & external examiners will evaluate the portfolio submitted by the candidate. One of the same themes can be selected for Design Collection.

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Course Title	LIGHTNING & EXHIBITION (Theory)	Credits	4
Course Code	IDD 603		
Learning Level	BTL		PO
CO	Course Outline		
CO1	Demonstrate the lighting pros and cons of three traditional stage types: Proscenium, Thrust and Arena. Produce the following drawings/schedules: light plot, instrument schedule, cheat sheet. Demonstrate the pros & cons of four stage lighting instruments:		PO1,9,10

Objective: Light as theory and application to building design, especially major element in creating 'models' in interior spaces. Knowledge of various products for lighting device available in market. Understanding of requirements lighting.

Module I

Lighting- Lighting in buildings, Light and its sources, lighting criteria, the visual field, day lighting, prediction method. Artificial lighting levels for various activities.

Module II

Electrification-Electric layouts, science of wire distribution, control panels, switches, types of wiring, wiring for heating and cooling, ducting system and conduits. Switches as product available in market, light as product available in market – tube lights, beam lights, wall lights, and night lights. Project drawings for residence, flats, commercial and institutional building. Electrical load calculations.

Module III

Lighting – electrical layout with completed details.

Module IV

Lighting – calculations for lighting levels with market survey.

Module V

Lighting –make a presentation on completed module soft and hard copy.

Reference books:

1. AC design Services – HVAC
2. Consulting Engineering : P Elanchezhiyan
3. E.P.Ambrose, Electric Heating, John Weley& Sons Inc., New York, 1968
4. Philips Lighting in Architectural Design, McGraw Hill. New York, 1964
5. R.G.Hopkenson&J.D.Kay, The lighting of Buildings, Faber & Faber, London, 1969
Conveying systems

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Course Title	ACOUSTICS (Theory)	Credits	4
Course Code	IDD 604		
Learning Level	BTL		PO
CO	Course Outline		
CO1	The course will make students understand Sound as theory and application to building design.		PO9,10
CO2	Students will understand major element in creating 'models' in interior spaces as well as Knowledge of various products for acoustic material available in market.		PO9,10
CO3	Student will gain knowledge on room acoustics in residential, commercial & industrial buildings.		PO9,10
CO4	Student would have learned about theatre and auditorium acoustics and all acoustical & sound proofing material used		PO9,10

Objective: Sound as theory and application to building design, especially major element in creating 'models' in interior spaces. Knowledge of various products for acoustic material available in market.

Module I

Acoustics –introduction and types

Module II

Acoustics –sound proofing and acoustical materials.

Module III

Acoustics –materials of auditorium.

Module IV

Acoustics –search different types of materials residences and commercial with market survey

Module V

Acoustics – make a presentation on completed module soft and hard copy.

Reference books

1. Acoustics design Services – HVAC
2. Consulting Engineering : P Elanchezhiyan
3. Acoustics materials – Gurucharan Singh (Standard Publication Distributors)
4. Acoustics materials – B.C. Punmia (Laxmi Publication Pvt. Ltd.)

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Course Title	INTERNSHIP (Commercial)	Credits	8
Course Code	IDD 605		
Learning Level	BTL		PO
CO	Course Outline		
CO1	To observe and learn the tools, techniques and design process from consultants		PO10,9,2

Objective:

- Identification (name, headquarters, legal documents, size, history...)*
- Settlement Area (settlement area in Lebanon or abroad)*
- Presentation of the activity sector (creation, manufacturing, subcontracting, distribution, press office, style office etc.); sector (couture, prêt-a porter, mass production); types of products (Women, men, children etc)*
- Organizational chart*
- Relationships with the external environment (optional)*

Internship is compulsory for all students under the architect and interior designers, duration is of three months and get the experience certificate and submit it to the University for the Record. The reason is that they learn more on the job as they take up live projects, which will be given to them by Architects or designers with whom they are placed. Students obtain placement with Architectural firms which are looking for specialists in Interior Designing some with entrepreneurial quality find it very lucrative for self-made business enterprise, while others choose free-lancing in Interior Design.

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B.Sc. INTERIOR DESIGNING & DECORATION

Course Title	INTERNSHIP (Residence)	Credits	8
Course Code	IDD 606		
Learning Level	BTL		PO
CO	Course Outline		
CO1	To observe and learn the tools, techniques and design process from consultants		PO10,9,2

Objective:

- Identification (name, headquarters, legal documents, size, history...)*
- Settlement Area (settlement area in Lebanon or abroad)*
- Presentation of the activity sector (creation, manufacturing, subcontracting, distribution, press office, style office etc.); sector (couture, prêt-a porter, mass production); types of products (Women, men, children etc)*
- Organizational chart*
- Relationships with the external environment (optional)*

Internship is compulsory for all students under the architect and interior designers, duration is of three months and get the experience certificate and submit it to the University for the Record. The reason is that they learn more on the job as they take up live projects, which will be given to them by Architects or designers with whom they are placed. Students obtain placement with Architectural firms which are looking for specialists in Interior Designing some with entrepreneurial quality find it very lucrative for self-made business enterprise, while others choose free-lancing in Interior Design.