MATS UNIVERSITY, RAIPUR

SCHOOL OF FASHION DESIGNING & TECHNOLOGY

SYLLABUS

For

(Three Year Full-time Degree Programme)

Bachelor of Science - Interior Designing & Decoration

(B.Sc. IDD)

2025-28

(Semester Based Course)

SEMESTER -I

Course Title	Basic Design (Theory)	Credits:	2
Course Code	BSC DSC-005-T		
Learning Level	BTL		
CO	COURSE OUTCOMES		PO
CO1	To understand the basics of elements and principles of design		PO 1,2
CO2	To develop the understanding of shapes in reference to elements and principles		PO 1,2
CO3	To understand space making by using solid shapes and creating visual composition		PO 2,3
CO4	To develop the vision of color and color wheel in different scenarios		PO 3,4
CO5	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

Colour Theory-

Basics of color theory, color wheel(Primary colours, Secondary Colours, Tertiary Colours)**,** Qualities of colour – Hue, Intensity, Tone, Tints, Shade.
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.) &Factors influencing colour scheme.

Module II

Colour psychology-

How colours affect the human psychology for interior, commercial & public spaces with case study.

Module III

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, Forms & Scale.

Module IV
Principles of design –

Background , Emphasis , Balance , Unbalance , Symmetry, Asymmetry , Rhythm/movement ,Pattern, Contrast , Harmony, Monotone , Unity ,Scale and Proportion , conflict, dominance, attention, gradation. Golden ratio & its application in design.

Module V

Application of basic design in interiors-

Creating Interior layout -using design principles, furniture arrangement basics, visual hierarchy and decor placement, surface design for walls, floors and ceiling. Case study of well designed interiors.

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*

Semester - I			
Course Title	**Basic Design (Lab)**	**Credits:**	**2**
Course Code	**BSC DSC-005-P**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	To gain knowledge on aesthetic and artistic form of art in interiors.		PO 1
CO2	Student will gain practical knowledge on basic designing to full-size construction of furniture and interior decoration elements through visualization.		PO 2,3,5
CO3	Student will learn to use color scheme efficiently in interiors.		PO 2
CO4	Student will understand designing concept and design ideas behind Designer mirror and lamps.		PO 2
CO5	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

Colour Theory-

Basics of color theory, color wheel(Primary colours, Secondary Colours, Tertiary Colours)**,** Qualities of colour – Hue, Intensity, Tone, Tints, Shade.
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.) &Factors influencing colour scheme.

Module II

Colour psychology-

How colours affect the human psychology for interior, commercial & public spaces with case study.

Module III

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, Forms & Scale.

Module IV
Principles of design –

Background , Emphasis , Balance , Unbalance , Symmetry, Asymmetry , Rhythm/movement ,Pattern, Contrast , Harmony, Monotone , Unity ,Scale and Proportion , conflict, dominance, attention, gradation. Golden ratio & its application in design.

Module V

Application of basic design in interiors-

Creating Interior layout -using design principles, furniture arrangement basics, visual hierarchy and decor placement, surface design for walls, floors and ceiling. Case study of well designed interiors.

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*

Semester - I			
Course Title	**Interior Designing Fundamentals(Theory)**	**Credits**	**2**
Course Code	**BSC DSC-006**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	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
CO2	The rules are taught as *the* base ground or the foundation of interior designing to make student understand all basic of an interior project.		PO 1
CO3	Students Will be able to learn and draft the layouts like civil, Furniture etc.		PO 3
CO4	Students will learn basics of interior designing and furniture designing.		PO 1,2
CO5	Student will gain fundamental knowledge of drafting, measurements and anthropometry.		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 & Principles of Interior Designing, role of design in interior spaces ,Interior Designing as a Career,Design Process, Steps involved in Design Process, relationship between art ,design and interior spaces.

Module II
Elements of Design-
Line & types of lines, Points, Shapes, Size, Direction, Form, colour, Value, Space. Alteration of Elements of Design.

Module III
Basic Introduction to furniture Designing, human factors & anthropometry-
human body dimensions, ergonomics in interior, standard measurement for furniture. Isometric view for basic home furniture (bed, sofa, wardrobe, tv unit).

Module IV
Interior styles & concepts-
Classic (Traditional,Victorian) to modern (Mid-Century, Minimalist, Contemporary, Scandinavian, Japandi) and eclectic (Boho, Eclectic, Industrial, Farmhouse, Coastal, Art Deco) etc.

Module V

Dream Room Project-

User detail, design requirement, mood board, concept, plan, sectional elevation, flooring, ceiling, electrical, furniture details, material & finishes.

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.*

Semester - I			
Course Title	**Building Materials & Market Survey (Project)**	**Credits**	**4**
Course Code	**BSC DSC-007**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Studentsshall 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 materialsfor 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 bruck 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

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)*

Semester - I			
Course Title	**Architectural Drawing(Lab)**	**Credits:**	**2**
Course Code	**BSC DSC-008**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	To Understand and Use traditional drawing tools, such as pencils, pens, and paper to create professional-quality architectural drawings with different measurements.		PO5
CO2	Understand and apply the architectural design process, from concept development to construction documentation.		PO5
CO3	Communicate design ideas effectively through clear and concise graphical representations.		PO3
CO4	To understand detailed learning of different types of projection.		PO3
CO5	Students will learn about the different types of views and how to use them in displaying their work.		PO5

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

Module I:
Introduction to Architectural Drawing
Importance of architectural drawing in interior design.
Use of drawing tools & materials: sheets, pencils, scales, erasers, drafting instruments.
Composition of tools.
Basic drafting techniques & letterings.
Basic Study- Lines, Different types of Lines

Module II:Scales
Need for scaling in architecture & interior design.
Use of different types of scale in Architectural Drawing,
Unit Conversion
Standard building measurements & interior dimensions (doors, windows, furniture sizes)

Module III: Orthographic Projection
Introduction to projection methods
Plan (Top view), Elevation (Front/Side), Section (Cut view)
Line conventions & symbols (wall thickness, openings, levels)
Projection of points, Projection of Lines, Projection of inclined lines, Projection of Plane, Projection of Solid.

Module IV:View
Details of different types of views-Isometric vs Axonometric Views
Perspectives -One Point , Two point ,three point.

Introduction to the terms-Eye level, horizon line, vanishing points.
Difference between perspective & orthographic drawings

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

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*

Semester - I			
Course Title	**Introduction To Computers (Lab)**	**Credits:**	**2**
Course Code	**SEC 007**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	To understand the basic components of operating on menu and other tabs		PO 11
CO2	To Understand the MS Word and use in office documents		PO 11
CO3	To Understand the MS Excel and its use in office documents		PO 11
CO4	To present data using power pointing presentation		PO 11
CO5	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 andbecomefamiliarwithavarietyofcomputerapplications,includingword-processing,spreadsheets,databases,andmultimediapresentations.*

Module I: Overview of the working of a computer

Computer Components: Hardware & Software Basic concepts in stored program execution, input, output, storage devices, RAMs, ROM, etc History of computers and it emergence

Module II- 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 III– 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 IV – 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 slides, setting timing and transitions, running and controlling electronic slide show, Customizing Microsoft PowerPoint.

Module V
Introduction to Software, Implementation of Corel Draw in fashion designing and Introduction to Software, Implementation of Photoshop in fashion 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. *TheCorelDraw–wowlinesDayton*
5. *Photoshop element- Duke McCleaand*

Semester - I			
Course Title	**Basics Of Fashion Styling(Theory)**	**Credits**	**4**
Course Code	**GE 001**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Students will learn about role and responsibilities of fashion stylist. Fashion and new style techniques of different garments and will be able to introduce to today's fashion industry in a more creative way.		PO1
CO2	Students will gain knowledge about fashion terminology, new trends, Wardrobe planning and management using fashion styling.		PO1
CO3	Students will gain knowledge about costume, makeup, accessories and background and its impact on overall styling. for the fashion show		PO1
CO4	Students are made capable to apply their knowledge in identifying the trends of fashion also they are made capable to showcase their collections and design work through digital media.		PO1
CO5	Students get Skilled in hand art to express ideas on draping styling, styling techniques through mind mapping and visual research.		PO1

Objective: *The syllabus for a course in fashion styling typically covers various aspects of fashion, style, and aesthetics. Here's an outline of what such a syllabus might include:*

Module I-Introduction to Fashion Styling, Trends and Forecasting

- Overview of the fashion industry
- Role and responsibilities of a fashion stylist
- Understanding fashion cycles
- Analyzing current and past fashion trends
- Forecasting future trends

Module II– Fashion Styling Techniques, Textiles and Fabrics

- Wardrobe planning and management
- Mixing and matching garments and accessories
- Creating looks for different occasions (casual, formal, editorial, etc.)
- Understanding body types and selecting appropriate clothing
- Understanding different types of fabrics and their properties
- Fabric selection based on season and occasion
- Fabric care and maintenance

Module III – Personal Styling Editorial and Commercial Styling Fashion Show and Event Styling

- Personal style analysis
- Developing a personal style
- Wardrobe essentials and must-havesStyling for photo shoots and magazines
- Styling for fashion shows

- Behind-the-scenes of fashion events
- Coordination with designers and production teams

Module IV- Portfolio Development, Fashion Styling Tools and Software

- Building a professional styling portfolio
- Curating and showcasing your work
- Digital tools and software for fashion styling
- Creating look books and digital portfolios

Module V- Ethics and Final Project/Internship

- Practical application of styling techniques
- Real-world experience through internships or projects
- Presentation of a final styling project

Reference books

1. *Foundation in fashion design & Illustration*
2. *Figure drawing for fashion design*
3. *Fashion Design Illustration: Children*
4. *Professional Fashion Illustration*
5. *Fashion Design illustration: Men*

Semester - I			
Course Title	**Communication Skills(Theory)**	**Credits**	**2**
Course Code	**AEC 001**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	To enhance language proficiency by providing adequate exposure to reading and writing skills		PO 1,2,3
CO2	To orient the learners towards various communication tasks		PO 1,2,3
CO3	To increase the range of lexical resource through a variety of exercises		PO 1,2,3

Objectives:*To imbibe English and Listening, Speaking, Reading and Writing skills to meet the challenges of the world. To be able to process complex information with clarity and conciseness.*

ModuleI: Basics of Communication

- Communication:AnIntroduction
- DefinitionandScope
- ProcessofCommunicationBarriersto Communication
- Types of Communication

ModuleII:WritingSkills

- LetterWriting-FormalandInformal
- CV,Email,Message
- Minutes,ReportWriting
- Notice,Memoranda

ModuleIII:Reading Skills

- Types of Readings

Module IV: Listening Skills

- Effective listening
- Barriers to listening

Module V: Speaking Skills

- IntroductiontoSoftSkills
- PersonalityDevelopment
- TimeManagement/leadershipSkills

- Interviews/GroupDiscussion/PresentationSkills
- ShortSpeech

Note:Adequatepracticetobegiveninthe classtoimprovespeakingandwritingcompete nce

Textbookrecommended:

1. *Brown,Ralph:MakingBusinessWritingHappen:ASimpleandEffectiveGuidet oWritingWell.Sydney:Allenand Unwin,2004.*
2. *Buscemi,SantiandCharlotteSmith,75ReadingsPlus.SecondEditionNewYor k:McGraw-Hill, 1994.*
3. *MohanKrishna&Banerji,Meera:DevelopingCommunicationSkills.NewDel hi:MacmillanIndia, 1990.*

Semester - I			
Course Title	**Yoga and Human Consciousness (Theory)**	**Credits:**	**2**
Course Code	**VAC 001 T**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Students gain good knowledge on the concept of yoga.		Po 1
CO2	Students know about the scientific benefits of various yogic practices		Po 1,2
CO3	Students can perform practical skills proficiently		Po 4
CO4	Students gain an awareness about the value of health & wellness through yoga		Po 8,12
CO5	Makes the students more enthusiastic about further study/research in the field of Yoga		Po 2

Module I-
Introduction to Yoga:

- Meaning and definitions of Yoga
- History of Yoga
- Importance of Yoga as art, science and philosophy
- Yogic Diet

Module II-
Philosophical Perspective of Yoga:

- Yoga in Bhagavad Gita: Karma Yoga, Raja Yoga, Jnana Yoga and Bhakti Yoga
- The 'Yoga Sutras' in general; its significance in life.
- Limbs/parts of yoga (Astanga Yoga) according to the 'Yoga Sutras'
- Concept of Ishwara; Ishwara in Yoga Philosophy

Module III-
Yogic Practices for Health & Wellness:

- Asana, its classification and effects
- Pranayama, its types and effects
- Kriya, Mudra and Bhandha: Procedure and Effects
- Yoga Vs Physical Exercise

Human Consciousness & Meditation

- Meaning & Definition of Human Consciousness
- Need for Study of Human Consciousness
- Current Crisis of Human Consciousness & Measures for meaningful solution
- The Theory of Meditation- Japa Meditation, Ajapajapa Meditation, Yoga Nindra, Tratak.

Semester - I			
Course Title	**Yoga and Human Consciousness (Lab)**	**Credits:**	**2**
Course Code	**VAC 001 L**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Students gain good knowledge on the concept of yoga.		Po 1
CO2	Students know about the scientific benefits of various yogic practices		Po 1,2
CO3	Students can perform practical skills proficiently		Po 4
CO4	Students gain an awareness about the value of health & wellness through yoga		Po 8,12
CO5	Makes the students more enthusiastic about further study/research in the field of Yoga		Po 2

	Practical **1Credit(30hours)**	**30**	**15**
	i. Suryanamskara–(12counts) **ii. Asana** **a) Standing**: -Tadasana, Ardhakatichakrasana, Ardhachakrasana,Trikonasana,Vrikshasana. **b) Sitting:** - Vajrasana, Padmasana, Goumukhasana,Paschimottanasana,Shashanka sana. **c) LyingSupinePosition**:- Shavasana,Setubandhasana,Chakrasana,Sarvangas ana,Halasana. **d) Lying Prone Position** - Makarasana, Bhujangasana,Shalabhasana,Dhanurasana, Naukasana. **iii. Pranayama** Nadishodhana, Suryabhedana, Chandrabhedana, Shitali, Bhastrika,Bhramari. **iv. Bandh&Mudra** Jalandharabandha,Uddiyanbandha,Moolabandh		

	a,Yogamudra,Viparitkarnimudra,Shambhavimudra, **v. Dhyanaanditsforms**		
	ModesofAssessment(In -Semester): a) UnitTest b) Classseminarpresentation/Groupdiscussion c) SeasonalExamination(TheoryandPractical) d) Attendanceandregularity e) Observationrecordduringpractical		

ReferenceBooks:

- *HolisticApproachofYoga-G.Shankar:AdityaPublishers*
- *Patanjali's Yoga Sutra – Translation and Commentary-Dr.P.V. Karambelkar:Lonavla*
- *GuidelinestoYogicPractices–M.L.Gharote:Lonavla*
- *Yogaand IndianPhilosophy –KarelWerner:MotilalBanarsidass*
- *Yoga:ThePathtoHolisticHealth-B.K.S.Iyenger:DorlingKindersleyLimited*

Semester I			
Course Title	**Fundamentals of Entrepreneurship (Theory)**	**Credits**	**4**
Course Code	**GE 004**		
Learning Level			

Module I: The Entrepreneur

- **Unit 1.1:** Definitions and Concept of Entrepreneur, Entrepreneurial Traits, Characteristics and Skills
- **Unit 1.2:** Classification of Entrepreneurs, Growth and Nature of Entrepreneurs, Importance of Entrepreneurship
- **Unit 1.3:** Entrepreneurial Culture, Types of Entrepreneurs, Distinction between Entrepreneur and Manager

Module II: Entrepreneurship Concepts and Women Entrepreneurs

- **Unit 2.1:** Entrepreneurship: Concept, Theories, and Environmental Factors
- **Unit 2.2:** Entrepreneurship Development and Training
- **Unit 2.3:** Women Entrepreneurs: Concept, Functions, Growth, Problems Faced

Module III: Project Identification and Appraisal

- **Unit 3.1:** Project: Concept, Classification, and Search for Business Ideas
- **Unit 3.2:** Project Identification, Formulation, and Design
- **Unit 3.3:** Project Network Analysis, Report Preparation, and Project Appraisal

Module 4: Institutional Finance and Ownership Structures

- **Unit 4.1:** Institutional Finance: Role of Commercial Banks and Financial Institutions
- **Unit 4.2:** Institutional Support for Small Entrepreneurs
- **Unit 4.3:** Ownership Structures: Proprietorship, Partnership, Company, Cooperative – Selection Criteria

Module 5: Micro, Small & Medium Enterprises (MSME)

- **Unit 5.1:** Introduction to MSME: Classification and Registration
- **Unit 5.2:** Ministry of MSME: Government Policies, Start-up vs. MSME, Major Schemes
- **Unit 5.3:** PMEGP: Objectives, Benefits, Applicability; SRI Fund: Structure and Objectives; Steps to Start an MSME: Case Study

Text Books/Resources:

1. The Dynamics of Entrepreneurial Development and Management, Vasant Desai, Himalaya Publishing House, 6th edition, 2018.

Reference Books:

1. Entrepreneur Development, Satish Taneja, Himalaya Publishing House, 1st edition, 2015.

Semester I			
Course Title	**Business Organization (Theory)**	**Credits**	**4**
Course Code	**GE 007**		
Learning Level			

Module I: Introduction to Business and Organization

- **Unit 1.1:** Business: Meaning, Nature, Objectives, Social Responsibility
- **Unit 1.2:** Essentials of a Successful Business, Functional Areas of Business
- **Unit 1.3:** Concept of Business Organization

Module II: Forms of Private Sector Enterprises

- **Unit 2.1:** Sole Proprietorship: Meaning, Features, Merits and Demerits
- **Unit 2.2:** Partnership: Meaning, Features, Merits and Demerits
- **Unit 2.3:** Joint Stock Company: Meaning, Features, Merits and Demerits
- **Unit 2.4:** Co-operatives: Meaning, Features, Merits and Demerits

Module III: Government Departmental Undertakings

- **Unit 3.1:** Departmental Undertakings: Meaning, Features, Merits and Demerits

Module IV: Other Forms of Public Enterprises

- **Unit 4.1:** Public Corporations: Meaning, Features, Merits and Demerits
- **Unit 4.2:** Government Companies: Meaning, Features, Merits and Demerits

Module V: Business Combinations

- **Unit 5.1:** Business Combinations: Meaning, Reasons, and Types
- **Unit 5.2:** Forms, Merits, and Demerits of Business Combinations
- **Unit 5.3:** Recent Trends in Business Combinations

Text Books/Reference Books:

1. C. B. Gupta - Business Organization and Management, Sultan Chand & Sons.
2. Dr. S. C. Saxena - Business Administration & Management, Sahitya Bhawan.
3. M. C. Shukla - Business Organization and Management. S Chand & Company Pvt. Ltd.
4. S. A. Sherlekar - Business Organization, Himalaya Publishing House.
5. Y. K. Bhushan - Fundamentals of Business Organization and Management, Sultan Chand & Sons.
6. R. K. Sharma, Business Organization & Management Kalyani Publishers
7. Dr. I. M. Sahai, Dr. Padmakar Asthana, 'Business Organization & Administration', Sahitya Bhawan Publications Agra.

Semester I			
Course Title	**Fundamental Of Drawing (Theory)**	**Credits**	**4**
Course Code	**GE 006**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	To introduce students to essential sketching tools and techniques, emphasizing line, shape, and shading.		PO1,2,7
CO2	To develop skills in human anatomy and figure drawing with a focus on accurate proportions and gesture.		PO1,3,7
CO3	To teach students the principles of perspective and proportion for creating realistic depth in drawings.		PO2,4,7
CO4	To understand and apply color theory and composition to enhance visual impact in artwork.		PO3,5,7
CO5	To introduce storyboarding and camera angles for effective visual storytelling and scene planning.		PO4,6,7

Objective: *To equip students with fundamental skills in sketching, anatomy, perspective, color, and storyboarding for creating impactful and accurate artwork.*

Module I: Introduction to Drawing Materials and Line, Shape

Introduction to Drawing Material and Tools, Basic Sketching Techniques,Shading and Cross-Hatching,Drawing the Human Head,Lighting and Shading

Module II: Anatomy and Muscle Function

Drawing Hands and Feet, Full Figure Drawing, Facial Features: Eyes, Nose, Lips, Ears, Skeleton and Bone Structure, Study of Neck Muscles and Proportions

Module III: Perspective and Proportion

One-Point Perspective, Two-Point Perspective, Three-Point Perspective, Proportions of Human and Object, Drawing Objects from Various Angles

Module IV : Color Theory and Composition

Introduction to Color Theory, Psychology of Color, Color Harmony and Contrast, Hue, Saturation, Brightness, Warm and Cool Colors, Creating Color Palettes, Focal Points and Hierarchy

Module V : Introduction to Storyboarding & Camera Angles

Introduction to Storyboarding, Camera Angles Overview, Creating Effective Storyboards, Camera Angles and Scene Perception

Reference books:

1. *Perspective Made Easy (Dover Art Instruction) Paperback – 30 August 1999 by Ernest Norling (Author)*
2. *The Fundamentals of Drawing Paperback – 5 September 2003 by Barrington Barber (Author)*
3. Anatomy & Drawing Paperback – 1 December 2006 by Victor Perard (Author)

Semester I			
Course Title	**BASICS OF FASHION STYLING (Theory)**	**Credits**	**4**
Course Code	**GE001**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Students will learn about role and responsibilities of fashion stylist. Fashion and new style techniques of different garments and will be able to introduce to today's fashion industry in a more creative way.		PO1
CO2	Students will gain knowledge about fashion terminology, new trends, Wardrobe planning and management using fashion styling.		PO1
CO3	Students will gain knowledge about costume, makeup, accessories and background and its impact on overall styling. for the fashion show		PO1
CO4	Students are made capable to apply their knowledge in identifying the trends of fashion also they are made capable to showcase their collections and design work through digital media.		PO1
CO5	Students get Skilled in hand art to express ideas on draping styling, styling techniques through mind mapping and visual research.		PO1

Objective: *The syllabus for a course in fashion styling typically covers various aspects of fashion, style, and aesthetics. Here's an outline of what such a syllabus might include:*

Module I:Introduction to Fashion Styling, Trends and Forecasting

- Overview of the fashion industry
- Role and responsibilities of a fashion stylist
- Understanding fashion cycles
- Analyzing current and past fashion trends
- Forecasting future trends

Module II: Fashion Styling Techniques, Textiles and Fabrics

- Wardrobe planning and management
- Mixing and matching garments and accessories
- Creating looks for different occasions (casual, formal, editorial, etc.)
- Understanding body types and selecting appropriate clothing

- Understanding different types of fabrics and their properties
- Fabric selection based on season and occasion
- Fabric care and maintenance

Module III :Personal Styling Editorial and Commercial Styling Fashion Show and Event Styling

- Personal style analysis
- Developing a personal style
- Wardrobe essentials and must-haves styling for photo shoots and magazines
- Styling for fashion shows
- Behind-the-scenes of fashion events
- Coordination with designers and production teams

Module IV: Portfolio Development, Fashion Styling Tools and Software

- Building a professional styling portfolio
- Curating and showcasing your work
- Digital tools and software for fashion styling
- Creating look books and digital portfolios

Module V: Ethics and Final Project/Internship

- Practical application of styling techniques
- Real-world experience through internships or projects
- Presentation of a final styling project

Reference books

1. *Foundation in fashion design & Illustration*
2. *Figure drawing for fashion design*
3. *Fashion Design Illustration: Children*
4. *Professional Fashion Illustration*
5. *Fashion Design illustration: Men*

SEMESTER-II

Semester II			
Course Title	**Interior Design Studio & Market Survey – I (Lab)**	**Credits:**	**4**
Course Code	**BSC DSC-040**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Student will learn to apply basics principles of space planning in interior designing.		PO3
CO2	Student will learn Basic principles and elements of Design of a residential place & method of how to develop design from the scratch.		PO3
CO3	Student will learn about standard dimension of a residential planning in interior design through graphical representation		PO3
CO4	Student will understand & learn Selecting /listing material for the interior design work.		PO 2
CO5	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		PO2,3,9

Objective: *Assimilation of resolving design solution.*

Module I-

Design analysis research and programming with market survey-Client Profile & Requirement Analysis, Family size, lifestyle, preferences, cultural factors, Spatial needs for Living, Dining, Kitchen, Bedrooms, Toilets, Balconies.

Module II-

Site Analysis and Data collection - Site location, Climatic analysis, Sun path and wind direction Vastu considerations (if required), Anthropometry (Standard and dimension of furniture), Detail of materials and finishes, Public Survey and research

Module III-

Concept and Design Development -Prepare a mood board for designing residence, Develop concept for your design with market survey (use new products and finishes available in market)

Module IV-

Working drawing Layout and Planning – Furniture layout for designing 3 BHK Residence, Sectional Elevation with material and finishes, Ceiling layout, Electrical layout, Switch board details , Flooring and Interior Services

Module V-

Final Presentation of the Design Project (with Market Survey)- Prepare Presentation Boards A2 sheets (concept, plans, sections, 3D views) ,Walkthrough Presentation included Material Board + Cost Sheet Market Survey Summary and Final Portfolio Submission.

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*

Semester II			
Course Title	**Building Construction & Site Visit– I (Theory)**	**Credits:**	**2**
Course Code	**BSC DSC-041-T**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	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
CO2	The student will able to explain properties of building elements and prepare the construction drawings through conceptual and contextual approach.		PO 6
CO3	The student will able to explain principles of construction in mass buildings and use of the technical knowledge in project drawings.		PO3
CO4	Student will gain theoretical as well as practical knowledge of building construction & techniques.		PO3
CO5	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-
Substructure & Superstructure
Plinth, Walls, Floors, Roofs, Doors, Windows
Beams, Columns, Slabs (basic introduction)
Damp-Proof Course (DPC)
Finishes in interiors (brief: plastering, flooring, cladding
Types of Foundations- their function & importance.

Module II
Brick & stone masonry

- **Stone Masonry-**

Definition & use in buildings/interiors
Types: Random rubble, Ashlar masonry (varieties)
Tools used, joints, bonds & finishes
Stone cladding in interiors

- **Brick Masonry-**

Bricks: Types, standard sizes, properties
Bonds in brick masonry: English bond, Flemish bond
Joints: Mortar, thickness, pointing, plastering

Reinforced brick walls (simple intro)
Hollow block/bricks & their use in interiors.

Module III
Partitions-
Meaning & importance of internal partitions
Classification of partitions:Brick partitions(half brick walls)Glass partitions, Gypsum partitions, Wooden partitions, Aluminum & Steel framed partitions**,** Lightweight partitions (AAC block, PVC, MDF, HDF panels)
Acoustic partitions (basic concept)
Interior application based on function (office, residential, commercial)

Module IV
Arches-
Definition & purpose of arches
Components: Springing line, voussoirs, keystone, intrados, extrados, haunch, skewback
Classification of arches: Semi-circular, Segmental, Flat arch, Pointed/gothic arch, Horseshoe arch
Interior application of arches (openings, aesthetic features), Arch vs. Lintel (comparison)

Module V
Lintels &stairs
- **Lintels-**

Definition, purpose, span
Materials: RCC, brick, stone, timber, steel
RCC lintel section basics (bars & cover intro)
- **Stairs-**

Importance in interior space planning
Technical terms: Tread, Riser, Nosing, Pitch, Landing, Headroom, Handrail, Baluster, Flight
Types of stairs: Straight, Doglegged, Spiral, Helical, Open-well, Cantilevered
Ergonomic proportions (Rise:Run ratios, width standards)
Materials used in stairs (RCC, wood, steel, glass combo stairs)

Reference books

1. *Time Saver Standards – Building Types*
2. *Construction Technology – Vol 1-4*
3. *Balconies Exterior & Garage Doors*
4. *Building Materials & Construction*

Semester II			
Course Title	**Building Construction & Site Visit– I(Lab)**	**Credits**	**2**
Course Code	**BSC DSC-041-P**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	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
CO2	The student will able to explain properties of building elements and prepare the construction drawings through conceptual and contextual approach.		PO 6
CO3	The student will able to explain principles of construction in mass buildings and use of the technical knowledge in project drawings.		PO3
CO4	Student will gain theoretical as well as practical knowledge of building construction & techniques.		PO3
CO5	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-
Substructure & Superstructure
Plinth, Walls, Floors, Roofs, Doors, Windows
Beams, Columns, Slabs (basic introduction)
Damp-Proof Course (DPC)
Finishes in interiors (brief: plastering, flooring, cladding
Types of Foundations- their function & importance.

Module II
Brick & stone masonry

- **Stone Masonry-**

Definition & use in buildings/interiors
Types: Random rubble, Ashlar masonry (varieties)
Tools used, joints, bonds & finishes
Stone cladding in interiors

- **Brick Masonry-**

Bricks: Types, standard sizes, properties

Bonds in brick masonry: English bond, Flemish bond
Joints: Mortar, thickness, pointing, plastering
Reinforced brick walls (simple intro)
Hollow block/bricks & their use in interiors.

Module III
Partitions-
Meaning & importance of internal partitions
Classification of partitions:Brick partitions(half brick walls)Glass partitions, Gypsum partitions, Wooden partitions, Aluminum & Steel framed partitions**,** Lightweight partitions (AAC block, PVC, MDF, HDF panels)
Acoustic partitions (basic concept)
Interior application based on function (office, residential, commercial)

Module IV
Arches-
Definition & purpose of arches
Components: Springing line, voussoirs, keystone, intrados, extrados, haunch, skewback
Classification of arches: Semi-circular, Segmental, Flat arch, Pointed/gothic arch, Horseshoe arch
Interior application of arches (openings, aesthetic features), Arch vs. Lintel (comparison)

Module V
Lintels & stairs
- **Lintels-**

Definition, purpose, span
Materials: RCC, brick, stone, timber, steel
RCC lintel section basics (bars & cover intro)
- **Stairs-**

Importance in interior space planning
Technical terms: Tread, Riser, Nosing, Pitch, Landing, Headroom, Handrail, Baluster, Flight
Types of stairs: Straight, Doglegged, Spiral, Helical, Open-well, Cantilevered
Ergonomic proportions (Rise:Run ratios, width standards)
Materials used in stairs (RCC, wood, steel, glass combo stairs)

Reference books

1. *Time Saver Standards – Building Types*
2. *Construction Technology – Vol 1-4*
3. *Balconies Exterior & Garage Doors*
4. *Building Materials & Construction*

Semester II			
Course Title	**AutoCAD – 2D& 3D(Lab)**	**Credits**	**2**
Course Code	**BSC DSC-042**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Understand the basic interface and tools of AutoCAD 2D and 3D software.		PO 5,6
CO2	Create and edit basic 2D plans. Create and edit dimensions, text, and annotations.		PO 5,6
CO3	Use layers and linotypes to organize drawings. Create and edit floor plans, elevations, and sections.		PO 5
CO4	Create and modify 3D objects using AutoCAD. Apply materials and textures to 3D objects.		PO 5
CO5	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 – Introduction to AutoCAD
Overview of AutoCAD interface, workspace, command line usage, coordinate system, Units, limits, grid, ortho mode, snaps and object tracking, Basic drafting settings, templates, file management including creating, saving and organizing drawings.

Module II – Basic Drawing & Editing Tools
Line, polyline, spline, circle, arc, rectangle, polygon and ellipse, Modify commands such as move, copy, rotate, mirror, offset, trim, extend, fillet, chamfer and array, Selection methods, object snaps, tracking and precision drafting techniques.

Module III – Layers, Annotation & Documentation
Layer creation and management, color, linetype, lineweight controls, Object properties and match properties, Text styles, single-line & multi-line text, Dimension types and styles, Leaders, annotations, hatch patterns, gradient fills and table creation.

Module IV – 3D Modeling & Visualisation
Introduction to 3D workspace and UCS, Creating 3D objects using box, cylinder, sphere,

wedge, cone, torus, Extrude, revolve, sweep, loft,3D operations such as union, subtract and intersect,3D modify tools including rotate3D, align, mirror3D, Creating surfaces and meshes, Applying visual styles, materials and lighting, Basic rendering for interior & exterior views.

Module V – Complete Architectural & Interior Working Drawings
Preparation of full working drawing set including- Civil layout/working plan, Furniture plan, Interior planning drawings, Elevations & sectional drawings, Reflected Ceiling Plan (RCP), Electrical layout including lighting & switchboard plan, Flooring plan, Plumbing/sanitary layout basics, Door–window schedule, Material legend- Title block creation, sheet setup in paper space, viewports, plotting standards & final print-ready sheets. Final project submission including both 2D working drawings and 3D interior/exterior model.

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

Semester II			
Course Title	**Furniture Design & Joinery Details & Anthropometrics (Lab)**	**Credits:**	**2**
Course Code	**BSC DSC-043**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	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
CO2	Students will learn joinery details of wood and metal furniture as per latest trends		PO 2
CO3	Students will learn anthropometrics and techniques used behind designing furniture &Can produce/make a furniture or interior design product.		PO2,5
CO4	Student will gain the knowledge of the tools and materials which are used in furniture production.		PO 8,9
CO5	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-

Introduction to Furniture Design –Definition, scope & importance in interiors, History & evolution of furniture styles, Types of furniture: fixed, semi-fixed, movable, Design process for furniture (concept → prototype → final), Basics of form, function & aesthetics in furniture

Module II-

Anthropometry, Ergonomics & Standards-Human body dimensions and comfort, Ergonomic principles in furniture, Standard sizes for, Chairs & seating, Tables (dining, study, coffee),Beds, Storage (wardrobes, cabinets),Circulation & clearances around furniture, Universal & barrier-free furniture design basics

Module III-

Materials, Tools & Hardware –

Materials: solid wood, plywood, blockboard, MDF, particle board, metal, glass, stone, acrylic, laminates, upholstery materials such as foams, fabrics, leatherette, and sustainable materials. Tools & Machinery: carpentry hand tools, power tools including drill, sander, router, and workshop machinery such as panel saw, band

saw, edge bander, CNC. Hardware: hinges, screws, nails, brackets, drawer channels & runners, handles & knobs, and modular fittings like cam lock and connectors

Module IV- Joinery Details & Construction Techniques

Wood Joinery(Butt, lap, mortise & Tenon, Dovetail, finger joint, tongue & groove, Dowel & biscuit joints, Mitre & box joints,Mechanical Joinery, Hinges & pivots, Screws & metal fasteners, Knock-down fittings, Sliding joinery) Construction Details **(**Carcass construction, Shutter types (overlay, inset, framed),Drawer making & channel details, Edge finishing & surface treatments, Upholstery structure basics).

Module V--Final Product/Furniture design for residence

Seating- chair, sofa, stool Tables- dining, study, coffee Beds- platform, storage, hydraulic **Storage**- wardrobes, cabinets, kitchen units Modular furniture systems **Furniture Drawing & Detailing** Orthographic drawings- plan, elevation, section Joinery detail drawings Exploded views Material & hardware specification sheet Working drawings for execution Basic costing of furniture

Reference books:

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

Semester II			
Course Title	**General Hindi (Theory)**	**Credits**	**2**
Course Code	**AEC 005**		
Learning Level	**BTL**		**PO**
CO	**Course Outline**		
CO1	भाषाकौशलविकास: हिंदीभाषाकेअध्ययनसेछात्रोंकीपढ़ने, लिखने, सुननेऔरबोलनेकीक्षमतामेंसुधारहोताहै।		PO 7
CO2	साहित्यिकज्ञान: हिंदीअध्ययनसेछात्रोंकीरचनात्मकलेखनक्षमताविकसितहोतीहै, जिससेवेअपनेविचारोंकोनएऔरआकर्षकतरीकेसेप्रस्तुतकरसकतेहैं।		P0 7
CO3	सामाजिकजागरूकता: हिंदीअध्ययनसेसमाजमेंमौजूदविभिन्नमुद्दों, जैसेसमानता, न्याय, औरसामाजिकपरिवर्तन, परविचारकरनेकीक्षमताविकसितहोतीहै।		PO 7
CO4	संस्कृतिऔरपरंपरा: हिंदीभाषाकेअध्ययनसेभारतीयसंस्कृति, परंपराओंऔरइतिहासकीगहरीसमझमिलतीहै।		PO 7
CO5	व्याकरणऔरभाषासंरचना: छात्रोंकोहिंदीसाहित्यऔरभाषाकेविभिन्नपहलुओंपरअनुसंधानकरनेऔरविश्लेषणात्मकसोचविकसितकरने काअवसरमिलताहै।		PO 7

bdkbZ 1 % fgUnh Hkk'kk dh l ajpuk v½ o.k Z fopkj & 1- o.kZekyk 2- orZuh 3- laf/k c½ "kCn fopkj & "kCn Hksn & mRifRr ds vk/kkj ij] jpuk ds vk/kkj ij] izR;;] milxZ l½ okD; ds Hksn & 1- jpuk ds vk/kkj Ikj 2- vFkZ ds vk/kkj ij] 3- okD; "kqf)] dgkor s] o eqgkojs] fojke fpUgksa dk iz;ksxA

bdkÃ 2 % fgUnh dh i zeq[k i zfrfuf/k jpuk,i] v½ Hkkjrekrk ¼dfork½ & lqfe=kuanu iar] c½ cgqr cM+k loky ¼,dkadh½& eksgu jkds"k]

bdkbZ 3 % vu qokn izfof/k v½ vu qokn dk vFkZ] {k s= c½ fgUnh dh iz;kstuh;rk esa vuqokn dh Hkwfedk

bdkÃ 4 % fuca/k v½ izkS|ksfxdh ,oa uxjhdj.k & MkW- jke”kadj frokjhA c½ vk/kqfud rduhdh lH;rk& MkW- jke”kadj frokjhA l½ Ik;kZoj.k izn w’k.k rFkk /kkj.kh; fodkl& Mk W- pUnzys[kk j?kqoa”khA

bdkÃ 5 % dk;k Zy;hu i= ,oa vkys[k v½ dk;kZy;hu i= ,oa vky s[k&ifji=] vkn s”k] vf/klwpuk c½ Kkiu& vuqLekjd] i`’Bkadu

दिग्दर्शनपुस्तक:

1- Hkkjrekrk & lqfe=ku anu iar

2- cgqr cM+k loky & eksgu jkds”k 3-

fgUnh “kCn lkxj& MkW- fd”kksjhnkl cktis;h

4- fgUnh dk O;kdjf.kd v/;;u& vkpk; Z fo”oukFk izlkn feJ

5- Hkk’kk vkSj lkfgR;& Mk W- gtkjhizlkn f}osnh

6- fgUnh Hkk’kk% lajpuk ,oa iz;ksx & l quhrk feJk

Semester II			
Course Title	**Product Design & Display in Exhibition -I**	**Credits**	**2**
Course Code	**SEC 018**		
Learning Level	**BTL**		**PO**
CO	**Course Outline**		
CO1	Student learnt hands-on experimentation, exploration of materials, model making and prototyping with various materials.		PO2
CO2	To bring their projects to life, from model making to full-size construction of products and interior decoration elements.		PO2
CO3	To understand the value and process of product design		PO2
CO4	To explore various methods in problem identification		PO1
CO5	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.

Semester II			
Course Title	**Basics of Vastu**	**Credits**	**4**
Course Code	**GE 011**		
Learning Level	**BTL**		**PO**
CO	**Course Outline**		
CO1	Define and explain core concepts, history, and objective.		PO6
CO2	Design and arrange space following Vastu principles.		PO10
CO3	Provide Vastu tips and recommendations for various commercial establishments.		PO7
CO4	Evaluate and apply Vastushastra principles to real-world residential and commercial projects.		PO7
CO5	Apply Vastushastra principles to contemporary design practices.		PO10

Objective:*To equip students with a comprehensive understanding of Vastushastra principles and their practical applications in residential and commercial settings, enabling them to analyze and design spaces that promote harmony, balance, and prosperity.*

Module I: Introduction

Definition, Objective, History and Origin of Vastushastra, Principle of Vastushastra, Scientific Reasons, Elements of Vastushastra, Directions of Vastu, Magnetic Compass, Vastupurush

Module II: Residential Vastu

Positive Entrances, Area Analysis, Site Layout in Accordance with Vastu Principles, Furniture Arrangement Following Vastu Principles in different spaces of Residential Vastu, Colors and Basic Landscaping.

Module III: Commercial Vastu

Selection of spaces, Vastu tips for Business, Furniture Arrangement Following Vastu Principles - Commercial Complex, Office, Hospitals, Shop/Showroom, Institution, Marriage Halls, Movie Halls, Beauty Parlour.

Module IV: Vastu Tips and Vastu Products

Vastu Pyramid, Vastu Yantra, Vastu Energy Plate, Vastu Gem Stone, Vastu Crystal.

Module V: Case Studies

Residential and Commercial Vastu

Reference books:

1. *Vastu: Science for 21st Century* (by B. B. Puri)
2. *Secrets of Vastushastra* (by N. H. Sahasrabudhe)

Semester II			
Course Title	**Ancient History of Design (Theory)**	**Credits:**	**2**
Course Code	**VAC 005**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	To understand the evolution of art in interiors during the prehistoric period through research and documentation.		PO 8
CO2	To understand the different traditional contemporary art form with different tools and techniques		PO 3
CO3	To explore & understand the different elements and accessories in historic interiors through research and graphical representation.		PO 3,8
CO4	To understand the spatial scale in Buddhist, Islamic and Hindu art forms enhancing logical thinking		PO7
CO5	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

Chinese Civilization-

Origin & major dynasties influencing design (Xia, Shang, Zhou, Qin, Han, Ming, Qing)
Architectural philosophy: Harmony, Feng Shui, Yin–Yang principles
Spatial planning concepts: Courtyard houses (Siheyuan), Symmetry & axial planning
Decorative styles: Dragons, clouds, lotus, phoenix, calligraphy patterns

History of Chinese Antique Furniture-

Materials**:** Rosewood, Bamboo, Lacquered wood, Porcelain inlay
Joinery Technique**:** Mortise & Tenon (no nails concept)
Types of traditional furniture:
Yoke-back chair, Horseshoe-back chair, Ming dynasty tables & stools, Screen dividers, Altar tables, Decorative cabinets.
Characteristics: Minimalistic structure, Curved edges, carving, lacquer work, Metal fittings, Jade/ivory inlay

Module II

Egyptian civilization, Egyptian furniture

Egyptian Civilization-

Evolution of architecture: Old, Middle & New Kingdoms
Temple architecture (Pylon, Hypostyle halls, Hieroglyphics)
Interior elements: Relief wall murals, Gold plating, Stone flooring

Egyptian Furniture-

Materials: Ebony, Cedar wood, Ivory, Gold, Animal hide

Types:Stools with animal legs, Throne chairs with gold inlay, Beds with woven leather straps, Storage chests & shrines

Features:Goose-neck legs, claw feet, Bright colors & inlay (lapis lazuli, turquoise), Use of geometry & symmetry

Module III

Classical period – Greek period, Roman Period

Greek Period

Orders of architecture: Doric, Ionic, Corinthian

Building typology: Temples, Agoras, Theatres

Furniture features:Klismos chair (curved legs), Diphros stools, Kline beds

Motifs: Meander (Greek key), Acanthus leaf, Waves

Roman Period-

Innovations: Domes, Arches, Vaults, Aqueducts

*Interior advancements:*Mosaic flooring, Fresco wall paintings, Hypocaust (heating system)

*Furniture:*Roman couch (Lectus), Curule chair, Wooden cabinetry

Materials: Marble, Bronze, Iron work

Module IV

Mughal Architecture – Akbar, Jahangir, Shahjahan

Akbar Period (1556–1605)-

Indo-Islamic fusion style

Material: Red sandstone + marble inlay

Key forms: Bulbous domes, Jharokhas, Chhatris

Example: Fatehpur Sikri, Agra Fort

Jahangir Period (1605–1627)-

More decorative & artistic refinement

Floral motifs & Pietra-Dura (stone inlay)

Emphasis on paintings and miniature art

Shahjahan Period (1628–1658)-

Peak of Mughal aesthetics

Material: White marble dominance

Taj Mahal, Red Fort, Jama Masjid

Ornamentation: Calligraphy, Carved lattice (Jaali work)

Module V

Biography of famous Interior Designers.

Designer	Contribution
Elsie de Wolfe-	First professional interior decorator, feminine interiors
Charles & Ray Eames-	Modern furniture pioneers; molded plywood chairs
Le Corbusier-	Modern architecture, LC furniture series (LC1, LC2, LC4)
Frank Lloyd Wright-	Organic architecture, built-in furniture

Designer	Contribution
Zaha Hadid-	Futuristic, fluid architectural & interior forms
Geoffrey Bawa-	Tropical modernism, indoor–outdoor fusion
Sabyasachi (India- modern)-	Traditional Indian textiles in interiors

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.*
5. *Leland M Roth; Understanding Architecture: Its elements, history and meaning; Craftsman House; 1994.*
6. *ChristoperTadgell, The History of Architecture in India from the Dawn of civilization to the End of the Raj, Longmon 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.*

Semester II			
Course Title	**Stress Management (Theory)**	**Credits**	**2**
Course Code	**GE-**		
Learning Level	**BTL**		

MODULE I: Learning About Sources of Stress and its Symptoms

- The Nature of Stress: Understanding its Definition and Characteristics
- Environmental Sources of Stress: Noise, Pollution, and Crowding
- Social Stressors: Family, Workplace, and Peer Pressure
- Physiological Stress: Impact of Lifestyle and Health Factors
- Psychological Stress: Anxiety, Depression, and Negative Thinking
- How Stress Affects Emotional Wellbeing
- Physiological Symptoms of Stress: Effects on the Nervous and Endocrine Systems
- Behavioral Changes Due to Stress: Eating Habits, Sleep Patterns, and Substance Use
- Case Study: Identifying and Analysing Stress Symptoms in Daily Life
- The Role of Technology and Social Media in Stress Generation

MODULE II: Stress and Health

- The Relationship Between Stress and Chronic Illnesses
- Stress and Mental Health Disorders: Depression, Anxiety, and PTSD
- Eustress vs. Distress: Understanding Positive and Negative Stress
- Impact of Stress on the Immune System
- Workplace Stress and its Effects on Employee Health
- Stress and Sleep: The Vicious Cycle of Insomnia and Anxiety
- How Stress Affects the Cardiovascular System
- The Connection Between Stress and Eating Disorders
- The Role of Cortisol in Stress and Health Issues
- Coping with Stress in Students: A Survey-Based Analysis

MODULE III: Managing Stress-I (Methods)

- Yoga as a Stress Management Technique: Benefits and Practices
- The Science Behind Meditation and Its Effects on Stress Reduction
- Mindfulness-Based Stress Reduction (MBSR) and its Application
- Relaxation Techniques: Deep Breathing, Progressive Muscle Relaxation, and Visualization

- How Physical Exercise Helps in Stress Management
- Music Therapy and Its Role in Reducing Stress
- Aromatherapy: Can Scents Help Reduce Stress?
- Comparing Meditation and Yoga: Which is More Effective for Stress Relief?
- Art Therapy and Its Role in Emotional Stress Management
- The Impact of Laughter Therapy on Stress Reduction

MODULE IV: Managing Stress-II (Approaches)

- Problem-Focused Coping: Strategies and Effectiveness
- Emotion-Focused Coping: Managing Feelings and Reactions to Stress
- Time Management as a Tool for Stress Reduction
- Journaling for Stress Management: Expressive Writing Techniques
- Cognitive Behavioral Therapy (CBT) for Stress Reduction
- Social Support Systems and Their Role in Coping with Stress
- Work-Life Balance: Strategies to Reduce Occupational Stress
- The Role of Positive Thinking and Affirmations in Stress Management
- How Hobbies and Leisure Activities Help in Coping with Stress
- Developing a Personalized Stress Management Plan: A Step-by-Step Guide

Text Books/ Reference Books:

1. Barlow, Rapee, and Perini(2014), 10 Steps to Mastering Stress: A Lifestyle Approach, USA 2. Dutta, P,K, (2010) Stress management Himalaya, Himalaya Publishing House

3. Lee, K. (2014). Reset: Make the Most of Your Stress: Your 24-7 Plan for Well-being. Universe Publishing.

4. Roy,S (2012) Managing stress, Sterling Publication

Semester II			
Course Title	**C.G. ki Janjatiya Sanskriti (Theory)**	**Credits**	**2**
Course Code	**GE-**		
Learning Level	**BTL**		

Unit-1 : Tribes of Chhattisgarh

Unit-2: Tribal Development

Unit-3: Tribal Social Organization

Unit-4: Chhattisgarh : Costume, Ornaments,Instrument,Vyanjan.

Unit-5 : Chhattisgarh: Folkart and Culture.

REFERENCE BOOKS :

1. Chhattisgrah Tribes and Culture by Bishnu Mohan Panda

2. Culture of Chhattisgarh by Vinod Verma

Semester II			
Course Title	**Emerging IT Technology for Professionals (Theory)**	**Credits**	**2**
Course Code	**GE-**		
Learning Level	**BTL**		

Module I: Information and Communication Technology (ICT)

Introduction to ICT
ICT Infrastructure
Emerging trends – AI, ML, DL, LLM, ChatGPT

Module II: Application of AI and ML in Education

Introduction AI and ML in Education
AI for Personalized Learning
AI in Administrative Tasks

Module III: Application of AI and ML in Healthcare

Introduction to AI and ML in Healthcare
AI in Diagnostics and Treatment
AI in Healthcare Administration

Module IV: Application of AI and ML in Business

Introduction to AI and ML in Business
AI for Business Process Optimization
Challenges and Future Trends in AI for Business

Module V: Application of AI and ML in Agriculture

AI for Precision Agriculture
AI in Livestock Management
Environmental and Economic Impacts of AI in Agriculture

References

1. UNESCO. *ICT in Education: Policy, Infrastructure and OER*, 2013.
2. Turban, E., &Volonino, L. *Information Technology for Management*, Wiley, 2015.
3. Holmes, W., Bialik, M., &Fadel, C. *Artificial Intelligence in Education*, 2019.
4. UNESCO. *AI and Education: Guidance for Policy Makers*, 2021.
5. Rajkomar, A., Dean, J., &Kohane, I. “Machine Learning in Medicine,” *New England Journal of Medicine*, 2019.
6. Esteva, A. et al. “Dermatologist-level Classification of Skin Cancer,” *Nature*, 2017.
7. Agrawal, A., Gans, J., & Goldfarb, A. *Prediction Machines: The Simple Economics of Artificial Intelligence*, 2018.
8. Davenport, T. H., &Ronanki, R. “Artificial Intelligence for the Real World,” *Harvard Business Review*, 2018.
9. Liakos, K. G. et al. “Machine Learning in Agriculture: A Review,” *Sensors*, 2018.
10. Sharma, R. et al. *Artificial Intelligence in Agriculture*, Springer, 2020.

SEMESTER -III

Semester -III			
Course Title	**Interior Design Studio & Market Survey – II (Lab)**	**Credits:**	**4**
Course Code	**BSC DSC- 307**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	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
CO2	To understand the spatial and stylistic qualities associated with design and creativity in interiors.		PO 1,6
CO3	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

Design analysis research & Data collection -Client Profile & Requirement Analysis- Restaurant occupancy, space requirement. Data collection of the requirement. Restaurant - different types of restaurants, the elements of restaurants, space & layout.Bar- types, the elements of bar, space & layout.

Module II

Case Study &Site Analysis- Site location, Climatic analysis, Sun path and wind direction, Vastu considerations (if required), Anthropometry (Standard and dimension of furniture), Detail of materials and finishes, Public Survey and research

Module III

Concept and Design Development -Prepare a mood board for designing restaurant & bar, Develop concept for your design with market survey (use new products and finishes available in market)

Module IV

Working drawing Layout and Planning – Furniture layout for restaurant & bar area, Sectional Elevation with material and finishes, Ceiling layout ,Electrical layout ,Switch board details , Flooring and Interior Services.

Module V

Final Presentation of the Design Project (with Market Survey& case study)- Prepare Presentation Boards A2/A3 sheets (concept, plans, sections, 3D views) ,Walkthrough Presentation included Material Board + Cost Sheet Market Survey Summary and Final Portfolio Submission.

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. *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*

Semester -III			
Course Title	**Building Construction & Site Visit– II (Theory)**	**Credits:**	**2**
Course Code	**BSC DSC- 308 T**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
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

Doors-

Classification based on:
Operation: hinged, sliding, folding, pivoted, rolling shutter, automatic doors
Materials: wood, steel, aluminum, UPVC, glass doors
Style/Design: panelled, flush, framed & battened, louvered doors
Door components: frame, shutter, sill, architrave, threshold, hardware (hinges, locks, handles)
Fire-rated doors (intro)

Windows-

Types: casement, sliding, fixed, pivoted, bay, bow, sash windows, clerestory windows
Material choices: aluminum, UPVC, timber, steel, glass
Window glazing types: double glazing, insulated glazing, laminated glass

Ventilators-

Louvred ventilator, top-hung ventilator, exhaust fan opening
Mechanical vs natural ventilation principles

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

False Ceiling-

Purpose: acoustic control, insulation, concealing services, aesthetics
Materials & Systems: POP (Plaster of Paris), Gypsum board & metal framework, PVC, metal ceilings, wooden panels, Acoustic ceilings (mineral fibre, fabric panel)
Grid system, suspension details, lighting integration

Painting & Surface Finishes-

Paint types: distemper, emulsion, enamel, synthetic paints
Surface preparation: putty, primer, sanding, coating sequence
Varnishing: types (oil, spirit, synthetic); on wood surfaces
White washing & Distempering: process, ingredients, application techniques

Module III

Floors and flooring.

Floor components: base, bedding, topping, surface finish
Types of flooring:

- Hard Flooring:marble, granite, tiles, terrazzo, stone
- Soft Flooring:vinyl, linoleum, carpet, cork, rubber flooring
- Wooden Flooring:solid wood boards, engineered wood, laminate
- Industrial/External Flooring: concrete, paver blocks

Installation techniques for tiles, wood, & carpet flooring
Skirting, expansion joints, anti-skid surfaces, acoustic flooring basics

Module IV

Roofs, roof coverings, pointing and plastering

Roofs & Roof Coverings-

Types- Flat roof (RCC slab), Pitched roof: gable, hip, lean-to shed, Shell & dome roof (intro)
Roof coverings- Tiles (Mangalore tiles), sheet roofing (GI, aluminium), shingles, waterproof membranes
Waterproofing techniques: bitumen, membrane, liquid chemical coating

Pointing & Plastering-

Purpose & materials
Pointing: Flush, recessed, struck, keyed, V-groove pointing
Plastering types & finishes:Lime plaster, cement plaster, gypsum plaster, Textured plaster, POP finish
Defects in plastering: cracks, blistering, peeling

Module V

Ventilation & Air conditioning

Ventilation-

Importance in interiors: humidity control, IAQ (Indoor Air Quality)
Types: Natural & Artificial ventilation
Principles: stack effect, cross ventilation, wind movement
Passive cooling elements: jaalis, courtyards, shading devices

Air Conditioning-

Types: Window AC, Split AC, Centralized HVAC, VRV/VRF systems
Components: Compressor, condenser, evaporator, ducts, diffusers

Placement considerations for interior design: false ceiling integration, duct routing, noise & vibration concerns

Smart ventilation/air purification systems (HEPA filter – introduction)

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)*

Semester -III			
Course Title	**Building Construction & Site Visit– II(Lab)**	**Credits:**	**2**
Course Code	**BSC DSC- 309-P**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
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

Doors-

Classification based on:
Operation: hinged, sliding, folding, pivoted, rolling shutter, automatic doors
Materials: wood, steel, aluminum, UPVC, glass doors
Style/Design: panelled, flush, framed & battened, louvered doors
Door components: frame, shutter, sill, architrave, threshold, hardware (hinges, locks, handles)
Fire-rated doors (intro)

Windows-

Types: casement, sliding, fixed, pivoted, bay, bow, sash windows, clerestory windows
Material choices: aluminum, UPVC, timber, steel, glass
Window glazing types: double glazing, insulated glazing, laminated glass

Ventilators-

Louvred ventilator, top-hung ventilator, exhaust fan opening
Mechanical vs natural ventilation principles

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

False Ceiling-

Purpose: acoustic control, insulation, concealing services, aesthetics
Materials & Systems: POP (Plaster of Paris), Gypsum board & metal framework, PVC, metal ceilings, wooden panels, Acoustic ceilings (mineral fibre, fabric panel)
Grid system, suspension details, lighting integration

Painting & Surface Finishes-

Paint types: distemper, emulsion, enamel, synthetic paints
Surface preparation: putty, primer, sanding, coating sequence
Varnishing: types (oil, spirit, synthetic); on wood surfaces
White washing & Distempering: process, ingredients, application techniques

Module III

Floors and flooring.

Floor components: base, bedding, topping, surface finish
Types of flooring:

- Hard Flooring:marble, granite, tiles, terrazzo, stone
- Soft Flooring:vinyl, linoleum, carpet, cork, rubber flooring
- Wooden Flooring:solid wood boards, engineered wood, laminate
- Industrial/External Flooring: concrete, paver blocks

Installation techniques for tiles, wood, & carpet flooring
Skirting, expansion joints, anti-skid surfaces, acoustic flooring basics

Module IV

Roofs, roof coverings, pointing and plastering

Roofs & Roof Coverings-

Types- Flat roof (RCC slab), Pitched roof: gable, hip, lean-to shed, Shell & dome roof (intro)
Roof coverings- Tiles (Mangalore tiles), sheet roofing (GI, aluminium), shingles, waterproof membranes
Waterproofing techniques: bitumen, membrane, liquid chemical coating

Pointing & Plastering-

Purpose & materials
Pointing: Flush, recessed, struck, keyed, V-groove pointing
Plastering types & finishes:Lime plaster, cement plaster, gypsum plaster, Textured plaster, POP finish
Defects in plastering: cracks, blistering, peeling

Module V

Ventilation & Air conditioning

Ventilation-

Importance in interiors: humidity control, IAQ (Indoor Air Quality)
Types: Natural & Artificial ventilation
Principles: stack effect, cross ventilation, wind movement
Passive cooling elements: jaalis, courtyards, shading devices

Air Conditioning-

Types: Window AC, Split AC, Centralized HVAC, VRV/VRF systems
Components: Compressor, condenser, evaporator, ducts, diffusers

Placement considerations for interior design: false ceiling integration, duct routing, noise & vibration concerns
Smart ventilation/air purification systems (HEPA filter – introduction)

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)*

Semester -III			
Course Title	**Estimation & Costing (Theory)**	**Credits:**	**2**
Course Code	**BSC DSC- 310**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	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
CO2	Gain knowledge about how to schedule & estimate different construction works both manually and using software.		PO 5
CO3	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
CO4	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
CO5	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-

Introductionto Estimation & Costing

Importance & scope of estimation in interior design, Types of estimates: Approximate, Detailed, Revised, Supplementary, Basic terminology-quantity, rate, BOQ, overheads, wastage, Measurement units and conventions used in interiors, Cost classification- material cost, labor cost, installation cost ,Market rate study – purpose & process.

Module II-

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

Module III-

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.

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-

Interior Project Estimation – BOQ & Final Report

Preparing a complete detailed estimate for a given interior design project, Preparing BOQ with item description, quantity, rate, amount, Market survey for material pricing, Preparing cost summary (material + labour + contingencies + profit), Creating final project costingsheet, Preparing estimation report with drawings (plans, elevations, sections),Final presentation of estimation & costing project

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 (DhanpatRai Publications)
7. A Textbook of Estimating and Costing – Kohli&Kohli (S. Chand)

Semester -III			
Course Title	**Services & Market Survey –I (Project)**	**Credits:**	**2**
Course Code	**BSC DSC- 311**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Students will learn about the various basic products for building services and its implementation.		PO 6,8
CO2	Students will learn New trends and concepts of building services are also understood with the help of market study & site visit		PO 6,8
CO3	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
CO4	Student will understand about plumbing systems in residential & commercial spaces.		PO 6,8
CO5	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.

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 Manual of water supply & treatment, 2nd edition, CPHEEO, Ministry of works and housing, New Delhi 1977

Semester -III			
Course Title	**Home Furnishing**	**Credits:**	**4**
Course Code	GE 302		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Students will gain comprehensive knowledge about furnishing fabrics and materials.		PO 1.2
CO2	Understand the technical and decorative uses of furnishings in residential interiors.		PO 3,10
CO3	Develop skills in coordinating colors, patterns, and textures for various spaces.		PO 3,10
CO4	Learn practical aspects like budgeting, selection, and sourcing of furnishings.		PO7,9
CO5	Understand sustainable practices and eco-friendly furnishing options.		PO4.8

Objective: *What is the importance of home furnishing in Interior Design profession and what it should be?*

Module I

Introduction to Home Furnishings

Definition and scope of home furnishings.
Classification of furnishings: soft & hard furnishings.
Historical evolution of home furnishing styles.
Types of furnishings: functional vs decorative.
Importance in residential interior design.

Module II

Fabric Fundamentals & Materials.

Classification of fibers: natural, synthetic, blends.
Types of fabrics: cotton, silk, polyester, linen, wool, jute, velvet.
Fabric construction: weave types (plain, twill, satin, jacquard)
Fabric properties: durability, texture, drapability, breathability.
Textile finishes: stain resistance, flame retardance, anti-pilling, etc.

Module III

Application of Furnishings in Interiors.

Window Treatments: curtains, blinds, draperies – types, fittings, pleating styles.
Upholstery: fabric choices, cushioning types, re-upholstery techniques.
Bed Linen: bedspreads, pillow covers, duvets, bolsters.
Cushions and Throws: styling, layering, placement techniques.

Table Linen: runners, napkins, placemats.
Floor Furnishings: rugs, carpets, mats – types, materials, underlay's.
Wall Hangings & Tapestries: decorative use of textiles on walls.

Module IV
Design Principles in Home Furnishings.

Design Principles in Home Furnishings.
Color theory application in furnishings.
Coordination of patterns, textures, and themes.
Selection based on interior styles: modern, traditional, eclectic, boho, vintage.
Seasonal furnishing – styling for summer, winter, festive occasions.
Zoning and visual balance using soft furnishings.

Module V
Market Trends & Sustainable Practices.
Major furnishing brands and current market trends.
Sustainable and ethical textiles: organic cotton, bamboo, hemp, khadi.
Waste reduction and upcycling of home furnishings.
Introduction to smart textiles and multifunctional fabrics.

Reference books

1. Gates, Dorothy – Soft Furnishings
2. Rowe, T. – Interior Textiles: Design and Developments
3. Deborah Newton – Designing and Sewing Home Decor
4. Journals: Textile View, Home Fashion Forecast
5. Catalogs and brochures from brands like D'Decor, Raymond, Fabindia, Ikea, Bombay Dyeing

Semester -III			
Course Title	**Professional Communication & Presentation skills(Theory)**	**Credits**	**2**
Course Code	**AEC 306**		
Learning Level	**BTL**		**PO**
CO	**Course Outline**		
CO1	Demonstrate clear and confident communication in professional settings		PO1,5
CO2	Deliver impactful presentations using appropriate digital tools		PO3,7
CO3	Draft professional emails, resumes, and reports		PO1,2
CO4	Interact effectively in group discussions, interviews, and client meetings		PO2,5
CO5	Present fashion portfolios with confidence and industry relevance		PO4,7

Objective:

1. *To develop effective verbal and non-verbal communication skills for the fashion industry.*
2. *To train students in professional presentations with emphasis on industry-specific standards.*
3. *To enhance soft skills including confidence, etiquette, listening, and articulation.*
4. *To integrate digital tools in communication and portfolio presentation.*
5. *To foster entrepreneurial, collaborative, and global communication competency.*

Module I: Business Communication

- What is business communication?
- Why is business communication important in fashion industry?
- What are the four types of business communication?
- Key business communication skills & significance.
- Importance of communication in fashion business.
- How to improve skills for business communication?
- How to highlight business communication abilities?

Module II: Role of communication in fashion careers

- Business Communication vs. Business Communication Services.
- Which business communication services does my business need?
- Problems that effective business communication can solve.
- 5 Steps to set up your business communication process.
- Business Communication Channels.
- Company success through communication.
- Ready to improve your business communication?
- Effective business communication for workplace success.

- Effective Business Communication Techniques.
- 5 proven methods for boosting employee morale.

Module III: Presentation Skills & Public Speaking

- Components of effective presentation.
- Voice modulation, stage presence and storytelling.
- Use of PowerPoint / Canva / Prezi for fashion presentations.
- Pitching fashion ideas or collections.

Module IV: Business & Industry Communication

- Client communication & customer handling.
- Professional etiquette & ethics in workplace.
- Interview preparation and group discussions.
- Conducting and attending meetings

Module V: Portfolio & Visual Presentation

- Cover Letter writing for fashion industry.
- Professional e-mails & memos.
- Writing proposals, reports & press releases.
- Social media writing (Instagram captions, look book blurbs, etc.)
- Fashion portfolio layout and communication.
- Preparing for exhibitions & fashion shows.
- Digital portfolio presentation.
- Brand pitching & promotional presentation skills.

Reference books

1. *Business Communication by Meenakshi Raman & Prakash Singh*
2. *Personality Development and Soft Skills by Barun Mitra*
3. *Fashion magazines (e.g., Vogue Business, WWD) for industry trends*
4. *Online tools: Canva, Prezi, Google Slides, Trello*

Semester -III			
Course Title	**Digital Fabrication& Google Sketch Up(Lab)**	**Credits**	**2**
Course Code	**VAC 309**		
Learning Level	**BTL**		**PO**
CO	**Course Outline**		
CO1	Navigate the SketchUp interface and apply basic tools to create accurate 2D geometry.		PO 1,2,3
CO2	Utilize the Push/Pull, Follow Me, and component tools to transform 2D drawings into intricate 3D models.		PO 2,3
CO3	Prepare and export 3D models into suitable file formats (.STL , .DXF) for a range of digital fabrication processes, including 3D printing and CNC milling.		PO 3
CO4	Analyze and resolve common modelling errors, such as non-manifold or "sticky" geometry, to ensure a successful fabrication outcome.		PO 3
CO5	Design, prototype, and refine a tangible object using the end-to-end digital fabrication workflow, from conceptualization in SketchUp to final production.		PO 2, 3

Objective:*The objectives of a course titled "Digital Fabrication & Google SketchUp (Lab)" that follows the modules and uses the reference books you listed would generally be to develop practical skills in computer-aided design (CAD) for both 2D and 3D applications, and to learn how to prepare those digital models for physical creation using digital fabrication methods.*

Module 1: Foundational 2D Drafting

AutoCAD basics, Drawing tools, Modification tools, Precision tools, Layers and blocks,

Module 2: Converting 2D to 3D

Workspace and navigation, preparing 2D geometry, Extrude and Press pull, Boolean operations.

Module 3: Prepping Models for Fabrication

Model integrity, File export for 3D printing, File export for CNC and laser cutting, Material considerations, Final fabrication project.

Module 4: SketchUp fundamentals and 2D drafting

Creating 2D geometry, Creating precision,

Module 5: Converting 2D to 3D and simple components

Push/Pull, Follow Me and Offset, Components and the 3D Warehouse,

Editing 3D objects

Reference Books:

1. *Practical Autodesk AutoCAD 2023 and AutoCAD LT 2023* by Yasser Shoukry and Jaiprakash Pandey.
2. *p and Running with AutoCAD 2022: 2D and 3D Drawing, Design and Modeling* by Robert C. Kaebisch and Elliot J. Gindis
3. *Technical Drawing 101 with AutoCAD 2023: A Multidisciplinary Guide to Drafting Theory and Practice with Video Instruction* by Ashleigh Congdon-Fuller, Antonio Ramirez, and Douglas Smith
4. *Fabricating For Dummies* by Kip Hanson
5. *Metal Fabrication Technology* by Syamal Mukherjee
6. *SketchUp for Dummies* by Bill Fane, Mark Harrison, and Josh Reilly
7. *3D Printing with SketchUp* by Aaron Dietzen.

Semester -III			
Course Title	**Interior Photography (Project)**	**Credits:**	**2**
Course Code	**SEC 302**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	To understand the rules of photography for interior product and project		PO 2,6
CO2	To explain the definitions in photography and use of cameras for product photo shoot		PO 2,6
CO3	To understand lighting in photography for product photo shoot		PO 2,6
CO4	To explore the role of color in picture realization of product and accessories		PO 2,6
CO5	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

Foundations of Photography, Photography and Light-History of photography, why to photograph, Camera basics, DSLR/Mirrorless differences, ergonomics, shutter button, Must-have camera accessories, Sensor size, Lenses-wide angle, telephoto, macro, ISO, Shutter speed, White balance & settings, Aperture, Understanding exposure-shutter, aperture, ISO, Camera modes, Metering & metering modes, Autofocus & manual focus, Composition.

Module II
Introduction – Colour concept – light effects – focusing (different levels)
Light part 1-Natural vs artificial lights, characteristics, direction, intensity, colour temperature, hard/soft, direct/diffused, high/low key
Light part 2-Indoor light setup
Flash-different modes
Colour theory/Importance of colour

Module III
Still Photography – site photography, Applied & Commercial Photography, Portraits and fashion photography, Street photography, Product photography, Editing software-Lightroom basics

Module IV

Understanding Space & Perspective - Symmetry, vanishing points, and wide vs standard lens use.
Lighting Interiors-Natural vs artificial light, balancing window light with room lighting.
Textures & Materials - Photographing wood, glass, marble, fabric, reflections, and surface finishes.
Styling & Storytelling-Props, lifestyle elements, and difference between real estate vs design photography.

Module V
Photographs of the existing site in different angles.
Projects, Practice & Presentation, Mini projects, experimentation, research & discussions.

Reference books

1. *Photographing people - Portraits fashion Glamour: David Wilson*

Semester III			
Course Title	**Organizational Behavior (Theory)**	**Credits**	**2**
Course Code	**GE- 306**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	To understand the need and importance of organizational behaviour.		
CO2	To understand and analyze the personality and learning theories.		
CO3	To understand the importance of attitude and its effect on personality building and emotional competence.		
CO4	To understand and apply basic knowledge about group dynamics, team building, and organization structure.		
CO5	To evaluate and learn the importance of organizational change and development.		

MODULE I: Focus and Purpose

- Definition
- Need and importance of Organizational Behaviour
- Nature and scope
- Framework – Organizational Behaviour Models

MODULE II: Individual Behaviour

- Personality: Types, Factors influencing personality, Theories
- Learning: Types of Learners, The Learning Process, Learning Theories, Organizational Behaviour Modification
- Attitudes: Characteristics, Components, Formation, Measurement
- Perception: Importance, Factors influencing perception, Interpersonal perception
- Motivation: Importance, Theories, Effects on work behaviour

MODULE III: Group Behaviour

- Organization Structure: Formation
- Groups in Organizations: Influence, Group Dynamics
- Emergence of informal leaders and working norms
- Group Decision Making Techniques
- Interpersonal relations
- Communication
- Control

MODULE IV: Leadership and Power

- Leadership: Meaning, Importance, Leadership styles, Theories, Leaders vs Managers
- Power: Sources of Power, Power Centers, Power and Politics

MODULE V: Dynamics of Organizational Behaviour

- Organizational Climate: Factors affecting Organizational climate, Importance
- Job Satisfaction: Determinants, Measurement, Influence on behaviour
- Organizational Change: Importance, Stability vs. change, Proactive vs. Reactive change, The change process, Resistance to change, Managing change
- Organizational Development: Characteristics, Objectives, Team building
- Organizational Effectiveness: Perspectives, Effectiveness vs. Efficiency, Approaches, The Time Dimension, Achieving organizational effectiveness

TEXT BOOKS / REFERENCE BOOKS:

1. Stephen P. Robbins, “Prentice Hall of India” 9th Edition, 2001.
2. Hellriegel, Slocum and Woodman, “Organizational Behavior” South-Western, Thomson Learning, 9th edition, 2001.
3. Schermerhorn, Hunt and Osborn, “Organizational Behavior” John Wiley, 7th edition, 2001.
4. “Organisational Behavior”, Jit Chand, Vikas Publishing House Pvt. Ltd, 2nd edition, 2001.
5. Fred Luthans, “Organisational Behavior”, McGraw-Hill Book Co., 1998.
6. Newstrom and Davis, “Organisational Behaviour”, McGraw-Hill, 2001.
7. Jeff Harris and Sandra Hartman, “Organisational Behaviour”, Jaico, 2002.

Semester III			
Course Title	**Financial Literacy (Theory)**	**Credits**	**2**
Course Code	**GE- 023**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Understand the role of financial literacy in personal and professional life.		
CO2	Demonstrate knowledge of banking, digital transactions, and secure usage of financial tools.		
CO3	Prepare simple budgets and apply saving and investment strategies.		
CO4	Explain the basics of credit, loans, insurance, and taxation.		
CO5	Apply financial knowledge in real-life scenarios for better financial planning and decision-making		

Module I **12 Hours**

Understanding Financial Literacy:Concept and importance of Financial Literacy, Budgeting: Income, Expenses, needs vs Wants, Introduction to Personal Finance and Goal Setting, Role of financial planning in life, building a financial mindset, Activity: Students create their monthly personal budget using 50-30-20 rule.

Module II **12 Hours**

Banking and Digital Finance:Types of bank accounts (Savings, Current, RD, FD), How to open and operate bank accounts, Digital payment systems: UPI, IMPS, NEFT, wallets (Paytm, GPay, PhonePe), Debit & credit cards: usage and safety, Cybersecurity and financial fraud awareness, Role of RBI and regulatory bodies, Activity: Case study of UPI fraud prevention.

Module III **12 Hours**

Budgeting, Saving & Investment Basics: Principles of saving and setting financial goals, Saving options: Bank FDs, Recurring Deposits, PPF, Post Office schemes, Basics of investment: Mutual Funds, SIP, Shares (intro only), Power of compounding and financial discipline.

Module IV **12 Hours**

Credit, Loans, and Debt Management: Understanding credit score and CIBIL, Loans: Education, Personal, Vehicle – overview, EMI and interest rate concepts, good vs bad credit habits, Credit card usage and debt traps, Activity: Case study.

Module V **12Hours**

Insurance, Taxation, and Government Schemes:Basic understanding of income tax: slabs, PAN, filing, Insurance: Health, Life, Motor – features and need, financial identity: PAN, Aadhaar, KYC norms, Govt. schemes: PMJDY, PMJJBY, PMSBY, Sukanya Samriddhi Yojana, SRI Fund, Activity: Students identify a scheme they can apply for and list its benefits.

Textbook:

1. "Essentials of Marketing Management" by Dr. Vikas Tiwari, Dr. Priyanka Bose and Dr. Supriya Singh Chouhan, Amazon Kindle Edition, 2024

2. Financial Literacy: A Beginner's Guide to Managing Money, National Centre for Financial Education (NCFE), SEBI, RBI Publications.

Reference Book:

1. Monika Halan, Let's Talk Money, Harper Business

2. "Essentials of Marketing Management" by Dr. Vikas Tiwari, Dr. Priyanka Bose and Dr. Supriya Singh Chouhan, Amazon Kindle Edition, 2024

3. Robert T. Kiyosaki, Rich Dad Poor Dad (Simplified Reading Edition)

4. Eric Tyson, Personal Finance for Dummies, Wiley

5. Neeraj Agarwal, Personal Finance Simplified, Buzzingstock Publishing

6. S. S. Gupta, Financial Planning Made Simple, Taxmann

7. L.M. Bhole and Jitendra Mahakud, Financial Institutions and Markets, McGraw Hill

Semester III			
Course Title	**Film Studies (Theory)**	**Credits**	**2**
Course Code	**GE- 023**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	To understand the historical development of cinema		
CO2	To critically interpret films using established theoretical frameworks, including formalism, realism, auteur theory.		
CO3	To understand basics of film production.		
CO4	Analyze the historical, cultural, and industrial contexts in which Citizen Kane and Rashomon were produced and released.		
CO5	To examine the cinematic styles present in the films Mor Chhaiyan Bhuyiaan and Bhulan: The Maze.		

Objective: The objective of Film Studies is to critically analyze cinema as an art form, cultural product, and medium of communication. It aims to understand the social, political, historical, and aesthetic dimensions of films, while developing visual literacy and appreciation of cinematic techniques.

Module I

Brief History of Cinema, Early Indian Cinema and the Silent Era

Module II

The birth of talkies Era, Early Auteurs: Pathar Panchali by Satyajit Ray, New Wave Cinema

Module III

Basics of Film Production, Film Censorship

Module IV

Case study of Famous cinema of the world:

- Orson Welles: *Citizen Kane* (1941)
- Kurosawa Akira: *Rashomon* (1950)

Module V

OTT Era, Chhattisgarh's Regional Cinema:

- *Mor Chaiyaan Bhuyian*
- *Bhulan The Maze*

Recommended Readings

1. **The Oxford History of World Cinema**
    - By: Geoffrey Nowell-Smith | Oxford University Press, 1997
2. **Theatre to Cinema: Stage Pictorialism and the Early Feature Film**
    - By: Ben Brewster, Lea Jacobs | Oxford University Press, 1997
3. **Mass Communication in India**
    - By: Kewal J Kumar
4. **Film, Television and Theatre**
    - By: Ashish Pandey
5. **Film Studies: An Introduction**
    - By: Ed Sikov

SEMESTER –IV

Semester IV			
Course Title	**Interior Design Studio & Market Survey – III (Lab)**	**Credits:**	**4**
Course Code	**BSC DSC-407**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Interior design studio will enhance drawing skills as tools to design thinking, views, visualization, and representation.		PO3,4
CO2	Sketching on drawing sheets as per scale of corporate office will help students gain practical knowledge on office designing and furniture.		PO8,9,10
CO3	Student will understand office anthropometry and can use it in their further projects.		PO8,9,10
CO4	Student will gain knowledge on office scapes and their use.		PO10
CO5	Student will gain knowledge on office furniture and finishes		PO10

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

Module I – Design Analysis, Research & Programming

Client profile & requirement analysis, Company hierarchy & workflow study, Space requirements for reception, cabins, workstations, meeting rooms, conference room, server room, pantry & storage, Brand identity study, Market survey of office furniture, modular workstations, partitions, flooring & ergonomic products.

Module II-Site Analysis & Data Collection

Site location & approach, Circulation & zoning study, Climatic analysis, Sun path & natural light study, Anthropometry & ergonomics for office furniture, Standard dimensions of workstations & cabins, Material & finish identification, Public survey & market trend research, Optional Vastu considerations.

Module III- Concept & Design Development

Mood board creation, Theme development (modern/industrial/minimal/biophilic), Color palette selection, Brand-based design concept, Zoning of staff & visitor areas, Concept statement, Market survey for new materials, acoustic panels, ceiling systems & smart lighting concepts.

Module IV- Working Drawings & Space Planning

Furniture layout of complete office, Civil layout, Sectional elevations of reception/cabins/workstations, Reflected ceiling plan with lighting & HVAC points, Electrical layout with switchboard & data points, Flooring layout, Partition details (glass/gypsum), Interior services layout (CCTV, network, fire-safety), Material & finish detailing.

Module V- Final Presentation & 3D Visualization

A2 presentation boards (concept, zoning, plans, sections), Material & finish board, 3D views of reception, meeting room, workstation area & MD cabin, Walkthrough presentation (optional), Cost estimation sheet, Market survey summary, Final portfolio submission

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. *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*

Semester IV			
Course Title	**Vastu (Theory)**	**Credits:**	**2**
Course Code	**BSC DSC-408**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Understand foundations of Vedic Vastu, Macro Vastu principles, directions, and five elements.		**PO1, PO3**
CO2	Analyze residential, commercial & office spaces based on Vastu planning rules.		**PO3, PO8, PO9**
CO3	Apply Micro Vastu principles in interiors, furniture placement, colors & materials.		**PO3, PO10**
CO4	Identify defects and propose remedies using Vedic Vastu & Chinese Feng Shui tools.		**PO4, PO5**
CO5	Prepare a complete 3000 sq.ft Vastu compliant residential plan and final report.		**PO8, PO9, PO10**

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

Module I- Foundations of Vedic Vastu & Macro Concepts

Introduction to Vastu Shastra, Five Elements, Macro Vastu (land-level, surroundings), Vastu Purusha Mandala, Directional significance, Site selection parameters, Introduction to Chinese Feng Shui.

Module II- Space Planning: Residential, Commercial & Office Vastu

Vastu for Residence (living, kitchen, bedrooms, toilets, puja), Vastu for Commercial spaces, Vastu for Office layouts (workstations, cabins, reception), Zoning principles, Case studies.

Module III– Micro Vastu for Interiors

Placement of furniture, mirrors, electronics, materials, colors; Vastu for décor, wardrobes, appliances, kitchens; Interior-based Vastu corrections without demolition.

Module IV – Remedies, Corrections & Feng Shui Integration

Non-structural Vastu remedies (pyramids, metals, colors), Energy balancing, Feng Shui tools (Bagua, crystals, plants, wind chimes), Vastu vs Feng Shui comparison, Identifying defects & corrections.

Module V– Vastu-Based Residential planning (3000 sq.ft Project)

Complete Vastu analysis of a 3000 sq.ft residence, directional map, zoning chart, plot study, Vastu-compliant planning, integration of Macro + Micro Vastu + Feng Shui corrections, final drawings & report.

Reference books

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

Semester IV			
Course Title	**Autodesk 3d Max& 3D Visualization (Lab)**	**Credits**	**2**
Course Code	**BSC DSC-409**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Basic 3D Modelling Techniques: Students should be able to create basic 3D models using 3ds Max		PO5,6,11
CO2	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		PO5,6,11
CO3	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		PO6,11
CO4	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		PO6,11
CO5	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		PO6,11

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

Module I
Introduction to Autodesk 3ds Max

Tool description of Autodesk 3D Max, Interface & Workspace, Viewport Controls, Scene Management (unit setup etc), Basic Shapes & Modifiers.

Module II
Poly Modelling & Surface Modelling

Introduction to Editable Poly, Poly Modelling Tools, Surface Modelling, Advanced Modelling Techniques

Module III
Texture &Materials.
Introduction to Materials, Applying Materials, Creating Custom Materials, Texture Optimization

Module IV
Light: Light Point, Directional Light, Target Light.

Light Concepts, Types of Standard & Photometric Lights, Light Parameters, Interior Lighting Techniques, Exposure Control.

Module V
Rendering & Camera Movement

Introduction to Rendering, Camera Setup, Rendering Techniques, Animation Basics, Post-Production Basics

Reference Book

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

Semester IV			
Course Title	**Model Making (Lab)**	**Credits:**	**2**
Course Code	**BSC DSC-410**		
Learning Level	**BTL**		
CO	Course Outline		PO
CO1	To learn scale and techniques to make block & 3D Model for better visualization.		PO5
CO2	To be able to understand the model scales in 3D		PO1
CO3	Developing hand on experience and applying joinery techniques to make wooden models		PO1,2
CO4	To document and present the models using various representation skills		PO3,5
CO5	To understand the workability of materials for finish quality		PO3,5

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

Semester IV			
Course Title	**Services & Market Survey– II (Theory)**	**Credits:**	**2**
Course Code	**BSC DSC-411**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	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
CO2	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
CO3	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
CO4	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
CO5	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 fire fighting, 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.

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*
   National Building Code

Semester IV			
Course Title	**Landscape Designing& Exhibition(Project)**	**Credits:**	**4**
Course Code	**BSC DSE-405**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Understand basics, history & principles of landscape design.		PO1, PO2,PO4, PO6,PO8
CO2	Comparative study of traditional vs. modern garden styles		PO1, PO2, PO6, PO7,PO8
CO3	Conduct site analysis and define use areas.		PO1, PO3, PO4, PO6,PO7,PO9, PO10
CO4	Choose suitable plants and landscape materials.		PO1,PO2,PO4,PO6,PO7,PO9,PO10
CO5	Prepare site layout and execute design with case study.		PO1–PO11

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

Module I – Introduction to Landscape Design
Definition, scope and importance of landscape design, Components of landscape, hardscape and soft cape, Elements of landscape such as landform, water, vegetation, structures and surface materials, Principles of landscape design including balance, unity, rhythm, proportion and harmony, Relationship between built spaces and outdoor spaces, Role of climate, environment and user needs in landscape planning.

Module II –History & Typologies of Gardens

History and evolution of garden design across civilizations, Types of gardens including Mughal garden, Persian garden, Japanese Zen garden, French formal garden, English landscape garden, Tropical garden, Contemporary garden and Courtyard garden, Key characteristics, layout principles, symbolism and elements of each garden type, Comparative study of traditional vs. modern garden styles, Case studies of significant historical and contemporary gardens for understanding planning, design language and cultural context.

Module III – Planting Design
Types of plants, trees, shrubs, ground covers, climbers and seasonal plants, Selection criteria based on climate, maintenance, growth habit and aesthetic value, Plant characteristics such as texture, form, color, height and seasonal variation, Principles of planting composition, theme gardens, lawn creation, hedges, borders, edges and flower bed design.

Module IV – Hardscape & Landscape Elements
Paths, walkways, courtyards, retaining walls, gazebos, pergolas, decks and patios, Water features such as fountains, ponds, cascades and waterfalls; Outdoor furniture and lighting, Paving materials and surface finishes, Landscape structures, sculptures and seating elements, Drainage systems, irrigation methods and integration of outdoor services.

Module V – Landscape Design Project & Preparation
Development of a complete landscape design project including site analysis, concept development, zoning, bubble diagrams and final layout, Preparation of landscape plan, planting plan, hardscape details and supporting drawings such as sections and elevations, Material and plant specification sheets, Basic cost estimation and BOQ, Final presentation with drawings, models, mood boards and digital renders.

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*
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 Jellico, 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 Hacket, 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.*

Semester IV			
Course Title	**Modular furniture(Project)**	**Credits:**	**2**
Course Code	**BSC DSE-406**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Classify and characterize different types of modular furniture systems and their materials.		PO1,2
CO2	Evaluate and select appropriate materials for specific modular furniture applications based on performance criteria and sustainability.		PO2,4
CO3	Apply knowledge of construction terminology, joints, and hardware in technical drawings and prototyping		PO1,3,7,10
CO4	Analyze various fabrication methods to determine the most effective and efficient production techniques for specific modular components.		PO1,3,6,7,10
CO5	Supervise and assess the installation of modular furniture, ensuring alignment and functionality according to drawings and standards.		PO1,7,9,10

Objective: *To equip students with the knowledge and practical skills required to design, evaluate, fabricate, and install efficient modular furniture systems by integratingappropriate materials, construction techniques, and contemporary industry practices.*

Module 1:

Fundamentals of Modular Furniture Design & Materials

Definition and Principles of Modular Furniture, Historical Evolution of Modularity in Furniture Design, Key Materials and Material Properties, Material Selection Criteria and Processing Techniques, Sustainability and Material Lifecycle Assessment (LCA), Ergonomics and Anthropometric Data

Module 2:

Joinery, Hardware, and Production Techniques

Terminology Used in Furniture Construction and Cabinet Making, Detailed Study of Different Types of Joints, Hardware, Fixtures, Fittings, and Accessories, Woodworking Tools and Safe Operation,Fabrication and Manufacturing Methods for Modular Components, Introduction to Production Drawings, Cut Plans, and Bill of Materials (BOM)

Module 3:

Design Software and Digital Prototyping

Proficiency in Industry-Standard Software Tools, Creating 2D Layouts and Dimensioning Drawings, Developing 3D Furniture Models with Textures, Lighting, and Realistic Rendering, Digital Presentation and Communication Skills for Design Ideas,

Module 4:

Spatial Planning and Application in Diverse Interiors

Space Planning Principles in Modular Design, Designing for Specific Environments, Detailed Case Studies of Existing Modular Systems, Integration of Services and Accessories within Modular Designs, Understanding Client Briefs, Site Measurements, and Verification Processes, Costing, Estimation, and Specification Writing for Modular Project

Module 5:

Installation, Professional Practices, and Trends

Site Preparation and Installation Procedures, Hardware Installation, Alignment Checks, and Functionality Testing, Post-Installation Assessment and Project Handover, Market Trends, Industry Practices, and Entrepreneurship Skills

Reference Books:

Furniture Design and Construction for the Interior Designer by Christopher Natale.
Furniture Design by Jerzy Smardzewski.

Semester IV			
Course Title	**Sustainable Design Thinking(Theory)**	**Credits:**	**2**
Course Code	**BSC DSE-420**		
Learning Level	**BTL**		
CO	**Course Outline**		
CO1	Illustrate the impact of buildings on environment Identify the roles of lighting system in artificial lighting		PO1,3,4,6
CO2	Identify the role of human capital and interiors in indoor environment.		PO1,4,8,10
CO3	Understand the use of principles of sustainable design in interiors using real time applications		PO2,4,6,7
CO4	Explore the energy conservation techniques in interiors and to understand the benefits of green interiors		PO2,4,5,10
CO5	To know the various methods used to enhance the indoor quality of interiors.		PO4,6,8,9,11

Objective:

1. *To inform about the need to use alternative sources of energy in view of the depleting*
2. *resources and climate change.*
3. *To provide familiarity with simple and passive design considerations*
4. *To inform about the importance of day lighting and natural ventilation in building*
5. *design.*
6. *To create awareness of future trends in the design of sustainable built environment*
7. *To give an understanding of the concept of sustainability and sustainable development.*

Module I:Introduction to Green Buildings & Green Building Rating System

Why make Buildings Green? Concept and necessity.

Green Building Rating System: The seven categories in the rating system : Sustainable Sites, Water Efficiency, Energy & Atmosphere, Materials & Resources, IndoorEnvironmental Quality, Innovation in Design and Regional Priority. Rating Systems:

GRIHA and LEED & other Systems.

Module II: Introduction to Sustainability

Concept of sustainability. Carrying capacity, sustainable development. Ethics and visions ofsustainability. Circles of sustainability. Sustainable economy and use. eco systems, food chainand natural cycles or cradle to cradle concept.

Module III: Climate Change and Sustainability

Overview of climate change and its impact on a global and regional scale. Principles of energysystems. Energy crisis and global environment. Study on vernacular techniques andtechnological advancements in climate control in different climatic zones

Module IV: Site and Sustainability

Sustainable site selection and development. Introduction to Green building concepts. TERI,LEED, GIRHA and BREEAM. Ecology and sustainability. Different sources of energy,recyclable products and embodied energy

Module V: Sustainable Materials

Selection of materials Eco building materials and construction. Low impact construction – biomimicry, zero energy buildings, nano technology and smart materials.

Reference Books:

1. Dominique Gauzin–Muller, 'Sustainable Architecture and Urbanism: Concepts, Technologies and Examples', Birkhauser, 2002.
2. Catherine Slessor, 'Eco-Tech: Sustainable Architecture and High Technology', Thamesand Hudson 1997.
3. Ken Yeang, 'Ecodesign- A Manual for Ecological Design', Wiley Academy, 2006.
4. Sandra F. Mendler & William Odell, 'HOK Guidebook to Sustainable Design', John Wiley and Sons, 2000.
5. Richard Hyder, 'Environmental Brief: Pathways for Green Design', Taylor and Francis,2007
6. Brenda Vale and Robert Vale, 'Green Architecture: Design for a Sustainable Future', Thames and Hudson, 1996.
7. David Johnson and Scott Gibson, 'Green from the Ground Up: Sustainable, Healthy andEnergy Efficient Home Construction', Taunton Press, 2008

Semester IV			
Course Title	**Space Saving furniture (Theory)**	**Credits:**	**2**
Course Code	**BSC DSE-421**		
Learning Level	**BTL**		
CO	**Course Outline**		
CO1	To introduce students to the foundations of compact living		PO1,9
CO2	To develop the ability to apply essential design principles		PO1,3,6,7,9, 10
CO3	To equip students with knowledge of modern materials, mechanisms, and technologies.		PO2,3,5,11
CO4	To enable students to identify, analyze, and design residential space-saving furniture typologies		PO1,2,3,6,7
CO5	To expose students to emerging trends and innovations		PO2,5,7,8

Objective:

To enable students to understand, design, and apply innovative space-saving furniture solutions that optimize available space while enhancing functionality, ergonomics, and aesthetic appeal within residential and commercial interiors.

Module 1: Fundamentals of Compact Living and Design Principles

- Introduction to the concept of space-saving furniture and its historical context.
- The driving forces for compact living (urbanization, micro-apartments, minimalism).
- Core design principles: flexibility, adaptability, multi-functionality, and transformation.
- Anthropometry and ergonomics in space efficiency: ensuring comfort in compact designs.
- Case studies of influential space-saving designs (e.g., Shaker furniture, modern transformable systems).
- Psychology of small spaces and visual techniques for maximizing space (e.g., mirrors, color theory).

Module 2: Materials, Mechanisms, and Technology

- Material selection for strength, weight reduction, and durability (engineered wood, metals, composites).
- Detailed study of kinetic mechanisms: hinges, sliding systems, hydraulics, and counterbalance systems.
- Hardware and fittings essential for transformative furniture (locks, knobs, specialized fasteners, sliding channels).

- Integration of smart technology and automation in modern space-saving designs.
- Sustainable materials and green building technologies in furniture production.

Module 3: Design Typologies: Residential Applications

- Specific furniture typologies for residential spaces:
  - **Seating/Sleeping:** Sofa-cum-beds, Murphy beds, loft beds with integrated workstations.
  - **Storage Solutions:** Modular shelving, storage ottomans, under-bed storage, pull-out pantries.
  - **Dining/Work Surfaces:** Drop-leaf tables, nesting tables, wall-mounted desks, foldable dining sets.
- Detailed construction methods and specifications for residential projects.
- Design process from conceptual sketches to final prototypes for residential use.

Module 4: Design Typologies: Commercial and Institutional Spaces

- Space optimization in commercial environments: open-plan offices, hospitality (hotels, restaurants, bars), and retail.
- Modular office furniture systems: adjustable desks, mobile partitions, and portable seating solutions.
- Designing for flexibility in public spaces: retractable seating, stackable chairs, and multi-use display units.
- Acoustics and privacy solutions within flexible furniture systems.
- Compliance with commercial building codes and safety standards.

Module 5: Professional Practice, Prototyping, and Future Trends

- Estimating and costing procedures for space-saving furniture projects.
- Professional practice: client interaction, contracts, intellectual property, and project management principles.
- Prototyping and model making: techniques for testing functionality and scale.
- Current and future trends: parametric design, 3D printing of components, and responsive furniture systems.
- Portfolio development and presentation techniques for marketing innovative designs.
- Final project: Students conceptualize, design, and detail a novel space-saving furniture product.

Reference Books:

Interior Design for Small Dwellings – Sherrill Baldwin Halbe & Rose Mark
Compact Living: How to Design Small Interior Space – Michael Guerra

Course Title	Creative Writing Skills (Theory)	Credits:	2
Course Code	AEC 307		
Learning Level	BTL		PO
CO	Course Outline		
CO1	The students will be able to develop draft in creative writing.		PO7
CO2	The students will be able to go for publishing their own work.		PO7
CO3	They will be able to induce an understanding of the relationship between an individual and society.		PO7
CO4	The learners will be able to get into different fields and pursue versatile career opportunities.		PO7
CO5	The students will have hands on activity to develop their creative skills through practical sessions.		PO7

Module I

Introduction to creative writing- Meaning and its importance
Steps to creative writing

Module II

Imagination and writing, peer interaction, Activities on imagination.

Module III

Craft of writing-Figure of Speech, Word play, Character Creation

Module IV

Character creation- Dialogue Enaction, Learning characters through discussion on famous writings

Module V

Close Reading
Analysis and interpretation. Reading short portions, discussion and practice writing Sessions.

Suggested Readings:

1. *Creative Writings: A Beginner's Manual by Anjana Neira*. New Delhi . 2008.
2. *The Elements of style* by William Strunk Jr. and E.B. White. Longman, 1959.

Semester IV			
Course Title	**Foreign Language (Theory)**	**Credits:**	**2**
Course Code	**VAC 408**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Communicate effectively in the foreign language via proficient, articulate, and well-organized writing.		PO2,6,7,10
CO2	Understand comprehension of the spoken foreign language in a variety of listening situations.		PO1,4,5,10
CO3	Understand comprehension of a wide range of foreign language written materials.		PO6,7,10

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

- French
- German
- Italian

FRENCH LANGUAGE

Grammair:

UnitéI:
Gendre, Article define etindéfini. SingulieretPlurial, Nombres – cordinauxetordinaux, Prononciation.

Unité II:
Nom, Pronom, Vocabutaire, Preposition et adjective (Qualificatif, Possessif et dimonstratif)

Unité III:
Les Verbe(Conjugaison); Présent, passé et futur

Texte:

Unité IV:
Leşon 1- 14, Vocabulaire, grammaire

Unité V:
Leşon 15 – 25, Vocabulaire, grammaire

Livre:
Cours de Langue et de civilization Françaisesi

Reference Book

1. *G. MAUGER*

Semester IV			
Course Title	**Product Design & Display In Exhibition-II**	**Credits:**	**2**
Course Code	**SEC 402**		
Learning Level	**BTL**		
CO	**COURSE OUTCOMES**		**PO**
CO1	To learn scale and techniques to make block & 3D Model for better visualization.		PO5
CO2	To be able to understand the model scales in 3D		PO1
CO3	Developing hand on experience and applying joinery techniques to make wooden models		PO1,2
CO4	To document and present the models using various representation skills		PO3,5
CO5	To understand the workability of materials for finish quality		PO3,5

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

SEMESTER –V

Semester V			
Course Title	**Retail Design & Market Survey**	**Credits:**	**2**
Course Code	**BSC DSC-505**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Retail Design will help student understand about the intersection of architecture, interior, marketing, strategy and design of the built environment.		PO 1
CO2	Understand the functions of retail business and various retail formats and retail channels.		PO 6,7
CO3	Understand the need of retail stores and furniture's required.		PO6,7
CO4	To understand and apply an innovative and progressive approach to address design issues intrinsic to the evolution and transformation of retail environments		PO6,7
CO5	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 Guptill*
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*

Semester V			
Course Title	**Professional Practices**	**Credits:**	**4**
Course Code	**BSC DSC-506**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
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 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.*

Semester V			
Course Title	**Retail Design & Market Survey (Lab)**	**Credits:**	**4**
Course Code	**BSC DSC- 507**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	Retail Design will help student learn about the intersection of architecture, interior, marketing, strategy and design of the built environment.		PO1
CO2	Understand the functions of retail business and various retail formats and retail channels.		PO6,7
CO3	Understand the need of retail stores and furniture's required.		PO6,7
CO4	To understand and apply an innovative and progressive approach to address design issues intrinsic to the evolution and transformation of retail environments		PO6,7
CO5	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 - 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

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. *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*

Semester V			
Course Title	**DISSERTATION**	Credits:	**4**
Course Code	BSC DSC- 508		
Learning Level	**BTL**		
CO	**COURSE OUTCOMES**		**PO**
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

Research Foundation & Proposal Development

Topic selection, Research background study, Aim, objectives, scope, limitations, Problem identification, Literature review (books, journals, research papers), Gap identification, Finalization of research proposal.

Module 2

Research Methodology & Data Framework

Research methodology types, Data collection methods, Questionnaire & survey design, Sampling, Public survey, Interviews & observations, Case study guidelines, Data documentation, Research ethics.

Module 3

Site Selection, Site Study & Context Analysis

Site selection criteria, Site location & surroundings, Climatic analysis (sun path, wind), Transportation & accessibility, Infrastructure mapping, Environmental & socio-cultural context, Photography, Measurements, SWOT analysis.

Module 4

Data Analysis, Findings & Problem Identification

Data compilation, Public survey analysis, Graphs, charts & tables, Finding patterns & issues, Re-search (secondary confirmation), Problem statement development, Design criteria formulation, proposed interventions & implementation strategies.

Module 5

Final Solution, Research Paper & Report Writing

Solution development, Application of findings, Preparation of guidelines/framework, Research paper writing (abstract, methodology, results, conclusion), Dissertation report formatting, Referencing style, Annexure preparation, Final submission & viva presentation.

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.

Semester V			
Course Title	**Green Building Technology (Theory)**	**Credits:**	**4**
Course Code	**BSC DSE-505**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
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

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. Despande, R.S, (1974) Build your own home, United book corporation, Poona*

.

Semester V			
Course Title	**Ergonomics (Theory)**	**Credits:**	**4**
Course Code	**BSC DSE-506**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
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 difference 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 Pfeirffer, E.A. (1991) Biomedical Instrumentation and Measurements, Prentice Hall, New Delhi.*

Semester V			
Course Title	**CLIMATOLOGY**	**Credits:**	**2**
Course Code	**BSC DSE- 508**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		
CO1	Analyze the Impact of Climate on Built Form – Understand the relationship between climate and architecture, and apply climatic data for site and building design.		PO1,3,4
CO2	Evaluate Thermal Comfort Conditions – Assess thermal comfort using indices and charts, and apply passive design strategies to optimize indoor environmental quality.		PO1,3,5
CO3	Apply Heat Transfer Principles in Building Design – Analyze thermal properties of materials, calculate heat gain/loss, and design energy-efficient building envelopes.		PO1,3,4,6,7
CO4	Design Climate-Responsive Buildings – Develop effective shading devices, ventilation strategies, and solar protection techniques to enhance thermal performance.		PO1,3,4,6,7
CO5	Integrate Daylighting and Passive Strategies – Implement daylighting principles and passive solar techniques in building design, considering climatic constraints and sustainability.		PO1,3,4,6,7

Module-1 Introduction to Climate

1. Introduction to Climate-1:

The Climate-built form interaction; some examples. Elements of climate, measurement and representations of climatic data. Classifications and Characteristics of tropical climates.

2. Introduction to Climate & its elements-:

Elements of climate - Wind, temp, humidity, precipitation, pressure. Major climatic zones of India. Site Climate: Effect of landscape elements on site/micro climate.

3. Thermal comfort-1:

Thermal balance of the human body, Thermal Comfort Indices (Effective temperature, corrected effective temperature, bioclimatic chart, tropical summer index by CBRI Roorkee). Measuring indoor air movement: Kata-thermometer, and measuring indoor radiation: Globe thermometer.

Module-2 Thermal comfort

1. Thermal comfort-2:

Calculation of Overheated and Under heated period (based on air temperature only) for locations in Climatic zones and their optimization in terms of solar heating and Passive cooling desired.

2. Relationship of Climate and Comfort :

• Micro-Macro climatic effects.

• Concept of comfort zone and bio climatic chart.

• Adaptation techniques as per climatic zone (Natural and Artificial methods)

3. Sun-path diagram:

Solar geometry & design for orientation and use of solar charts in climatic design.

4. Thermal performance of building elements:

Effect of thermo-physical properties of building materials and elements on indoor thermal environment. Convection, Radiation, concept of Sol-air temperature and Solar Gain factor.

• Use of landscape elements for micro-macro climate control.

Module-3 Thermal Heat gain or loss

1. Thermal Heat gain or loss:

Sun chart (sun-path diagram) , Steady state and periodic heat flow concepts, Conductivity, resistivity, diffusivity, thermal capacity, time lag and 'U' value. Calculation of U value for multilayered walls and Roof, Temperature Gradient, Inference of time lags from Graphs for walls and Roof.

2. Sun Protection Devices:

Design of louvers (horizontal & Vertical) , Construction techniques for improving thermal performance of walls and roofs. (Effect of density, Insulation, and Cavity).

Introduction and objectives of solar passive design. Passive Solar heating system (direct gain, indirect gain, isolated gain)

Module-4 Shading devices & ventilation

1. Shading devices:

Horizontal and vertical shadow angles. Use of shadow angle protractor. Optimizing Design of Shading devices effective for overheated periods while allowing solar radiation for under heated periods for different wall orientations.Performance evaluation of shading devices. Climatic variables: temperature, humidity, precipitation, cooler radiation, wind, etc. Tropical Climate. Climatic Zones of India & their characteristics.

2. Natural ventilation:

Functions of natural ventilation, Stack effect due to thermal force and wind velocity. Air movements around buildings, Design considerations and effects of openings and external features on internal air flow and Wind shadows.

• Orientation for Wind.

• Passive solar cooling (direct solar radiation, convective cooling, conductive cooling, evaporative cooling system.

Module-5 Day Lighting

1. Day Lighting:

Nature of natural light, its transmission, reflection, diffusion, glare. Advantages and limitations in different climatic zones, North light, Daylight factor, components of Daylight devices.

2. Climatic Design considerations-1:

Literature study of relevant traditional and contemporary building examples.

3. Climatic Design considerations-2:

Two Indian case studies and one international for each climatic zone.

REFERENCES:

1. Koenigsberger, Manual of Tropical Housing & Buildings (Part-II), Orient Longman, Bombay, 1996.
2. Arvind Kishan, Baker & Szokolay, Climate Responsive Architecture, Tata McGraw Hill, 2002.
3. Martin Evans; Housing, Climate, and Comfort; Architectural Press (1 March 1980)
4. Donald Watson and Kenneth Labs; Climatic Building Design - Energy-Efficient Building Principles and Practice; McGraw-Hill Book Company, 1983.
5. Mili Majumdar (Editor); Energy Efficient Buildings in India; The Energy and Resources Institute, TERI (28 February 2009)
6. Baruch Givoni; Passive and Low Energy Cooling of Buildings; John Wiley & Sons (1 July 1994).
7. Energy Conservation Building Code (ECBC) 2007; Bureau of Energy Efficiency, Ministry of Power, Government of India.

Semester V			
Course Title	**CRAFT DOCUMENTATION**	**Credits:**	**2**
Course Code	**BSC DSE-507**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		
CO1	Understand the cultural, historical and regional diversity of Indian arts & crafts and their relevance in interior spaces		PO1, PO6
CO2	Identify craft styles, materials, motifs, tools and techniques used across Indian states.		PO2, PO5
CO3	Analyze how traditional crafts influence interior surfaces, products and spatial aesthetics.		PO3, PO10
CO4	Evaluate crafts based on region, functionality, sustainability and contemporary adaptation.		PO4, PO8
CO5	Apply craft knowledge to develop design concepts, documentation sheets and craft-integrated interior solutions.		PO2, PO9, PO10

Objective:

To study Indian arts & crafts, their cultural roots, materials, techniques, motifs and understand their application in interior spaces. Students will learn how regional crafts influence interior design elements, furnishings, décor and spatial identity.

Module I – Foundations of Indian Arts, Crafts & Cultural Heritage

This module introduces the fundamental concepts of Indian arts and crafts, including their historical evolution, cultural context and classification into textile, wood, metal, clay, stone, tribal, weaving and painting categories. Students will study traditional motifs, patterns and symbolisms, along with the importance of craft documentation for interior design. The module highlights the significance of preserving craft traditions and understanding their relevance in modern interiors.

Module II – Craft Traditions of Northern & Western India

This module explores the craft heritage of Rajasthan, Gujarat, Punjab, Haryana, Jammu & Kashmir and Himachal Pradesh. Students will study practices such as blue pottery, block printing, meenakari, patola weaving, phulkari, papier-mâché, walnut wood carving, Kullu textiles and various metal and wood crafts. The application of these crafts in interior spaces—such as wall panels, furniture inlay, décor textiles and lighting—is discussed to help students understand their design relevance.

Module III – Craft Traditions of Eastern, Central & Northeastern India

This module covers regional crafts from West Bengal, Odisha, Bihar, Jharkhand, Chhattisgarh and the Northeastern states. Students will explore Kantha stitching, terracotta, Pattachitra, Madhubani art, Dokra metal casting, bamboo and cane crafts, and tribal metal and wood work. The module emphasizes how these crafts contribute to sustainable interior solutions, including furniture, wall art, lighting, murals and eco-friendly décor.

Module IV – Craft Traditions of Southern India & Coastal Regions

This module introduces students to the craft traditions of Tamil Nadu, Kerala, Karnataka, Andhra Pradesh, Telangana, Goa and coastal regions. Topics include Tanjore painting, mural art, Mysore painting, sandalwood carving, Kalamkari, Bidriware, Cheriyal scroll painting, coir craft and shell craft. Applications in interior spaces, such as murals, wall panels, handcrafted furniture, decorative artifacts and textile installations, are examined in detail.

Module V – Craft Integration in Contemporary Interior Design

The final module focuses on the practical application of traditional crafts in modern interior design. Students will learn to integrate craft motifs and materials into interior surfaces, textiles, furniture and lighting. Emphasis is placed on sustainable craft-based designs, development of mood boards, and creating detailed craft documentation sheets. Students will prepare a final craft documentation portfolio, including state-wise craft research, material and technique descriptions, artisan references, and proposed interior design applications.

Reference Books:

1. *Arts & Crafts of India* – O.C. Ganguly
2. *Indian Handicrafts* – Kamaladevi Chattopadhyay
3. *Crafts of India* – Charles Fabri
4. *Handmade in India* – Ministry of Textiles
5. *Indian Arts & Crafts* – R. V. Chakravarty
6. EPCH, DCH and IGNCA craft documentation journals

Semester V			
Course Title	**DESIGN COMPOSITION SKILLS**	**Credits:**	**2**
Course Code	**SEC-502**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		
CO1	Students will understand the fundamentals of design composition including balance, hierarchy, color theory, typography, grids and visual alignment.		**PO1**
CO2	Students will learn to compose architectural/design sheets in portrait & landscape formats across A1, A2, A3 sizes using proper layout techniques.		**PO6,7**
CO3	Students will be able to apply font selection, text sizing, spacing, margins, and arrangement to create visually strong compositions.		**PO6,7**
CO4	Students will develop skills to create a professional design portfolio with organized content, sheet sequencing, and graphical consistency.		**PO6,7**
CO5	Students will learn to prepare industry-standard CVs and presentation documents for academic and professional use.		**PO1,6,7**

Objective: To develop students' visual communication and presentation abilities through understanding composition, color, typography, layout, sheet arrangement, and portfolio development. Students will learn to design and compose architectural sheets, prepare a professional portfolio, and create a resume suitable for industry requirements.

Module I- Fundamentals of Composition

Design composition: meaning, concept and importance, Principles of design – balance, hierarchy, rhythm, emphasis, harmony, contrast, Elements of design – line, shape, form, colour, texture, space. Introduction to colour theory – colour wheel, schemes, usage in composition. Introduction to typography – serif, sans serif, font weight, readability.

Module II-Text, Fonts, Color & Graphic Elements

Font selection, text sizing, spacing, kerning, leading, using color in design sheets—highlighting, emphasis, mood creation. Use of graphical elements—icons, lines, borders, annotations. Creating visual flow through placement & alignment. Common composition mistakes & correction techniques.

Module III- Sheet Layout & Drafting Composition

Understanding sheet sizes – A1, A2, A3 (portrait & landscape formats),Margins, title block placement, grid systems, spacing & alignment.Arrangement of plans, elevations, sections, text, images & renderings.Hierarchy of information on design sheets and Manual /digital sheet composition exercises.

Module IV- Portfolio Development

Types of portfolios—academic, professional, digital. Page formatting, visual consistency, sequencing of projects 'Cover page design, index, project presentation layout. Image editing, diagram presentation, rendering arrangement. Preparation of complete portfolio (A3 digital/printed).

Module V-CV Designing & Final Presentation

Components of a professional CV—objective, education, skills, projects, achievements. Designing CV layouts—minimalist, corporate, creative styles.Integrating design aesthetics—fonts, spacing, icons. Final composition project-3 composed sheets (A1/A2/A3), Portfolio submission, CV + cover page design.

Reference Books:

1. Graphic Design: The New Basics – Ellen Lupton
2. Layout Essentials – Beth Tondreau
3. Making and Breaking the Grid – Timothy Samara
4. Portfolio Design – Harold Linton
5. Principles of Form and Design – Wucius Wong

SEMESTER -VI

Semester VI			
Course Title	**ADVANCE PROFESSIONAL PROJECT MANAGEMENT**	**Credits:**	**4**
Course Code	**BSC DSC-606**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	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
CO2	This will include understanding and implementations, the responsibilities and scope of work as a designer.		PO6,7,8,9,10
CO3	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
CO4	Student will gain knowledge about types of startups and companies.		PO6,7,8,9,10
CO5	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-
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, Pitsburgh, 2000)*
4. *Construction Project Management – Frederick E.Gould (Wentworth Institute of Technology, Vary E.Joyce, Massachususetts Institute of Technology, 2000)*
5. *Project Management – Choudhury, S. (Tata McGraw Hill Publishing Co., New Delhi, 1988)*

Semester VI			
Course Title	**EXHIBITION**	Credits:	**2**
Course Code	**BSC DSC- 607**		
Learning Level	**BTL**		
CO	**COURSE OUTCOMES**		**PO**
CO1	Ability to understand exhibition purpose, select themes, analyze target audiences, and create concept notes, mood boards, and initial visual direction.		**PO6,7,9**
CO2	Ability to plan layouts, circulation, zoning, and display systems using visual merchandising principles while ensuring safety and accessibility.		**PO6,7,9,10**
CO3	Ability to choose appropriate materials, develop props/products, prepare working drawings, and execute prototypes with attention to detailing, sustainability, and budget.		**PO1,2,3,7,9**
CO4	Ability to design lighting schemes, use appropriate fixtures, develop graphic elements, signage, and digital media to enhance the exhibition experience.		**PO1,2,3,5**
CO5	Ability to plan and supervise on-site installation, manage teams, troubleshoot issues, and prepare complete documentation including drawings, photographs, reports, and portfolio work.		**PO1,3,4,9**

Objective: *To equip students with the creative, technical, and practical skills required to conceptualize, plan, design, and execute visually compelling and functional exhibition spaces by integrating thematic development, space planning, material selection, lighting, graphics, fabrication techniques, and professional on-site installation practices.*

Module 1: Theme Selection & Concept Development

Understanding exhibition purpose, types & importance of theme
Brainstorming, idea mapping & theme finalization
Concept note preparation
Target audience identification
Mood board, colour story & inspiration board
Initial sketches & visual direction
Case studies of successful theme-based exhibitions

Module 2: Space Planning, Layout & Display Design

Site study, measurements & constraints
Layout types: grid, free-flow, circular, interactive
Zoning: entrance, focal area, display area, visitor pathways, exit
Circulation & movement planning
Visual Merchandising principles:
Balance, rhythm, harmony, scale, proportion
Focal point creation
Display systems: table-top, pedestal, wall-mounted, modular racks
Product grouping techniques: vertical, horizontal, pyramid, storytelling
Safety & accessibility guidelines

Module 3: Materials, Props, Product Development & Fabrication

Material selection for display: wood, MDF, metal, fabric, acrylic, cardboard
Eco-friendly& sustainable material options
Prop-making techniques & creative installations
Working drawings & fabrication details
Budget planning for materials & labour
Students' own product development:
Concept design
Small décor products (lamps, wall art, planters, table décor)
Model making & prototyping
Finishes & detailing

Module 4: Lighting, Graphics & Visual Communication

Lighting types: ambient, accent, task
Fixtures: track lights, spotlights, LED strips, floodlights
Light placement for mood & highlight areas
Understanding colour temperature & its effect
Graphic design elements for exhibition:
Title panels
Information panels
Wayfinding signage
Branding, logo & theme-based graphics
Digital media: projections, screens, AR/VR options
Printing methods & material choices for graphics

Module 5:Installation, On-Site Execution, Presentation & Documentation

Pre-installation planning & checklist
Task distribution & time management
On-site assembly of displays, props & lighting
Safety measures during setup
Troubleshooting & last-minute corrections
Final presentation of exhibition

Documentation:
Process photographs
Final exhibition images
Drawings, boards & written report

Semester VI			
Course Title	**Portfolio Presentation**	**Credits:**	**4**
Course Code	**BSC DSC- 608**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	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		PO9,10

Objective:*This Subject provides you with an opportunity to start the development of a portfolio for fashion and I*nterior *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 I*nterior *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.

Semester VI			
Course Title	**WORKING DRAWINGS(LAB)**	Credits:	**4**
Course Code	**BSC DSC- 609**		
Learning Level	**BTL**		
CO	**COURSE OUTCOMES**		**PO**
CO1	Understand the fundamentals of working drawings, drafting standards, symbols, and notations.		**PO1,3,7**
CO2	Prepare accurate interior plans including furniture layout, flooring, electrical, plumbing, and false ceiling plans.		**PO1,2,3,4, 5**
CO3	Develop detailed interior elevations, sectional drawings, and finish annotations for walls, partitions, and furniture.		**PO1,2,3,6, 7**
CO4	Create comprehensive furniture working drawings with joinery, hardware, and construction details.		**PO1,2,3,5, 7**
CO5	Prepare professional complete working drawing sets including doors, windows, staircase, services, and documentation aligned with industry standards.		**PO1,5,9,1 0,11**

Module I – Introduction to Working Drawings & Drafting Standards

- Definition, purpose, and importance of working drawings
- Types of drawings used in interiors
- BIS & SP-46 standards, symbols, notations, line types
- Lettering, dimensioning, scaling, and drawing conventions

Module II – Plans for Interior Projects

- Furniture layout plan
- Flooring plan with material specification
- Electrical & lighting layout
- False ceiling plan
- Plumbing & sanitary layout
- Use of legends, schedules, and material keys

Module III – Elevations, Sections & Interior Detailing

- Wall elevations for all interior spaces
- Sectional elevations showing heights & service integration
- Finish annotations & material indications
- Detailed drawings for wall panelling, cladding, partitions, storage units

- Ergonomic considerations in detailing

Module IV – Detailed Furniture Working Drawings

- Working drawings of modular kitchen, wardrobes, TV unit, study table, bed
- Exploded views, joinery details, hardware specification
- Standard sizes, construction details, plywood/laminate/edge banding detailing
- Technical drawings for custom furniture pieces

Module V – Doors, Windows, Staircase & Professional Drawing Set

- Door & window schedules with frame, shutter & hardware detailing
- Staircase plan, elevation & section
- Service integration drawings (basic HVAC, fire safety symbols)
- Preparing a complete working drawing set
- Sheet organization, title block standards & BOQ alignment
- Common drafting errors & quality control checklist

Reference books

1. *Architectural Graphics* – Francis D.K. Ching
2. *Time-Saver Standards for Interior Design and Space Planning* – Joseph DeChiara, Julius Panero, Martin Zelnik

Semester VI			
Course Title	**ACOUSTICS IN INTERIOR DESIGN (Theory)**	**Credits:**	**4**
Course Code	**BSC DSC-609**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
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.)*

Semester VI			
Course Title	**LIGHTNING IN INTERIOR DESIGN(Theory)**	**Credits:**	**4**
Course Code	**BSC DSE-604**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
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 and 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

Semester VI			
Course Title	**Internship(Commercial Or Residential)**	**Credits:**	**4**
Course Code	**BSC DSE-603**		
Learning Level	**BTL**		
CO	COURSE OUTCOMES		PO
CO1	To observe and learn the tools, techniques and design process from consultants		PO10,9,2

Objective:

a) *Identification (name, headquarters, legal documents, size, history…)*
b) *Settlement Area (settlement area in Lebanon or abroad)*
c) *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*
d) *Organizational chart*
e) *Relationships with the external environment (optional*

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.