

Curriculum & Syllabus
B.Sc (Hons.) in INTERIOR DESIGNING

Paper Code	Subject	Th	Marks	Credit Points	Pg. No.
SEMESTER-I					
BSc 101	Communication Skills & Personality Development Workshop	Pr	100	4	
BSc 102	Design Fundamentals	Th	100	4	
BSc 103	Design Fundamentals	Pr	100	4	
BSc 104	Graphics & Basic Drawings	Pr	50	2	
BSc 105	Interior & Construction Technology I	Pr	50	2	
BSc 106	Building Materials	Th	50	2	
BSc 107	Freehand & Measured Drawing	Pr	50	2	
BSc 108	Design Studio I	Pr	100	4	
TOTAL			600	24	
SEMESTER - II					
BSc 201	Principles of Architecture - History, Theories, Terminology, etc.	Th	100	4	
BSc 202	Residential Space Planning	Th	50	2	
BSc 203	Furniture Design and Furnishings	Th	50	2	
BSc 204	Interior & Construction Technology II	Th	50	2	
BSc 205	Residential Space Planning I	Pr	100	4	
BSc 206	Furniture Design and Furnishings	Pr	50	2	
BSc 207	Behavioral Science, Environment, Ecology	Th	100	4	
BSc 208	Design Studio II	Pr	100	4	
TOTAL			600	24	
SEMESTER - III					
BSc 301	Working Drawings and Presentation Techniques	Pr	100	4	
BSc 302	Line Sketches and Familiarization of Students with CAD	Pr	50	2	
BSc 303	Interior & Construction Technology III	Th	50	2	
BSc 304	Colour in Interior Design	Th	50	2	
BSc 305	Lighting in Interior Design	Th	50	2	
BSc 306	Introduction of Vastu and Feng Shui	Th	50	2	
BSc 307	Residential Space Planning II	Pr	100	4	
BSc 308	Designing according to the user's lifestyle and requirements	Pr	50	2	
BSc 309	Design Studio III	Pr	100	4	
TOTAL			600	24	

SEMESTER - IV					
BSc 401	Commercial Space Design I	Th	50	2	
BSc 402	Commercial Space Design I	Pr	100	4	
BSc 403	GROUP PROJECT: Presentation of a Case Study of Live Project	Pr	50	2	
BSc 404	Estimation and Costing	Th	50	2	
BSc 405	Computer – InDesign, Photoshop, Corel Draw	Pr	100	4	
BSc 406	Interior & Construction Technology IV	Th	50	4	
BSc 407	Design Studio IV	Pr	100	4	
BSc 408	End of Semester Submission : TEAM BASED PRESENTATION	Pr	100	4	
TOTAL			600	24	
SEMESTER - V					
BSc 501	Commercial Space Design II	Pr	100	4	
BSc 502	Ethics and Environmental Studies Green and Energy Efficient Buildings	Th	50	2	
BSc 503	Interior Design for Special Needs	Th	50	2	
BSc 504	Landscape and Gardening	Th & Time Sketch	50	2	
BSc 505	Computer – 3D Max	Pr	50	4	
BSc 506	Design Studio V	Pr	100	4	
BSc 507	End of Semester: SEMINAR - topic as deemed suitable		100	4	
TOTAL			500	22	
SEMESTER – VI					
BSc 601	Internship (4-6 weeks duration)		100	2	
BSc 602	Using Discarded Materials for Interior Design and Furniture	Th & Pr	50	2	
BSc 603	Restoration and Renovation of Building Interiors	Th	50	2	
BSc 604	Entrepreneurship Management	Th	50	2	
BSc 605	Low cost interior designs & Space Saving Furniture	Th	50	2	
BSc 606	Design Studio VI	Pr	100	4	
BSc 607	Interior Design for Special Needs	Pr	50	2	
BSc 608	Professional Practices	Th	50	2	
BSc 609	End of Semester Submission : INTERNSHIP PORTFOLIO DISSERTATION		100	4	
TOTAL			600	24	
GRAND TOTAL				3500	

SEMESTER I

BSC 101

Full Marks: 50

Communication Skills & Personality Development Workshop (Practical)

Objectives

- To equip the students with the necessary Attitudinal and Communication and presentation skills with or without Power Point Presentation
- Public Speaking
- To train them in developing interpersonal skills

Week 1	<ul style="list-style-type: none"> • Presentation on : Why Soft Skills <p>Sample talk for Public Speaking Topic</p> <p>Select Audio Visual Presentation on Attitudinal training</p>	<p>Presentation on: Enthusiasm/Learn to Listen</p> <p>Public Speaking Exercise: Introduction and narration by each participant on topic 'Happiest Moment of My Life'</p> <p>Write up: Confession of a book lover/ When to keep your mouth shut/ Reading List</p> <p>Take Away Books: Great Speeches/Inspirations</p>
Week 2	<p>Sample Talk</p> <p>Presentation by Exceptional Guest Speaker</p>	<p>Presentation on: Attitude of Gratitude/Attitude to contribute</p> <p>Everyone narrates Acknowledging the contribution made by people in their lives</p> <p>Take Away : Happiness Poster/Thank You Card</p> <p>Book – Attitude to Contribute</p> <p>Write Up – The Lost Art of Thank You notes/What You are Missing in Life/List your most satisfying activities</p>
Week 3	<p>Film Show</p> <p>Sample talk</p>	<p>Presentation on: Nine Magical Expressions/Smile</p> <p>Everyone talks about their strengths, passion & dream</p> <p>Take Away : Dale Carnegie Card-1 (Ash) I am Sorry card/Book – Soft Skill</p> <p>Write Up - 11 ways of positive thinking/A Bad apology is worst than No apology</p> <p>Live The Life of your Dreams</p>
Week 4	<p>Sample Talk on our weakness and how to address them</p>	<p>Presentation on : Placebo effect/Miracle Man/Creative Meditation track 5</p> <p>Everyone talks about their weakness and how to address them.</p>

	Prayers Cards	Take Away – Note – Health and Energy/Auto suggestion card (blue)/Meditation books + c.d/All you have to do is ask)
Week 5	Sample talk	Presentation on Forgiveness / Anger Management Talk... forgive self and others. Take Away – Book – Winning Responses Write Up – Power of Forgiving/Will it hurt my children Book: Love and Marriage.
Week 6		Presentation on: Setback/Charm Talk : Feedback on P.D. classes Take Away : Dale Carnegie Card (11) Write Up – Here is What Winners are made of/The Art of Paying a Compliment
Week 7	Sample talk on Speak to Get Actions	Presentation on: Time Management/Habit/Speak to get action. Everyone Speaks to Get Action Memory Exercise 1 : Write Up : Conducting Small Talk/Story factor Take Away : Memory Cards/Dale Carnegie Cards 111(pink) Book – Time Management
Week 8	Sample talk on Speak to convince	Presentation on Dress To Impress/Speak to Convince/Dining Etiquettes/Memory Exercises Exercise-2. Take away – Book – Skin Care Everyone speaks to convince Write Up – How to Sell an Idea/Let’s put our best voice forward
Week 9		Presentation on : Thinking on Your Feet/Inconvenient Truth Everyone Speaks impromptu on given topics Environment cards Write Up : Thinking on Your Feet
Week 10		Presentations by students. Feedback provided on the presentations
Week 11	Film Show	Final Appraisal of Presentation
Week 12	Film Show	Certificate Distribution

DESIGN FUNDAMENTALS (Theory)

Objectives

To enable the students to:

- Understand elements and principles of art and design
- Learn to appreciate art.
- Develop an understanding of the application of art principles in design composition of traditional and contemporary art, architecture, textiles and interior design.
- Develop skill in creating designs and making art objects

Units	Course Content
1	<p>Introduction to Foundation of Art</p> <ul style="list-style-type: none"> • Design definition and types (structural & decorative) • Elements of design: point, line, shape, form (O-D, 1-D, 2-D, 3-D) • Light: characteristics & classification • Study of colours: classification, dimensions, colour schemes and effect.
2	<p>Principles of Design Composition</p> <ul style="list-style-type: none"> • Contrast & Harmony • Figure: ground relationship, grouping of figures, elements by spatial tension & likeness basis • Unity in diversity or variety • Balance • Movement • Proportion or scale • Rhythm • Dominance or subordination
3	<p>Historical Evolution of Art</p> <p>Primitive, classic, modern art movements and evolution.</p>
4	<p>Appreciation of Art</p> <ul style="list-style-type: none"> • In term of principles of art and design In terms of composition and aesthetic appeal
5	<p>Application of Element of Design & Principles of Design Composition in Interiors Including the Role of Accessories</p>

References

1. Bhat Pranav & Goenka Shanita, *The Foundation of Art & Design*, Lakani Book Depot, Bombay, 1990.
2. Goldstein, H & Goldstein V, *Art in Everyday Life*, Oxford & IBH Publishing Company, New Delhi, 1967
3. Rutt Anna Hong, *Home Furnishing*, Wiley Eastern Pvt. Ltd., 1961

DESIGN FUNDAMENTALS (Practical)

Objectives

To enable the students to:

- Understand elements and principles of art and design.
- Learn to appreciate art.
- Develop an understanding to the application of art principles in design composition of traditional and contemporary art, architecture and textiles in interior design.
- Develop skill in creating designs and making art objects.

Units	Course Content
1	Design Sheets of Colour Scheme Effects Achromatic, hue, value, intensity with suitable medium
2	Drawing Sheets of Various Figure - Ground Relationships
3	Drawing sheets of Spatial Tension in Achromatic
4	Drawing Sheets of Likeness Basis Shape, size, position (direction interval & attitude), colour, texture, representation, association, symbolism
5	<ul style="list-style-type: none"> • Drawing Examples of Absolute Variety in Absolute Unity (Hogarth's Line of Beauty) • Drawing Examples of Attraction & Attention Differences
6	Drawing Sheet on Movement & Balance
7	Drawing Sheet on Proportion & Rhythm
8	Restricted Composition Sheet with Dominance & Subordination
9	Preparation of Brief Report on Evolution of Art
10	Drawing Sheets on Typical Interior Compositions Walls, floors, ceilings with views from different angles.

References

1. Bhat Pranav & Goenka Shanita, *The Foundation of Art & Design*, Lakhani Book Depot., Bombay, 1990
2. Goldstein H & Goldstein V, *Art in Everyday Life*, Oxford and IBH Publishing Company, New Delhi, 1967.
3. Rutt Anna Hong, *Home Furnishing*, Wiley Eastern Pvt. Ltd., 1961
4. Scott R G, *Design Fundamentals*

GRAPHICS / BASIC DRAWINGS (Theory & Practical)

Objectives

To enable the students to:

- To learn the technical skills to present drawing to impress the clients.
- To know the concept of designing 2d & 3d views of the furniture & rooms

Units	Course Content
1	Scale & Lettering <ul style="list-style-type: none"> • What is engineering drawing? • Scale: full size, true scale, enlarging scale, reducing scale • Border lines, name plate. • Lettering: single stroke, double stroke, vertical/ inclined, capital letters, and inclined letters. • Dimensioning.
2	Geometrical Construction <ul style="list-style-type: none"> • Point, line and concept of distance • Divide a straight line into a given number of equal parts. • Construction of angles, planes and solid • Orthographic projection of solids: cube, cylinder, pyramids on a base of a square, rectangle, circle, triangle, pentagon, hexagon, etc.; blocks intersecting at different angles; blocks recessed at different angles; development of surfaces (economical); conversion of pictorial to orthographic views
3	Isometric projections of solids Cube, cylinder, pyramids, on a base of a square, rectangle, circle, triangle, pentagon, hexagon, septagon

References

1. French Thomas E, *Engineering Drawing & Graphic Technology*, McGraw Hill, New York.
2. Millar Max, *Know How to Draw*, B T Batsford Ltd., London
3. Shah, Kale & Patki, *Building Drawing*, Tata McGraw Publishing Co., New Delhi

Interior & Construction Technology I (Practical)

Objectives

To enable the students:

- To Practically understand the function of important building materials
- Their quality perception and their various application and use at work sites

Units	Course Content
1	Materials- Characteristics, Behaviour, Ability-Use
2	Bricks/ Terracotta
3	Lime
4	Cement
5	Stone
6	Wood
7	Steel
8	Glass
9	Aluminium
10	Metals
11	Plastics
12	Membrane and Paints
References	
<ol style="list-style-type: none"> 1. YouTube videos on construction operation using various building materials 2. Latest construction technologies such as precast modular building and home construction 	

BUILDING MATERIALS (Theory)

Objectives

To enable the students:

- To become aware of the existing and new trends and availability of construction materials.
- To learn to make wise selection of suitable building materials for various surfaces.
- To learn to compare the cost of different building materials and make worthy selection

Units	Course Content
1	Construction Materials <ul style="list-style-type: none"> • Cementitious materials: types, qualities, properties desired, place of availability merits demerits, uses, prevention & care of stone, bricks, cement, lime, sand, mortar, concrete and plaster • Wood, metal & other materials: wood (natural & artificial): metals (aluminium based, copper based, lead based, nickel based, iron based, steel based), plastics, rubber, glass, tiles, asbestos
2	Paints & Varnishes
3	Fire Resistance Properties of Materials
4	Prefabricated & Eco-friendly Building Materials

References

1. Arora S P & Bindra S P, *Building Construction*, Dhanpat Rai & Sons, New Delhi, 1990.
2. Deshpande R S, *Build Your Own Home*, Poona Book Corporation, Pune, 1985
3. Deshpande R S, *Engineering Materials for Diploma Students*, Poona Book Corporation, Poona, 1985
4. Deshpande R. S, *Modern Ideal Homes for India*, Poona Book Corporation, Poona, 1976
5. Mehra. P, *Interior Decoration*, Hind Pocket Books Ltd., Delhi, 1981

FREEHAND & MEASURED DRAWING (Practical)

Objectives

To enable the students to:

- To get acquainted with drawing freehand
- To learn the importance of correct measurements in architectural drawings

Units	Course Content
1	<p>Free Hand Drawing</p> <ul style="list-style-type: none"> • Free hand drawing of geometrical figures • Free hand drawing of certain pieces of furniture • Free hand drawing of designs to be incorporated as elements in interior design e.g. Designs of cornice, ornamented pillars, carved chair etc • Free hand sketches of front elevation of rooms • Free hand sketches of different views of room ie. one point & Two point • Free hand reduction & enlargement of drawings
2	<p>Measured Drawing</p> <ul style="list-style-type: none"> • Measuring a bed room with attached bath & furniture layout: drafting it to scale, judgement & analysis of plan, concept of revised plan • Measuring a complete apartment: drawing it to scale, judgement& analysis of plan, concept of revised plan
<p>References</p> <ol style="list-style-type: none"> 1. De Chiara Joseph & Callender John, <i>Time Saver Standards for Building Types</i>, McGraw Hill Book Co. 2. Gill Robert, <i>Rendering with Pen & Ink</i>; Thames & Hudson. 3. Shah, Kale & Patki, <i>Building Drawing</i>, Tata McGraw Hill Publishing Co., New Delhi 	

BSC 108

Full Marks: 100

Design Studio I (Practical)

<p>Objectives</p> <p>To enable the students:</p> <ul style="list-style-type: none"> • To learn by doing things • To familiarize students with various softwares used in construction and interior design profession for design estimation and project management 	
Units	Course Content
1	Case Study Approach – Typical Residential Unit Fully Operational
2	Detail Documentation, Drawing, Observation and Notes,
3	Quantification, Reporting, Presentation
<p>References</p> <ol style="list-style-type: none"> 1. Kevin Lynch. The Image of the city. The MIT Press, 1960. 	

2. Christopher Alexander. A Pattern language: towns, buildings, construction. Oxford University Press, 1978.
3. Kenneth Frampton. Studies in Tectonic Culture: The Poetics of Construction in Nineteenth and Twentieth Century Architecture. The MIT Press, 1995.

SEMESTER II

BSC 201

FullMarks:100

PRINCIPLES OF ARCHITECTURE (History, Theory, Terminology,etc)

<p>Objectives</p> <p>To enable the students to:</p> <ul style="list-style-type: none"> • Acquire knowledge of principles involved in planning of architectural spaces. • Develop understanding about building standards and features of construction regarding architectural spaces 	
Units	Course Content
1	<p>Brief History of Architecture:</p> <ul style="list-style-type: none"> - Wisdom of the Ancients Thro River Valley Civilization - Classical World - Early Christianity and Christian Kingdoms - The age of Church Building - Idea of Re-birth and Renaissance in Europe
2	<p>Application of Elements & Principles of Design</p>
3	<p>Planning Spaces</p> <ul style="list-style-type: none"> • Features of planning e.g. zoning, circulation, climatic considerations. • Assessing activities and estimating space requirements for activities. • Space allocation and planning. • Principles of planning. • Building standards and by-laws.
4	<p>Features of Construction of Building Components</p> <ul style="list-style-type: none"> • Types of structural systems: trabeated, arcuated, framed, shell, tensile, pneumatic • Features of construction of building components: foundation, plinth, beam, column, slab, wall, roof, lintel, door, window, staircase
5	<p>Aesthetics in 3-D Space Planning & Design.</p>
6	<p>Basic Terminologies of Architecture</p>

References

1. Sir Banister Fletcher, A History of Architecture, CBS Publications (Indian Edition), 1999
2. Spiro Kostof – A History of Architecture – Setting and Rituals, Oxford University Press, London, 1985
3. Leland M Roth; Understanding Architecture: Its elements, history and meaning; Craftsman House, 1984
4. Allen Edward, *How Buildings Work!* Oxford University Press
5. De Chiara Joseph & Callender John, *Time Saver Standards for Building Types for Architectural Types, Interior Design*, McGrawHill Book Co.
6. Leniham J & Fletcher W W, *The Build Environment*, Environment & Man, Vol. 8
7. Blackie McKay W B, *Building Construction*, Vol 1-4, Orient Longman
8. Shah, Kale & Patki, *Building Drawing*, Tata McGraw Hill Pub. Co., New Delhi.
9. Technical Teachers Training Institute, *Civil Engineering Materials*, Tata McGraw Hill

BSC 202

Full Marks: 50

RESIDENTIAL SPACE PLANNING (Theory)

Objectives

To enable the students to:

- Acquire knowledge of principles of Interior Design for residential spaces.
- Learn to provide adequate facilities for work, relaxation, comfort, privacy, aesthetics, and maintenance through design and proper choice of materials, services, fittings and fixtures in interiors of residences.
- Gain understanding of furniture design through anthropometric measurements.

Units	Course Content
1	Introduction to Interior Design
2	Study of Factors Influencing Decisions Related to Furnishing of Residential Interior Spaces Principles of design, needs and preferences, climate, availability and budget
3	Factors to be Considered While Designing Interiors <ul style="list-style-type: none"> • Regulation and Bylaws of the plan sanctioning authority • Establishment of areas for different units - function, furniture requirement & number of persons • Orientation • Grouping of user's area • Circulation between and within user's area • Light and Ventilation • Flexibility • Privacy • Roominess (spaciousness) • Services • Aesthetics • Requirement for air conditioning & central heating • Cost

4	<p>Assessing & Allocating Space for Various Activities in Different Rooms</p> <ul style="list-style-type: none"> • Living Room • Dining Room • Bedrooms • Kitchen • Pantry • Foyer, Lobby, Corridors • Store • Balcony / open areas
5	<p>Anthropometry & Biomechanics</p> <ul style="list-style-type: none"> • Definition & scope • Physical dimensions of human body as a working machine • Human body as a system of levers • Identification & analysis of posture • Effect of wrong posture on cardiovascular & musculoskeletal system (back trouble, inter vertebral disc pressure, lower back and inter abdominal pressure) • Correct technique for lifting and carrying weight. Principles of motion economy • Design application of anthropometry • Design of equipments and tools according to consumer ergonomics. • Study of basic furniture dimensions based on anthropometries measurements
6	<p>Furniture requirements in the afore mentioned rooms</p>
<p>References</p> <ol style="list-style-type: none"> 1. AganTessi, <i>The House - Its Plan and Use</i>, JB Lippincott & Co.,1976 2. Alexander NJ <i>Designing Interior Environment</i>, Harcourt Brace, Johanovich, New York 3. Allen Edward, <i>How Buildings Work</i>, Oxford University Press 4. Conran T, <i>New House Book</i>, Guild Publishing, London 5. De Chiara Joseph &Callender John, <i>Time Saver Standards for Building Types forArchitectural Types,Interior Design</i>,McGrawHili Book Co. 6. Deshpande, R S, <i>Modern Ideal Homes for India</i>, United Book Corporation, 1974 7. Faulkner S. <i>Planning a House</i>, Holt, Richard &Winson 8. Grandjean E, <i>Fitting the Task to the Man</i>; Taylor & Francis, London, 1988 9. Leniham J &Fletcher W W, <i>The Build Environment</i>, Environment & Man, Vol. 8, Blackie 10. ReviAromar, <i>Shelter in India</i>, Vikas Publishing House, New Delhi 	

FURNITURE DESIGNING & FURNISHINGS (Theory)

Objectives

To enable the students to :

- To acquire knowledge about the various materials used in furniture.
- To know the multiple use of furniture keeping the constraints of available space.
- To appreciate the contribution of furnishings in satisfying family living.
- To learn principles that will help one to judge the design of furnishing relative to their function and beauty.

Units	Course Content
1	History of Furniture Style
2	Traditional, Contemporary & Modern Indian Furniture
3	Basic Materials Used for Furniture Types of wood, processed wood (block boards, laminates, veneers, particle board), metals, cane & other wicker materials, plastics, fibre glass
4	Finishes Used on Furniture Varnish, polish, lacquer, melamine, paints, staining
5	Study of Basic Furniture Dimensions Based on Anthropometric Measurements
6	Flexible Furniture (Need & Design)
7	Furniture Care & Maintenance
8	Types of Furnishings Curtains, draperies, upholstery, bedspreads cushion covers, loose covers, blinds, carpets and rugs Leather, rexine&fibreglass as furnishing material
9	Selection of Material for Furnishing Colour, pattern, texture, style, cost, durability, maintenance etc
10	Care and Maintenance of Furnishing Materials

References

1. Charlotte & Peter Fiell, *Modern Furniture Classics Since 1945*; Thames & Hudson
2. Cornan Terence, *New House Book*, Guild Publishing
3. Darby Tom, *Making fine furniture*; Guild of Master Craftsman Publications
4. De Chiara Joseph & Callender John, *Time Saver Standards for Architectural Types and Interior Design & Space Planning*; McGraw Hill Book Co.
5. Grandjean E, *Fitting the task to the Man*, Taylor & Francis, London, 1988

Interior & Construction Technology II(Theory)

Objectives

To enable the students to:

- Understand various factors to be kept in mind to ensure sustainability, safety and longevity while designing a building and/or any super structure

Units	Course Content
1	Structural Systems
2	Load, Support, Span
3	Structural Behaviour
4	Compression, Tension
5	Influencing Factors- Seismic, Wind, Time

References

1. **Agnew, J.C.** 'A House of Fiction: Domestic Interiors and the Commodity Aesthetic', in Bronner, S. (ed.) *Consuming Visions: Accumulation and Display of Goods in America 1880-1920*. New York: Norton, 1989.
2. **Ayres, James.** *Domestic Interiors: The British Tradition, 1500-1850*. New Haven and London: Yale University Press, 2003.
3. **Baker, Malcolm.** 'Public Images for Private Spaces? The Place of Sculpture in the Georgian Domestic Interior', *Journal of Design History*, 20:4 (2007), 309-23.
4. **Beard, Geoffrey.** *Craftsmen and Interior Decoration in England, 1660-1820*. London: Bloomsbury Books, 1986.
5. **Bryant, Julius.** 'Curating the Georgian Interior: From Period Rooms to Marketplace?', *Journal of Design History*, 20:4 (2007), 345-50.

RESIDENTIAL SPACE PLANNING I

Objectives

To enable the students to :

- Acquire knowledge of principles of Interior Design for residential spaces.
- Learn to provide adequate facilities for work, relaxation, comfort, privacy, aesthetics & maintenance through design & proper choice of materials, services, fittings & fixtures in interiors of residences.
- Gain understanding of furniture design through anthropometric measurements

Units	Course Content
1	Study & Analysis of Basic Floor Layouts (Standards) in Relation to Principles of

	Interior Designing. Planning simple furniture layouts of the different interior spaces such as: living room, dining room, bedroom, bathroom, kitchen, pantry, utility, foyer, corridor, passage, balcony etc
2	Planning a One-Bedroom Apartment, Mezzanine Floor, Work Studio etc. with Furniture Layout.
3	Complete Floor Layouts & Furniture Layouts <ul style="list-style-type: none"> • Two bedroom apartment • Four bedroom apartment • Duplex.
4	Judging & Analyzing the Afore-Mentioned Plans & Calculation of Planning Efficiency
5	Sectional Elevations of the Simple Furniture Layouts of the Different Interior Spaces
6	Application of Colour, Texture & Pattern through Techniques of Rendering & Presentation

References

1. Black Maggie, *Design for Living*, Ward Lock Ltd.
2. Blacke Sill, *Storage & Shelving*, Cresent Books, New York
3. Clifton MoggCanoline, *The Habitat Home Decoration*; Octopus Cannom
4. De Chiara Joseph & Callender John, *Time Saver Standards for Architectural Types & Interior Design & Space Planning*, McGraw Hill Book Co.
5. Neufert, *Architects Data*, Blackwell Publishing, 3rd ed.

BSC 206

Full Marks: 50

FURNITURE DESIGNING & FURNISHINGS

Objectives

To enable the students to:

- To acquire knowledge about the various materials used in furniture.
- To know the multiple use of furniture keeping the constraints of available space. To learn to care & maintain the furniture with various finishes.
- To appreciate the contribution of furnishings in satisfying family living.
- To recognize the importance of wise decision making in selection, use and care of home furnishings.
- To learn principles that will help one to judge the design of furnishing relative to their function and beauty.

Units	Course Content
1	History of Furniture Style Sketches of period furniture
2	Determination of Body Dimensions by Anthropometric Equipments <ul style="list-style-type: none"> • Determination of body composition

	Statistical analysis of the data and interpretation of findings
3	Orthographic Projections of Simple Furniture Pieces such as chair, table, bed, cupboard, wardrobe, cabinets etc
4	Isometric Projections of Furniture Units
5	Wooden Joinery & Carpentry The different types of joineries used in making furniture
6	Furniture Detailing Detailed drawing of different types of furniture with their joineries
7	Preparing furniture models
8	Application of Furnishing <ul style="list-style-type: none"> • Window treatment • Floor coverings • Upholstered furniture
9	Market Survey of Furniture Materials, Furniture Finishes & Furnishings

References

1. Charlotte & Peter Fiell, *Modern Furniture Classics Since 1945*, Thames & Hudson
2. Darby Tom, *Making Fine Furniture*; Guild of Master Craftsman Publications
3. De Chiara Joseph & Callender John, *Time Saver Standards for Architectural Types & Interior Design & Space Planning*; McGraw Hill Book Co.
4. Gilliatt Mary, *The Decorating Book*; Michael Joseph
5. Grandjean E, *Fitting the Task to the Man*; Taylor & Francis, London, 1988
6. Kasu Ahmed, *An Introduction to Art, Craft, Science, Technique & Profession of Interior Design*, Ashish Book Centre, Delhi, 2005

BSC 207

Full Marks: 100

Behavioral Science, Environment, Ecology (Theory)

Objectives

To enable the students to :

- Understand the influence of surrounding color/temperature/aesthetics/sound, etc or human behavior and to be able to integrate the same while designing
- To be able to design an enabling environment

Units	Course Content
1	Perception of Space and their experience, Environment and Interior, Ecology and Interior, Energy consumption,
2	Green Aspects- Indoor Plants

3	How to minimise Waste, understanding contemporary design agenda, social audit
4	Effects of colour on Human Behavior
5	Effects of music on Human Behavior
6	Harmony of Nature required by Humans

References

1. Beisner, Beatrix and Kim Cuddington, editors. 2005. Ecological Paradigms Lost: Routes of Theory Change . Academic Press.
2. Blackstone, William T. 1973. Ethics and Ecology. Southern Journal of Philosophy 11: 55–71.
3. Buege, Douglas J. 1996. An Ecologically-Informed Ontology for Environmental Ethics. Biology & Philosophy 12(1): 1–20.
4. Colyvan, Mark. 2005. Probability and Ecological Complexity. Biology & Philosophy 20(4): 869–879.
5. Colyvan, Mark. forthcoming. Population Ecology. In Sahotra Sarkar and Anya Plutynski, editors, A Companion to the Philosophy of Biology. Blackwell.
6. Colyvan, Mark and L. R. Ginzburg. 2003b. Laws of nature and laws of ecology. *Oikos* 101(3):649.

BSC 208

Full Marks: 100

Design Studio II (Practical)

Objectives

To enable the students to :

Understand basic requirements and infrastructural requirements, utilization of design studio and to gain hands on experience about design studio.

Units	Course Content
1	Case Study Approach – Work Space
2	Detail Documentation, Drawing, Observation and Notes, Quantification, Reporting, Presentation
3	Design of Residential Space for a Given Site

References

4. Sigfried Giedion. Space, Time and Architecture: The Growth of a New Tradition. Harvard University Press, 1967
5. William S. Saunders. Nature, Landscape, and Building for Sustainability: a Harvard Design Magazine Reader. Minneapolis, University of Minnesota Press, 2008.
6. Al Gore. The Future: Six Drivers of Global Change. Random House, 2013

SEMESTER III

BSC 301

Full Marks: 100

WORKING DRAWINGS AND PRESENTATION TECHNIQUES (Practical)

Objectives

To enable the students to:

- Understand the proper language of the drawing, which is internationally recognized.
- Proper dimensioning & writing style.
- Each & every details of the organization as per requirements.
- Specifications required as per requirements

Units	Course Content
1	Design of Residences <ul style="list-style-type: none">• Design and drawing of residences (both apartment and detached house) for various built-up areas and consideration of planning principles• Judging and analyzing aforementioned plans• Calculation of planning efficiency
	Working Drawings <ul style="list-style-type: none">• Concept of working drawings & its need & importance• Drawing & drafting of plan• Beam layout & column layout• Development of elevation• Horizontal & transversal sections• Details of stair case• Detailing of all drawings, lettering, dimensioning• Submission details
3	Presentation Techniques <ul style="list-style-type: none">• Rendering & presentation techniques• Pen & pencil rendering• Sciography• Colour rendering

References

1. Frener, Weirick & Foster, *Engineering Drawing & Graphic Technology*, Tata McGraw Hills, New Delhi
2. Gill Robert, *Rendering With Pen & Ink*, Thames & Hudson
3. Muller A.J, *Reading Architectural working drawings*, Prentice Hall Inc.
4. Shah C S, *Architects Handbook*, Galgotia Publishing, New Delhi

LINE SKETCHES AND FAMILIARIZATION OF STUDENTS WITH CAD(PRACTICAL)

Objectives

To enable the students to:

- To design and develop a plan with all the detailing through the use of this software
- To help in formulating and customizing designs with proper presentations

Units	Course Content
1	Introduction about Computer Aided Designing (Essentiality of CAD), Usage of Autocad, Product Show Reel, User Interface of Autocad
2	Understanding Coordinate System, Classification of Autocad Coordinate System, Drafting Basic Shape with Dimension
3	Working with Architectural Unit System, Drawing & Modifying Simple Architectural Block.
4	Drafting Plan of Residential / Commercial Building
5	Drafting Front & Side Elevation of Residential / Commercial Building.
6	Making Layout of Different Sectional Views
7	Making a Complete Interior Layout with All Accessories.
8	Concept of Autocad Plotting. Plotting a Complete Layout
9	Designing & Modifying Complex Architectural Block (Doors, Windows Chajja, Sofa, Wardrobe & Wall Unit).
10	Hatching Different Cross Sections & Applying Various Patterns.
11	Customizing Different Dimension Styles
12	Layout Slide Show
13	Understanding 3rd Dimension & 3d Model Space
14	Working with 3d Primitives, Understanding Camera Trucking, Panning & Dolly.
15	3D Object Transformation, Designing Simple 3D Architectural Blocks.
16	Modifying 3D Block with Boolean Operations.
17	Designing Complex 3D Architectural Accessories with Dimensions.
18	Shading & Texturing With Interior Materials.
19	Placing Virtual Light (Exterior & Interior) within a Final Scene.
20	Rendering Various Perspective Views.
21	Managing Project File, File Import Export, Interoperability Between Autocad & 3D Max.
22	Conversion of Freehand sketch designs for plan and elevation into Computer Aided Designs
23	Points, Lines, Types of Lines, Angles, Triangles, Circles and other types of pictorial projections

References

1. Book on Latest Version of Auto CAD
2. Parker, Charles. *Understanding Computers Today & Tomorrow*. Fort Worth, TX: Dryden Press, 1998.
3. Sabot, Gary. *High Performance Computing Problem Solving with Parallel and Vector Architectures*. Reading, MA: Addison-Wesley Publishing Company, 1995.
4. Taylor, Dean. *Computer-Aided Design*. Reading, MA: Addison-Wesley Publishing Company, 1992.

BSC 303

Full Marks: 50

Interior & Construction Technology III (Theory)

Objectives

To appraise students about various electro-mechanical services and equipments used in various buildings

Units	Course Content
1	Lifts and Escalators / Travelators
2	Service Systems
3	PHE
4	Electrical /Illumination
5	HVAC
6	IT/ Networking
7	Landscape
8	Fire
9	CCTV, Building / Home / Office Management System
<p>References</p> <ol style="list-style-type: none"> 6. Bryden, I. and Floyd, J. (eds). Domestic Space: Reading the Nineteenth-Century Interior. Manchester and New York: Manchester University Press, 1999. 7. Busch, A. Geography of Home: Writings on Where We Live. Princeton, NJ: Princeton Architectural Press, 1999. 8. Calloway, Stephen. Twentieth-Century Decoration: The Domestic Interior from 1900 to the Present Day. London: Weidenfeld & Nicolson, 1998. 9. Cieerad, I. (ed.) An Anthropology of Domestic Space. Syracuse, NY: Syracuse University Press, 1999. 	

BSC 304

Full Marks: 50

COLOUR IN INTERIOR DESIGN (Theory)

Objectives

To enable the students to:

- To understand the theory of colour
- To understand the application of colour in interiors
- To know the effect of light and colour together on interiors

Units	Course Content
1	<p>Introduction to Colour</p> <p>Rodes & cones, after images and their effects</p>

2	<p>The Prang Colour System</p> <ul style="list-style-type: none"> • Hue: classes of colour (primary, binary, intermediate, tertiary, quaternary), neutrals, changing of hues, warm & cool colours, advancing & receding, hues & the seasons. • Value: value of normal colours, tints & shades, changing of values, effects of different values • Intensity: dull and bright colours, complimentary colours, changing of intensity, texture & its influence on intensity & taste
3	<p>The Munsell Colour System</p> <ul style="list-style-type: none"> • The colour sphere • Munsell colour notation • Complementary hues in Munsell colour system • Hue, value, chroma • Colours and emotions • Effect of colour on each other
4	<p>Principles of Design Applied to Colour</p> <ul style="list-style-type: none"> • Harmony in colour: standard colour schemes (related & contrasting harmonies), how to use colour harmonies, background colours, keyed colours through neutralizing, mixing etc • Balance in colours: balancing dull and bright colours, light & dark colours, warm & cool colours, crossing or repetition. • Proportion in colour: law of colour areas • Rhythm in colour • Emphasis in colour
5	<p>Applications of Colour in Various Elements of Interiors Summing up of interiors in various colour schemes and its relation to work output</p>
6	Effect of Colour on Texture
7	Effect of Colour on Light or Colour Rendition
<p>References</p> <ol style="list-style-type: none"> 1. Beazley Mitchell, <i>Colour Book</i>, Reed Consumer Books Pvt. Ltd. 2. Chijiwa Hideaki, <i>Colour Harmony</i>; Rockport Publishers 3. Halse A. O, <i>The Use of Colour in Interiors</i>; McGraw Hill Book Company 4. Stochton Tomes, <i>Designer's Guide to Colour</i>, Chronicle Books 	

LIGHTING IN INTERIOR DESIGN (Theory)

Objectives

To enable the students to:

- To gain insight into the factors to be considered while planning home lighting
- To learn to evaluate the illumination available at task in relation to different activities and plan appropriate lighting
- To know the effect of light and colour together on interiors

Units	Course Content
1	<p>Introduction to Lighting in Interior</p> <ul style="list-style-type: none"> • The household activities with special reference to light requirement • Cultural and social aspects of lighting • Physiology of vision • Lighting sources: natural lighting and artificial lighting (traditional to modern) <p style="text-align: center;">Light measurements and units of measurement of lighting</p>
2	<p>Quantity & Quality of Illumination</p> <p>Quantity of Illumination</p> <ul style="list-style-type: none"> • Factors affecting the quantity of illumination in a room: room proportion, colour, texture and cleanliness of room surface, lamp lumen, lamp lumen depreciation • Competition of room index, coefficient of utilization, maintenance factor of luminance • Planning lighting installation for a given interior space • Evaluation of illumination at task/work place against the recommended requirements of illumination for various activities (ISI & IES recommendations) <p>Quality of Illumination</p> <ul style="list-style-type: none"> • Colour rendition • Spatial distribution of light: direct, indirect, diffused • Glare: illuminance contrast, illuminance uniformity
3	<p>Types of Lighting</p> <ul style="list-style-type: none"> • Local & general lighting • Applied lighting • Architectural lighting • Recessed lighting • Luminous walls & ceilings
4	<p>Luminance & Lighting</p> <p>Controls type, selection, care, maintenance and economic use, lamp holders, lighting switches, motion sensors.</p>
5	<p>Lighting for Outdoor Living & Gardens</p>

References

1. Davidson J, *The Complete Home Lighting Book*, Casell, UK, 1997
2. De Chiara Joseph & Callender John, *Time Saver Standards for Architectural Types & Interior Design & Space Planning*, Mc Graw Hill Book Co.
3. Wieltide, Elizabeth, *Lighting*, Ryland, Peters & Small, London
4. Whitehead R, *Home Lighting Ideas Bedrooms & Baths*, Rockport Publishers, Massachusetts
5. Whitehead R, *Home lighting Ideas Dining Rooms & Kitchen*, Rockport Publishers, Massachusetts

BSC 306

Full Marks : 50

INTRODUCTION OF VAASTU AND FENG SHUI(Theory)

Objectives

To sensitize students with various ancient concepts on Vaastu and Feng Shui and their present relevance

Units	Course Content
1	Various Principles of Indian Vaastu Shastra
2	Various Principles of Chinese Feng Shui and their application in modern building construction and interior design

References

1. "GOLDEN PRINCIPLES OF VASTU SHASTRA Vastukarta". www.vastukarta.com. Retrieved 2016-05-08.
2. Acharya P.K. (1946), *An Encyclopedia of Hindu Architecture*, Oxford University Press
3. Vibhuti Sachdev, Giles Tillotson (2004). *Building Jaipur: The Making of an Indian City*. p. 147. ISBN 978-1861891372.
4. Vasudev (2001), *Vastu*, Motilal Banarsidas, ISBN 81-208-1605-6, pp 74-92
5. Sherri Silverman (2007), *Vastu: Transcendental Home Design in Harmony with Nature*, Gibbs Smith, Utah, ISBN 978-1423601326
6. Gautum, Jagdish (2006). *Latest Vastu Shastra (Some Secrets)*. Abhinav Publications. p. 17. ISBN 978-81-7017-449-3.
7. BB Dutt (1925), *Town planning in Ancient India* at Google Books, ISBN 978-81-8205-487-5; See critical review by LD Barnett, *Bulletin of the School of Oriental and African Studies*, Vol 4, Issue 2, June 1926, pp 391
8. Vibhuti Chakrabarti (2013). *Indian Architectural Theory and Practice: Contemporary Uses of Vastu Vidya*. Routledge. pp. 1–2. ISBN 978-1-136-77882-7
9. *Dunning, Brian. "Feng Shui Today". Skeptoid.com. Retrieved 30 October 2016.*
10. Cheng Jian Jun and Adriana Fernandes-Gonçalves. *Chinese Feng Shui Compass: Step by Step Guide*. 1998: 21

RESIDENTIAL SPACE PLANNING-II (Practical)

Objectives

To enable the students to:

- Learn to provide adequate facilities for work, relaxation, comfort, privacy, aesthetics, and maintenance through design and proper choice of materials, services, fittings and fixtures in interiors of residences.
- Gain understanding of furniture design through anthropometric measurements
- Make designs and working drawings for various residential interior schemes and understanding their execution
- Learn techniques of presentation of designed interiors (manual)

Units	Course Content
1	Complete Floor Layout & Furniture Layouts <ul style="list-style-type: none"> • Single story house • Bungalow
2	Outdoor Planning <ul style="list-style-type: none"> • Offsets according to bye laws • Car park, Drive way • Garage • Lawn setting etc.
3	Terrace Planning <ul style="list-style-type: none"> • Material used for roofing • Laying of roof material & their finish • Sit outs • Terrace gardens etc
4	Judging & Analyzing the Aforementioned Plans & Calculation of Planning Efficiency
5	Sectional Elevations of Planned Areas
6	Perspective of Drawings (One Point & Two Point)
7	Presentation of Drawings (One Point & Two Point)

References

1. Bellis H.F & Schmidt W A, *Blueprint Reading*, McGraw Hill Book Co
2. De Chiara Joseph & Callender John, *Time Saver Standards for Architectural Types & Interior Design & Space Planning*; McGraw Hill Book Co.
3. French Thomas E, *Engineering Drawing & Graphic Technology*, McGraw Hill, New York, New Delhi
4. Gill Robert, *Rendering With Pen & Ink*; Thames & Hudson

DESIGNING ACCORDING TO THE USER'S LIFESTYLE AND REQUIREMENTS(PRACTICAL)

Objectives

- To enable the students to take clients' brief to understand their lifestyle and create appropriate design keeping in mind that their design should meet the clients' functional and aesthetic need
- To enable the budding interior designer to see things from client's/user's perspective
- To bring an ecosystem of peer grading and appraisal

Units	Course Content
1	Case Study Approach – Work Space
2	Detail Documentation, Drawing, Observation and Notes, Quantification, Reporting, Presentation
3	Design of Residential Space for a Given Site

References

1. Berger, C. Jaye. Interior Design Law and Business Practices. New York: John Wiley & Sons, Inc., 1994.
2. Burden, Ernest. Design Communication: Developing Promotional Material for Design Professionals. New York: McGraw-Hill, 1987.
3. Ching, Frank. Illustrated Guide to Interior Architecture. New York: Van Nostrand Reinhold, 1987.
4. Cvoxe, Weld, Maister, David, and The Coxe Group. Success Strategies for Design Professionals. New York: McGraw-Hill, 1987.
5. Dell'Isola, Alphonse, and Kirk, Stephen J. Life Cycle Costing for Design Professionals. New York: McGraw-Hill, 1981.
6. Epstein, Lee. Legal Forms for the Designer. New York: Design Publications, 1977.

Design Studio III (Practical)

Objectives

To enable the students to:

- Learn by doing things (part of hands-on learning)

Units	Course Content
1	Case Study Approach – Speciality – Hospitality, Health Care
2	Detail Documentation, Drawing, Observation and Notes,
3	Quantification, Reporting, Presentation
4	Design of Work Space for a Given Site

References

1. Visit to various sites (field visits) and to submit study report
2. Design briefs from clients according to their requirements and converting design brief to project design and its presentation

SEMESTER IV

COMMERCIAL SPACE DESIGN I (Theory)

Objectives

- To develop the skill in visualizing and designing spaces of commercial interiors considering the principles of designs, anthropometric data and ergonomic criteria.
- To understand the criteria for selection of appropriate material for different surfaces taking into consideration of ergonomic factors, aesthetics and cost..

Units	Course Content
1	Study of Commercial Interior Design with the Perception of Purpose, Function & Aesthetics <ul style="list-style-type: none"> • Basic needs: ergonomic consideration, psychological, aesthetic, occupational and professional development.

	<ul style="list-style-type: none"> • Analysis of clients' specific requirements. • Location. • Space requirement. • Availability of materials. • Design principles. • Budget.
2	Current Trend in Commercial Interior Design
3	Interior Design of Commercial Spaces with Their <ul style="list-style-type: none"> • Types • Planning considerations: functions, orientation, circulation, grouping, light, ventilation, privacy, climatic and ergonomic factors, aesthetics & cost. • Standards • Service (electrical, lighting, water supply, drainage, air conditioning) • Materials & finishes (wood, glass, plastic, metals, acoustical boards, floor covering, panelling materials, false ceiling material) • Furniture details
4	Study of the Following Commercial Space Based on the Above Factors <ul style="list-style-type: none"> • General office design • Office functions: space requirements • History & development: traditional to modern. • Office furniture: work tops, storage, chairs, equipment, workstations or system furniture. • Office features: reception, conference/meeting room, record room, workstations and equipments, pantry, lunchroom, rest rooms/toilets. • Space standards and circulation patterns, flexibility and growth in design, office hierarchy.
	Design of Restaurants, Cafeteria & Fast Food Centre. <ul style="list-style-type: none"> • Guest Contact Area. • Eating Area. • Cooking Area.
	Designing of Educational Facilities Class Rooms Library (small) Hostel
	Designing of Retail Outlets (Books Shops, Boutique, Gift shops, Jewellery Store, Footwear, departmental Store) <ul style="list-style-type: none"> • General principles related to the type of outlet. • Window display for customer attraction • Various areas designated • Storage • Trial rooms

References

1. Alexander, N J, Mercoust Brace, *Designing Interior Environment*, Havanovich Inc.
2. Cerver F A, *Commercial Space, Office Design & Layout*, Rotovision SA
3. Cerver F A. *Commercial Space, Bars, Hotels & Restaurants*, Rotovision SA, Switzerland
4. Cerver F A., *Shops, Malls & Boutiques*, Rotovision SA
5. De Chiara Joseph & Callender John, *Time Saver Standards for Architectural Types & Interior Design & Space Planning*, McGraw Hill Book Co.
6. Gustafsan K & Yes Robert, *Corporate Design*, Thames & Hudson, London
7. *National Building Code of India*, Bureau of Indian Standards, New Delhi, 1999
8. Reznikoff S C, *Specifications for Commercial Interiors*, Whitney Library of Design.

BSC 402

Full Marks: 100

COMMERCIAL SPACE DESIGN I(Practical)

Objectives

- To design detailed interiors for selected purposes.
- To analyze existing examples of selected designs.

Units	Course Content
1	<p>Study & Analyse Existing Interior Design Planning aspects, colour schemes, services, constructional details, furniture design for an office, an educational facility, health club & temporary exhibition stalls</p>
2	<p>Design of Interior Layouts for an Office, an Educational Facility, Health Club & Temporary Exhibition Stalls</p> <ul style="list-style-type: none"> • Presentation drawings (plans & perspectives) • Detailed working drawings (plans, sectional elevations, sanitary and electrical layouts and detailing) • Furniture details
3	<p>Market Survey & Analysis of Materials Associated with Interior Design of Aforementioned Projects & Site Visits</p>

References

1. Cerver E A, *Commercial Space, Office Design & Layout*, Rotovision SA
2. De Chiara Joseph & Callender John, *Time Saver Standards for Architectural Types & Interior Design & Space Planning*, McGraw Hill Book Co.
3. Gustafsan K & Yes Robert, *Corporate Design*, Thames & Hudson, London
4. *National Building Code of India*, Bureau of Indian Standards, New Delhi, 1999

GROUP Project: Presentation of a Case Study of Live Project (Practical)

Objectives

- To give opportunity to students to work independently though under supervision.
- To enable a student to widen his/ her knowledge regarding any relevant and interesting topic on current issues that complements the curriculum or syllabi and has not been covered in the syllabus.
- To become aware of current issues in the field of Interior Designing
- To develop an ability in preparing a presentation.

Course Content

For Project

- During the semester the students are to work on a case study of a live project i.e. the planning, the furniture layout, all the relevant working drawings, estimation and costing of the suggested plan
- During the semester a similar project on any one commercial establishment has to be designed and developed by the student giving all the required drawings

The students would be working under the supervision of a faculty member and would get approval prior to starting the project.

Presentations on both the projects (Residential & Commercial) has to be given at the end of the semester. The student would be evaluated at the end of the project submission and would have to defend her work on the date assigned for it.

For Term Paper

Each student shall be required to carry out under supervision of teacher or teachers, an original investigation work or review work on any relevant topic or a technological problem related to his / her studies. Students would have to submit three copies of typed written and bound dissertation embodying the experiments and results of their investigation.

The paper would be evaluated under the following heads:

- **Selection of Topic**
- **Collection of Review**
- **Assimilation of Literature, References Used.**
- **Viva-voce** (Self understanding), etc

References

1. Journal/magazine
2. Relevant books
3. Dissertation
4. Pamphlets, brochures, newsletters
5. Websites

ESTIMATION & COSTING (Theory)

<p>Objectives</p> <p>To enable the students to:</p> <ul style="list-style-type: none"> • To be aware of the cost of various materials used in interiors. • To enable students to estimate the cost of a product / interior by learning calculation methods. 	
Units	Course Content
1	<p>Importance of Estimation & Costing In Interiors</p> <ul style="list-style-type: none"> • Individual item • A room • A full apartment • A house
2	<p>Main areas of Cost Estimation</p> <ul style="list-style-type: none"> • Walls (plastering, white washing, painting, textured finish, panelling etc.) • Flooring: material, laying • Ceiling: false ceiling, painting etc. • Wood work (material, polishing, varnishing & other applied finishes) • Furniture & furnishing • Plumbing • Drainage • Electrical fittings & layout • Other special features
3	<p>Rules & Methods of Measurement</p>
4	<p>Procedure of Estimating</p> <ul style="list-style-type: none"> • Metric system and primary units • International system of units • Degree of accuracy • Calculations
5	<p>Analysis of Rates</p> <ul style="list-style-type: none"> • Overhead costs • Task or out turn work • Rates of material and labour (quantity take off schedule of item, schedule of rates, schedule of quantities) • Preparing analysis of rates
6	<p>Specifications</p> <ul style="list-style-type: none"> • General specifications • Detailed specification of cement, concrete, R.C.C, brickwork, plastering, painting, white washing, colour washing snowcem, decorative cement colour washing, wood work, varnishing etc.

References

1. Arora B D, *Electrical Wiring, Estimation & Costing*, New Heights, Karol Bagh, New Delhi.
2. Basu, *Economical Building designs*, Basu Publications, Kolkata.
3. Hungtington& Whitney Clark, *Building Construction* John Wiley & Sons Pvt. Ltd.

BSC 405

Full Marks: 100

COMPUTER- INDESIGN, COREL DRAW & PHOTOSHOP (Practical)

Objectives

To enable the students to:

- Develop understanding of vector drawing and creation of design through vector software.
- Develop understanding of photo editing and creation of raster images through software.
- Understanding practical applications of graphic designing.

Units	Course Content
1	Getting Started with Coral Draw <ul style="list-style-type: none">• Introduction to tools selection• Drawing & colouring• Working with text• Applying effects• Working with bitmap & web resources
2	Images in Photoshop <ul style="list-style-type: none">• Introduction to tools selection & colour models• Working with layers• Creating shapes & painting• Transforming & retouching• Colour & tonal adjustment• Filters and their specific effects• Working with type• Saving a file

References

1. Books related to the operation of Coral Draw & Photo Shop.
2. Jeyapoovan, T. (2005). Engineering Drawing and Graphics Using AUTOCAD. India: Vikas Publishing House Pvt Ltd.
3. Chockalingam, P. (1999). Computer Aided Design and Manufacturing - CAD/CAM. Delhi: Paramount Publications.
4. Bertolotti, F., Macrì, D. M., & Tagliaventi, M. R. (2004). Social and Organizational Implications of CAD Usage: A Grounded Theory in a Fashion Company. *New Technology, Work and Employment*, 19(2), 10-127.
5. Kazlacheva, Z. (2005). Optimum Use of Drawing Tools in CAD System in Automated Apparel Design. *Trakia Journal of Sciences*, 3(7), 20-2
6. Zeid, I. (1991). CAD / CAM: Theory and Practice. New Delhi: Tata McGraw Hill Company.
7. Groover, M. P., & Zimmers, E. W. (1999). CAD/CAM: Computer Aided Designing and Manufacturing. New Delhi: Prentice Hall of India.

BSC 406

Full Marks: 50

INTERIOR & CONSTRUCTION TECHNOLOGY IV (Theory)

Objectives

- To inspire students to think out of box
- Create innovative recycling proposals and ensure its implementation

Units	Course Content
1	Waste/Garbage/Dismantling
2	Images in Photoshop
3	Recycling/Up scaling
4	Retrofitting/Restoration
5	Operation
6	Maintenance/Upgrading
7	Studying Best Practices on Waste Recycling from World Over

References

1. Field Visit, Internet Research, Presentation on Waste Recycling, Project Proposal

DESIGN STUDIO IV (Theory)

Objectives

To enable the students to:

- Learning from Doing Things (hands-on learning)

Units	Course Content
1	Design Development for: <ul style="list-style-type: none"> - Typical Residential Interior project- green field for developer - Commercial Interior - Brown Field site for a given client
2	Working Drawing
3	Service Drawings
4	Developing photographs of the stages of construction
5	Green field and brown filed site photography and designing
6	Typical Residential and Commercial Interior Project Formulation.

References

1. Kenneth Frampton. Studies in Tectonic Culture: The Poetics of Construction in Nineteenth and Twentieth Century Architecture. The MIT Press, 1995.
2. Al Gore. The Future: Six Drivers of Global Change. Random House, 2013

END OF SEMESTER SUBMISSION: TEAM BASED PRESENTATION

Objectives

- To give opportunity to students to work independently though under supervision.
- To enable a student to widen his/ her knowledge regarding any relevant and interesting topic on current issues that complements the curriculum or syllabi and has not been covered in the syllabus.
- To become aware of current issues in the field of Interior Designing
- To develop an ability in preparing a report.

Course Content

For Project

- During the semester the students are to work on a residential project designed and developed by them on paper i.e. the planning, the furniture layout, all the relevant working drawings, estimation and costing of the suggested plan
- During the semester a similar project on any one commercial establishment has to be designed and developed by the student giving all the required drawings

The students would be working under the supervision of a faculty member and would get approval prior to starting the project.

Presentations on both the projects (Residential & Commercial) has to be given at the end of the semester. The student would be evaluated at the end of the project submission and would have to defend her work on the date assigned for it.

For Term Paper

Each student shall be required to carry out under supervision of teacher or teachers, an original investigation work or review work on any relevant topic or a technological problem related to his / her studies. Students would have to submit three copies of typed written and bound dissertation embodying the experiments and results of their investigation.

The paper would be evaluated under the following heads:

- **Selection of Topic**
- **Collection of Review**
- **Assimilation of Literature, References Used.**
- **Viva-voce** (Self understanding), etc

References

1. Journal/magazine
2. Relevant books
3. Dissertation
4. Pamphlets, brochures, newsletters
5. Websites

SEMESTER V

COMMERCIAL SPACE DESIGN II (PRACTICAL)

Objectives	
To enable the students to:	
<ul style="list-style-type: none"> • To design detailed interiors for selected purposes. • To analyze existing examples of selected designs 	
Units	Course Content
1	Study & Analyze Existing Interior Design (Planning Aspects, Colour Schemes, Services, Constructional Details, Furniture Design) for a Restaurant / Cafeteria, a Store or Health Facility, a Boutique, a Conference Room and a Polyclinic
2	Design of Interior Layouts for a Restaurant / Cafeteria, a Store or Health Facility, a Boutique, a Conference Room and a Polyclinic <ul style="list-style-type: none"> • Presentation drawings (plans and perspectives) • Detailed working drawings (plans, sectional elevations, sanitary and electrical layouts and detailing) • Furniture details
3	Estimation of Cost for the Abovementioned Interiors
4	Site Visits
References	
<ol style="list-style-type: none"> 1. Cerver F A, <i>Commercial Space, Bars, hotels & Restaurants</i>, Rotovision SA, Switzerland 2. Cerver EA, <i>Shops, Malls & Boutiques</i>, Rotovision SA, Switzerland 3. De Chiara Joseph & Callender John, <i>Time Saver Standards for Architectural Types & Interior Design & Space Planning</i>, McGraw Hill Book Co. 4. <i>National Building Code of India</i>, Bureau of Indian Standards, New Delhi, 1999 5. Reznikoff S C, <i>Specifications for Commercial Interiors</i>, Whitney Library of Design 	

ETHICS & ENVIRONMENTAL STUDIES GREEN AND ENERGY EFFICIENT BUILDINGS (Theory)

Objectives	
<ul style="list-style-type: none"> • To acquaint the students with the problems of the environment and its pollutant. 	
Units	Course Content
1	Human Ethics & Environment <ul style="list-style-type: none"> • Resource consumption pattern and the need for equitable utilization • Equity-disparity in the northern and southern countries

	<ul style="list-style-type: none"> • Urban-rural equity issues • Need for gender equity • Preserving resources for future generations • The ethical basis of environment education and awareness
2	Fundamentals of Environment <ul style="list-style-type: none"> • Environmental definitions • Life and the environment • Changes in the environment: anthropogenic and non-anthropogenic • Environmental hazards and risks • Natural resources: conservation & sustainable development
3	System Concept in Ecology <ul style="list-style-type: none"> • Ecosystem, and its functional attributes • Energy flow in the ecosystem • Material cycling • Development and evolution of ecosystems
4	Population & Environment <ul style="list-style-type: none"> • Carrying capacity: limits to population growth • Population growth and natural resources • Impact of population growth on economic development and environment
5	Land & Water Resources of the Earth <ul style="list-style-type: none"> • Land resources of the earth • Land use pattern • Water resources of the earth
6	Pollution & Environment with Reference to Air, Water, Soil & Noise <ul style="list-style-type: none"> • Concept of pollution • Sources of pollution • Remedies to control pollution
7	Environment & Public Health <ul style="list-style-type: none"> • Environmental pollution and community health • Waste management: types of waste and solid waste management • Environmental registration and policies • Environmental ethics and human rights issues relating to environment • Women and environment
8	Fuel & Energy Management <ul style="list-style-type: none"> • Fossil fuels & solid, liquid and gaseous fuels • Hydel power: potential, limitations and adverse environmental impacts • Solar energy: principle (water heating, refrigeration, cooking, desalination) • Energy from biomass: biogas and gasohol • Energy audits & management • Different measures of energy saving

References

1. Cllicott B, *In Defense of Land Ethics: Essays in Environmental Philosophy*, Albany State University of New York Press, 1989
2. Enrlich P R &Heldren J P, *Human Ecology*, 1973.
3. Nash R F, *The Rights of Nature: A History of Environmental Ethics*, Madison University of Wisconsin Press, 1989
4. Owen D F, *What is Ecology?* Oxford University press, 1974
5. Scheneider S H, *Global Warming: Are We Entering the Greenhouse Century*, 1989

Objectives

To enable the students to:

- To understand the potential and limitations of different energy sources and the environmental impacts of their uses
- To understand the need and the ways of green buildings
- To understand innovations in eco-friendly structures

Units	Course Content	
1	Sources of Energy Classification (nonrenewable and renewable, alternative, conventional & non-conventional)	
2	Solar Energy <ul style="list-style-type: none"> • Principle of liquid collectors • Concentrating collectors and air heaters • Storage devices 	
3	Solar Energy Application of solar energy in water heating, refrigeration, cooking, desalination, power generation, photovoltaic conversions and solar salt ponds	
4	Energy Conservation <ul style="list-style-type: none"> • Utilization of Biogas energy • Waste heat recovery and utilization • Maintenance of domestic heaters, cooking, lighting 	
5	Green Buildings <ul style="list-style-type: none"> • Nature of Green buildings • Principles of Green Buildings • Difference between the conventional and the Green Buildings • Benefits of Green Buildings • Green building Rating System 	
6	Eco friendly Construction Materials Use of eco-friendly construction materials in flooring, walls, ceiling& roof	
7	Energy Efficiency <ul style="list-style-type: none"> • Air conditioning • Lighting System: efficient light sources, dimmer controls, use of natural light and solar light • Wind tower and power generation 	

8	Water Efficiency	
	<ul style="list-style-type: none"> • Recycling of waste water • Rainwater Harvesting • Water Efficient Fittings 	
9	Roof Garden for Efficiency	
TOTAL		63
References 1. Anink, D, <i>Handbook of Sustainable Buildings</i> , James & James, 1997 2. Baggs, Sand J, <i>The Healthy House</i> , Thames & Hudson, London, 1996 3. Woolly & Kimmins, <i>Green Building Handbook</i> , E & FN Spon, 1997		

BSC 503

Full Marks: 50

INTERIOR DESIGN FOR SPECIAL NEEDS (Theory)

Objectives	
<ul style="list-style-type: none"> • To enable the students to acquire knowledge of basic principles involved in planning, organizing & evaluating interiors for special needs 	
Units	Course Content
1	Housing Environments for Physically Handicapped, Old age People, Destitute, Orphan, Deaf & Dumb, Mentally Retarded <ul style="list-style-type: none"> • Study of existing problems - some reflections of the problems • Scope and objectives & ways to overcome through designing • Different research institutions & their functions
2	Ergonomic Factors & Anthropometries Data, Circulation, Work Surfaces for Different Functions, Arrangement & Clearances, Door Width, Kitchen Counter Height, Counter Width, Furniture Suggested for them & their Details <ul style="list-style-type: none"> • For Reading • Studying • Dining • Storing- clothes, books & other daily needs. • Recreational activity • Toilet facilities • Commercial offices • Health care
3	Facilities Provided in Recreational Areas, Public Areas Etc. <ul style="list-style-type: none"> • Public health centres • Cinema halls, • Ramp, slope,

- Parking areas,
- Circulation areas,
- Lifts

References

1. *CPWD Guidelines for Space Standards for Barrier Free Built Environment for Disabled & Elderly Persons*, CPWD, New Delhi.
2. Joseph De Chiara *et.al.*, *Time Saver Standards for Building Types*, McGraw Hill International, Singapore, 3rded., Singapore, 1995.
3. Joseph De Chiara *et.al.*, *Time Saver Standards for Housing & Residential Development*, McGraw Hill International Singapore, 3rded. 1995

BSC 504

Full Marks: 50

LANDSCAPING & GARDENING (Theory & Time Sketch)

Objectives

- To develop an understanding about the importance of functionality and aesthetics of landscaping.
- To enhance knowledge about it's planning, various plant types & care & maintenance.
- To get familiar with the various materials related to landscaping.

Units	Course Content
1	Introduction of Landscaping in Interior Designing Historical reference, concept, importance etc
2	Factors Affecting Planning of Landscaping Location & orientation, climatic conditions, land profile, soil type, water sources, drainage, elements & principles of design
3	Planning of Landscaping (Residential & Commercial) Planning codes & procedures
4	Dimensions of Landscape Space <ul style="list-style-type: none"> • Foreground area (boundary, pathways, parking, arches, porch etc.) • Private living area (recreational area, play area, outdoor seating etc.) • The service area (cleaning area, drying area, garbage area, disposal, water supply, kitchen, garden)
5	Gardening Selection, planting & care (trees, plants, hedges, flowers, lawns, vines, creepers, Indoor plants, bonsai)
6	Gardening on Terrace, Roof, Balcony, Window Sill, etc
7	Garden Furniture

References	
1. Bose T K, <i>Tropical Garden Plants</i> , Kolkata, Horticulture & Allied Publishers, 1991	
2. Cedric Crocker, <i>All About Landscaping</i> , Ortho Books.	
3. Faulkner R & Faulkner S, <i>Inside Today's Home</i> , New York, Holt Rinehart & Winston Inc., 1960	
4. Hooguett Fickle, <i>The Garden</i> , The Netherlands, Rebo Production, Lisse 1977	
5. Learner J M, <i>The Complete Home Landscape Designer</i> .	
6. Trivedi, P & Chawdhury B, <i>Home Gardening</i> , New Delhi, India, Council of Agricultural Research, 1983	

BSC 505

Full Marks: 50

COMPUTER – 3D MAX (Practical)

Objectives	
<ul style="list-style-type: none"> To make students aware of the basics of 3D Max & its application in interiors. 	
Units	Course Content
1	Essentiality of 3Ds Max in Architectural Design Visualization, Product Show Reel & Other Demo Reel, User Interface of 3D Max
2	Negotiating with Objects Transformation (Move, Rotate, Scale), Understanding Various 3D Model Types (Spline, Mesh, Poly, Patch, Nurbs)
3	Changing System Unit & Working with Architectural Unit System, Drafting & Modifying Simple 2D Architectural Block with Spline Shape
4	Usage of Spline Modifiers (Extrude, Lathe, Bevel Profile, Sweep) to Generate 3D Surface Model.
5	Creating a Simple Building Plan with Dimension.
6	Importing Plan from Autocad to 3D Max & Modeling a Complete 3Dd Building (by Using Wall Tool & other AEC Extended Objects).
7	Mesh & Poly Modeling of Different Interior Accessories.
8	Concept of Patch & Nurbs Model & Understanding their Characteristics. Usage of Them in Architectural Modeling.
9	Definition Of Material And Textures And Relation Of Them With Virtual Scene Light.
10	Working with Different Architectural Materials, Placing Proper Lights in a Small Interior Scene.
11	Handling Target & Free Camera, Placing Camera in a Scene to Get Perspective View from a Specific Angle.
12	Examples of Advanced Material (Mental Ray Arch & Design) & Photometric Light (Area, Linear, Isotropic, Spot) with Indirect Illumination (Final Gathering)
13	Casting Mental Ray Sun & Sky Light for Exterior Scene, Generating Atmospheric Effects such as Fog, Mist, Fire, Cloud
14	Rendering into Photo Realistic Raster Images of Various Formats & Sizes.

15	Definition of Animation. Classification of Animation. Examples of 3D Max Key Frame Animation
16	Creating Camera Fly through in Both Int& Ext Scene
17	Managing Project File, File Import Export, Xref Objects & Communicating with Other 3D Packages

References

1. Books on Latest Version of 3D MAX
2. Arnaud, Remi & Barnes, Mark C. "COLLADA: sailing the gulf of 3D digital content creation". Wellesley, Mass. A K Peters, 2006.
3. Blundell, Barry G. & Schwarz, Adam J. "Creative 3-D display and interaction interfaces: a transdisciplinary approach". Hoboken. Wiley-Interscience, 2006.
4. Blundell, Barry. "Introduction to computer graphics and creative 3-D environments". London. Springer, 2008.
5. Boardman, Ted & Hubbell, Jeremy. "Inside 3D studio max 3 : modeling, materials and rendering". New Delhi. Techmedia, 1999.
6. Brown, Tim H. .[et al.]. Art of Maya: an introduction to 3D computer graphics, 4th ed. California. Autodesk Maya Press, 2007.
7. Buss, Samuel R. "3D computer graphics: a mathematical introduction with OpenGL". Cambridge. Cambridge University Press, 2003
8. Chen, Jim X. & Chen, Chunyang. "Foundations of 3D graphics programming: using JOGL and Java3D, 2nd ed.". London. Springer, 2008.
9. Derakhshani, Dariush, Munn, Randi L. & McFarland, Jon. "Introducing 3ds Max 9 : 3D for beginners". Indiana. Wiley Publishing, 2007.
10. Discreet. "3ds max 7 fundamentals and beyond courseware". Delhi. Focal Press, 2005.
11. Ferguson, R. Stuart. "Practical algorithms for 3D computer graphics". Natick. A K Peters, 2001.
12. Giambruno, Mark, "3D graphics and animation, 2nd ed.". Delhi. Pearson Education Asia, 2002.

BSC 506

Full Marks: 100

DESIGN STUDIO V (Theory)

Objectives

To prepare students for professional work through Industry Exposure and real work experience in a structured format

Units	Course Content
1	Will be undertaken in approved Interior Design Consultancy Firm or Contractors as Professional Training and Student
2	Has to submit a document reporting personal professional experience while

	including: - Supporting Design - Drawings, photographs of different stages of construction
3	Handling fixed parameters, context and program
4	Spatial programming and organization
5	Designing via built-experiments, resulting in spatial contemporary projects
6	Drawing plans and representing the design
References 1. Patterns in design, art and architecture: Petra Schmidt - Annete Tiebenberg - Ralf Wolheim : Birkhauser. 2. In Details - Interior Surfaces and Materials: Christian Schittick - Editions Detail. 3. Material Skills - Evolution of materials - Els Zijlstra - Materia Rotterdam.	

BSC 507

Full Marks: 100

END OF SEMESTER SUBMISSION: SEMINAR

Objectives

- To give opportunity to students to work independently under guidance.
- To develop an ability in preparing a report
- To provide opportunity for using visual aids in presentation
- To enable students to overcome audience fear and become self-confident.

Course Content

Every student must prepare a report and formally present it in the form of a short seminar for 15 minutes on any current issue / topic that compliments the curriculum / syllabi. The students should select the topic with prior approval from the concerned faculty or internal examiner.

The presentation to be made under following heads:

- **Selection of Topic**
- **Collection of Review**
- **Assimilation of Literature**
- **References Used**
- **Presentation Ability**
- **Preparation of Visual Aids**
- **Self Understanding & Level of Confidence**
- **Response / Queries of Examiners / Faculty / Audience**
- **Physical Appearance / Presence**
- **Technical Writing/Report Prepared On the Selected Topic.**

References

- **Journals / Magazines**
- **Relevant Books**
- **Dissertations**
- **Pamphlets, Brochures & Newsletters**
- **Web-Sites**

SEMESTER VI

BSC 601

Full Marks: 100

INTERNSHIP (Practical)

Objectives

- To enable the students to get first hand practical training at Interior Designing and architectural firms
- To gain practical training in the chosen field
- To integrate the theoretical knowledge into practical situation
- To get placement for students after identifying their areas of interest that complement the curriculum / syllabi
- To raise the confidence level of the student

Course Content

Total of about **one month (4-6 weeks duration)** Field Visit and Practical Training at Interior Designing firm or Architectural Firms or Real Estate/ Promoters / Builders or Furniture Designing Units. Students shall submit 3 copies of typed written report on the field visit and appear in a seminar and viva-voce examination to be conducted by a common board of examiners (internals and externals covering all important areas) coordinated by the Principal or a coordinator selected for the purpose by the Jadavpur University

**USING DISCARDED MATERIALS FOR INTERIOR DESIGN AND FURNITURE
(Theory & Practical)**

Objectives

To enable the students to:

- To equip students with necessary skills to use old building materials coming out of demolition or dismantling of old buildings and interiors in creating new interior and furniture using their creativity and innovation
- Cost saving and eco-friendly design concepts through recycling of old or surplus construction materials available as stock lots.

Units	Course Content
1	Introduction to the concept of recycling of building materials and furniture
2	Reuse of old building materials from scrapyards such as: <ul style="list-style-type: none"> - Bricks - Floor Tiles - Glass including curtain glass - Sanitary fittings - Electrical fittings - Wood, Plywood and particle Boards - Others
3	Recycling and retrofitting of old furnitures <ul style="list-style-type: none"> - Restoration and repair of old furniture - Various methods of remodelling old furniture - Providing new and contemporary looks to old furniture - Using old furniture for new functions
4	Using new and other kinds of waste for construction, interior and furniture: <ul style="list-style-type: none"> - Using discarded packing materials like thermocol for partition wall and false ceilings - Using industrial waste for construction - Using discarded plastic bottles for vertical garden and landscaping - Using discarded tin containers for various use in interior designs - Using discarded tyres for outdoor furniture, etc
5	New technologies and tools required for using old or non-traditional materials in construction and interior design

References

1. Denison, Richard A. and Ruston, John F. 1995. Assessing the Full Costs and Benefits of Curbside Recycling. www.edf.org/pubs/Reports/advrec.html.
2. Barlaz, Morton A. Nishtala, Subba R. Ranjithan, Ranji. Weitz, Keith A. July 1995. Life Cycle Study of Municipal Solid Waste Management. EPA 832052.
3. Bader, Charles D. Sorting Through the Best Equipment for Recyclables. MSW Management. Elements 2000. Vol. 9, No. 7. Pp. 40-46.
4. Stessel, Richard Ian. 1996. Recycling and Resource Recovery Engineering: Principles of Waste Processing. Springer. New York.
5. Henningson, Durham and Richardson Architecture and Engineering, P. C. May 1999. Mixed Waste Processing Test and Compost Test. Department of Sanitation.

BSC 603

Full Marks: 50

RESTORATION & RENOVATION OF BUILDING INTERIORS (Theory)

Objectives

To enable the students to:

- Have adequate knowledge in designing
- Develop skills in integrating aesthetics dimensions with functional dimensions in interior designing
- Create awareness about need for repairs and restoration problems and to learn to prepare proposals for repair

Units	Course Content
1	Renovation <ul style="list-style-type: none">• Importance of renovation• Need for renovation• Areas of concern: walls, floor, ceiling/roof, wood work, electrical, plumbing, sanitary, furniture & furnishing
2	Importance of Restoration <ul style="list-style-type: none">• Historical heritage• Economical significance• Ergonomical Significance• Design trends
3	Considerations of Additions & Alterations <ul style="list-style-type: none">• Evaluation of existing conditions, structural stability.• Study of prevalent rules and regulations of local authorities• New work to blend with old structure

	<ul style="list-style-type: none"> • Sketching
4	<p style="text-align: center;">Existing Building Plans</p> <ul style="list-style-type: none"> • Preparing repair proposal: the blending of repair work with old work giving consideration to purpose, stability and aesthetics. • Estimation of cost of repair or restoration

References

1. *Basic Woodworking*, Sunset Books
2. Chudley, R, *Building Technology*, Vol. 1 –5,
3. Davidson James, *Complete Home Lighting Book*, Casell Publishers, U.K.
4. Faulkner & Faulkner *Inside Today's Home*
5. Hiraskar G K, *The Great Age of World Architecture*, Dhanpat Rai Publications
6. Housing, *A Factual Analysis*; Macmillan, New York.
7. John Pile, *History of Interior Design*
8. JouhnBu'lock Bjorn Kristianseir, *Basic Biotechnology*, Academic Press, London,1987

BSC 604

Full Marks: 50

ENTREPRENEURSHIP MANAGEMENT (Theory)

<p>Objectives</p> <ul style="list-style-type: none"> • To develop entrepreneurship skills in students. • To motivate students towards seeking an entrepreneurial career. • To help the students understand the process & procedure of setting up small enterprises. • To develop analytical skills of students regarding the environment related to small-scale industries & businesses. 	
Units	Course Content
1	<p>Enterprise Management</p> <ul style="list-style-type: none"> • Concept of entrepreneurship development • Need, scope, process & role in economy. • Types of enterprises: merits & demerits. • Institutional support, government polices & schemes for enterprise development.
2	<p style="text-align: center;">The Entrepreneur</p> <ul style="list-style-type: none"> • Definition behavior, characteristics, entrepreneurial competency, concepts & development. • Self-awareness, interpersonal skills, creativity, assertiveness. • Factors influencing entrepreneur's role.
3	<p>Setting & Managing an Enterprise</p>

	<ul style="list-style-type: none"> • Need, scope & approaches for project formation, market assessment, S.W.G.T analysis & techno-economic feasibility of project. • Resource mobilization-finance, technology, raw materials, site & manpower. • Costing, marketing management & quality control institutions. • Book of accounts, financial statements, funds flow analysis & financial incentives. • Feedback, monitoring & evaluation
4	Critical Path Method, Project Evaluation, Review Techniques for Establishing Small-Scale Industries.
5	Creativity & Problem Solving Personnel Management. Salaries, wages & incentives, performance appraisal, quality control etc.
6	Marketing & Sales Management Marketing management & sales techniques, packaging, label intervention, pricing & after sales service.
7	Legislation Licensing, registration, principal laws, business ethics, income tax, labour law application, consumer complaint redressal.

References

1. *A handbook of learning Systems*, Entrepreneurship Development, Institute of India, New Delhi, 1982
2. Deshpande M V, *Entrepreneurship of Small Scale Industries, Concept, Growth & Management*, Deep & Deep Publications, New Delhi, 1984
3. Hirsch R D. & Peter M P, *Entrepreneurship, Starting Developing & Managing a NewEnterprise*, Richard. D Irwin, Inc, U.S.A, 1995
4. Parekh V & Rao T V, *Personal Efficiency in Developing Entrepreneurship Learning System*, New Delhi, 1978

BSC 605

Full Marks: 50

LOW COST INTERIOR DESIGNS& SPACE SAVING FURNITURE(Theory)

Objectives

To enable the students to:

- To sensitize students about the cost benefit of each building materials and different kinds of construction finishes through their comparative SWOT analysis and to sensitize them about ways and methods of reducing cost through sensible selection of materials, designs and construction management methods
- **
- To sensitize students about the possibility and availability of space saving furniture so that small spaces can be used for multipurpose functions.
- To appraise them about efficient furniture designs, their availability and DIY processes

Units	Course Content
1	Concept of low cost interior design through design efficiency

2	Cost comparison of different kinds of building materials and SWOT analysis of the same
3	Cost and time saving practices and techniques in construction and interior design
4	Cost saving methods of material sourcing and construction management
5	Cost comparison of different kinds of construction finishes and their SWOT analysis
6	Sensitization of students about multifunction space saving furniture ranges

References

1. DECHIARA, J., PANERO, J., AND ZELNIK, M. 2001. Time- Saver Standards for Interior Design and Space Planning, 2nd ed. McGraw-Hill Professional.
2. HENDLER, M. 1981. Room and Furniture Layout Kit. Dover Publications.
3. KARLEN, M. 2009. Space Planning Basics, 3rd ed. John Wiley & Sons.
4. KILMER, R., AND KILMER, W. O. 1992. Designing Interiors. Thomson Learning.
5. KUBBA, S. 2003. Space Planning for Commercial and Residential Interiors. McGraw-Hill Professional.
6. LYONS, G. H. 2008. Ten Common Home Decorating Mistakes and How To Avoid Them. Blue Sage Press.
7. MCGOWAN, M., AND KRUSE, K. 2004. Interior Graphic Standards. John Wiley & Sons.
8. MERRELL, P., SCHKUFZA, E., AND KOLTUN, V. 2010. Computer-generated residential building layouts. In Proc. SIGGRAPH Asia, ACM.
9. MICHALEK, J. J., AND PAPALAMBROS, P. Y. 2002. Interactive design optimization of architectural layouts. Engineering Optimization 34, 5, 485–501.
10. PANERO, J., AND REPETTO, N. 1975. Anatomy for Interior Designers, 3rd ed. Whitney Library of Design.
11. PILE, J. F. 2007. Interior Design, 4th ed. Prentice Hall.
12. WARD, L. 1999. Use What You Have Decorating. Penguin Group.

BSC 606

Full Marks: 50

DESIGN STUDIO VI (Practical)

Objectives	
To enable the students to: Understand the methodology, process, stages of designing studio w.s.r.t. interior and interior designing.	
Units	Course Content
1	Students have to identify a client, a practical site and develop the design requirement, related design issues and provide alternate design scenarios and develop the most practical alternative. He has to organise the working drawings for the same including service drawing (with assistance from the Consultants) with Budget Provision and Project Schedule and probable management strategy.
2	Spatial designing that focusses on interior finishings for a public program on a given site. Exploring and researching materials-patterns-connections-constructions on scale 1/1 in order to develop an interior skin. This skin needs to be in relation

to the given program, the thematic and functional specifications, the analysis of the reconversion. Simultaneous designing process via implementing the program and materializing the skin on diverse scales.

References

1. Natural History : Herzog & De Meuron : Philippe Ursprung : Lars Muller Publishers.
2. Skin + bones : Parallel practices in Fashion and Architecture by Brooke - Hodge : Thames and Hudson.

BSC 607

Full Marks: 50

INTERIOR DESIGN FOR SPECIAL NEEDS (Practical)

Objectives

- To enable the students to acquire knowledge of basic principles involved in planning, organizing & evaluating interiors for special needs

Units	Course Content
1	Study of the Interiors Catering to Groups with Special Needs <ul style="list-style-type: none"> • Children • Youth, Elderly • Mentally challenged • Visually handicapped • Physically handicapped
2	Presentation of Reports
3	Design of Interior Layouts, Presentation Drawings (Plans & Perspectives), Detailed Working Drawings (Plans, Sectional Elevations, Sanitary & Electrical Layouts & Detailing), Furniture Details of Spaces for Groups with Special Needs (Children, Youth, Elderly, Mentally Challenged & Visually Handicapped)
4	Estimation of Cost for the Abovementioned Interiors

References

1. *CPWD Guidelines for Space Standards for Barrier Free Built Environment for Disabled & Elderly Persons*, CPWD, New Delhi.
2. Joseph De Chiara *et.al*, *Time Saver Standards for Building Types*, McGraw Hill International, Singapore, 3rd ed., 1995
3. Joseph De Chiara *et.al*, *Time Saver Standards for Housing & Residential Development*, McGraw Hill International, Singapore, 3rd ed., 1995

PROFESSIONAL PRACTICES (Theory)

<p>Objectives</p> <p>To enable the students to:</p> <ul style="list-style-type: none"> • To be oriented about professional aspects of management. • To learn to execute Interior work for residential & commercial areas. • To develop skills in estimating interior work 		
Units	Course Content	No. of Contact Hours
1	<p>Introduction to Professional Management Concept & Significance</p>	4
2	<p>Professional Components of Managing Interior Work</p> <ul style="list-style-type: none"> • Office managing, code/conduct, • Scale of professional fee & charges, • Duties of employer under labour welfare provisions, • Structure of interior designers office, • Conditions of engagement 	10
3	<p style="text-align: center;">Estimating Interior Work</p> <p>Definition & importance of estimating, types, units & mode of measurement, rate, analysis, bills of quantities etc.</p>	6
4	<p style="text-align: center;">Tenders & Contracts</p> <ul style="list-style-type: none"> • Definition & meaning of tender & contract, tender notice, tender document, types of tender, legal aspects etc. • Types of contract, articles of agreement, execution, scope of contract, duties and liabilities of contractor, legal aspects of contract. 	12
5	<p>Professional Communication Skills (Demonstrations, Presentations etc.)</p>	8
<p>References</p> <ol style="list-style-type: none"> 1. Drucker, Peter, <i>Innovation & Entrepreneurship Practices & Principles</i>, William Hernmann Ltd., London, 1969 2. Drucker, Peter.F, <i>The Effective Executive</i>, William Hernmann Ltd., London, 1969 3. Laboeuf, Michael, <i>The General Management Principles in the World</i>. Barkley Books, New York 4. Roshan, Nanavati, <i>Professional Practices Estimating & Valuation</i>, Lakhani Book Depot, Bombay, 1994 		

**END OF SEMESTER SUBMISSION:
INTERNSHIP PORTFOLIO DISSERTATION (Practical)**

Objectives

- To give opportunity to students to work independently though under supervision.
- To enable a student to widen his/ her knowledge regarding any relevant and interesting topic on current issues that complements the curriculum or syllabi and has not been covered in the syllabus.
- To become aware of current issues in the field of Interior Designing
- To develop an ability in preparing a report.

Course Content**For Project**

- During the semester the students are to work on a residential project designed and developed by them on paper i.e. the planning, the furniture layout, all the relevant working drawings, estimation and costing of the suggested plan
- During the semester a similar project on any one commercial establishment has to be designed and developed by the student giving all the required drawings

The students would be working under the supervision of a faculty member and would get approval prior to starting the project.

Presentations on both the projects (Residential & Commercial) has to be given at the end of the semester. The student would be evaluated at the end of the project submission and would have to defend her work on the date assigned for it.

For Term Paper

Each student shall be required to carry out under supervision of teacher or teachers, an original investigation work or review work on any relevant topic or a technological problem related to his / her studies. Students would have to submit three copies of typed written and bound dissertation embodying the experiments and results of their investigation.

The paper would be evaluated under the following heads:

- **Selection of Topic**
- **Collection of Review**
- **Assimilation of Literature, References Used.**
- **Viva-voce** (Self understanding), etc

References

1. Journal/magazine
2. Relevant books
3. Dissertation
4. Pamphlets, brochures, newsletters
5. Websites

Objectives

- To enable the students to get first hand practical training at Interior Designing and architectural firms
- To gain practical training in the chosen field
- To integrate the theoretical knowledge into practical situation
- To get placement for students after identifying their areas of interest that complement the curriculum / syllabi
- To raise the confidence level of the student

Course Content

Total of about **one month (4-6 weeks duration)** Field Visit and Practical Training at Interior Designing firm or Architectural Firms or Real Estate/ Promoters / Builders or Furniture Designing Units. Students shall submit 3 copies of typed written report on the field visit and appear in a seminar and viva-voce examination to be conducted by a common board of examiners (internals and externals covering all important areas) coordinated by the Principal or a coordinator selected for the purpose by the Jadavpur University