## PROGRAM OUTLINE:

**Program Structure**

**B.Des. (Interior Design)**

### 1st Year

#### Semester I

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## Third Year – Summer Training

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L/S-Lecture/Studio, T- Tutorial, P-Practical, C-Credits
DETAILED SYLLABUS:

1ST YR. B. Des.(ID)

FIRST SEMESTER

1] BID101 INTERIOR DESIGN

Course Description:
Principles of visual perception; the grammar of visual language; principles of composition and the relationship between human activities and anthropometrics; learning about taking independent decisions or analysing observations with a sound background of basic principles of visual perception and the principles of composition. Continuous exposure of the student to hypothetical as well as the real situations, in which students are expected to work; individual discussions about the project of work; application of these principles in the process of design; instilling an attitude of exploring different dimensions of composition, without any restrictions and limitations; understanding single user spaces.

References:
1. John F Pile - Interior Design — Abrams

2] BID103 GRAPHICS FOR INTERIORS – 2 DIMENSION

Course Description:
The course covers the fundamental techniques and principles necessary to understand and produce architectural drawings; Communication through graphic language; geometrical construction; lettering; scales; conic sections; Orthographic projection of points, lines, planes and solids; Pictorial representation like isometric projection and axonometric projection; sketching exercises.

References:
1. Francis D.K. Ching - Interior Design Illustrated

3] BID105 HISTORY OF WESTERN CIVILIZATIONS – A PERSPECTIVE INTO INTERIORS

Course Description:
Detailed study and analysis of architectural building examples under the light of: genesis of seed idea, climatic and geographic influence; socio-political background; key people involved; construction technology and material; physical organisation; typology; spatial understanding and detailing. World history from prehistory to Romans: covering civilisations of Indus valley, central America, Egypt, Mesopotamia, Babylonia, Assyrian, Persian, Anatolian, Orient, ancient Greece, Roman; all eras focus on the development of society, outgrowing cities and regions into a nation and overviews the various ideas depicting democracy and power of the monarchy.

World history from early Christian to Baroque: covering early Christian, Byzantine, Romanesque, Gothic and Renaissance until Baroque; focus of this era on the development of society; outgrowing cities and regions into a nation; key factor of religion as a new power for rationalising and development of a society.

References:
4] BID107 VISUAL ARTS AND BASIC DESIGN – I

Course Description:
Visual Arts: Various exercises in free hand drawings, sketching, coloring in different media like pencil, pen and ink; study of human proportion; understanding the skill of sketching different postures of human figures, automobiles, interior furniture; sculptures in different media like clay, PU etc.
Basic Design: Principles of visual perception, grammar of visual language; principles of composition like contrast, harmony, rhythm, proportion, unity, etc. Empahsis on visual and physical aspects of composition like colour, texture, form, shape, etc. Application of design principles in two dimensional compositions.

References:

5] BID109 BUILDING CONSTRUCTION MATERIALS – I

Course Description:
Introduction to graphic standards for architectural practice, their relevance in building design and detailing; graphic techniques for drawing views, plans, elevations and sections of building material and components, as per standard architectural practice. Building components and construction techniques; wall construction of different types – exteriors and interiors; brick masonry bonds – English, Flemish, rat trap bond, decorative masonry bonds; cavity wall construction; detailing of lintels; arches, Basics of structural systems of buildings.
Building materials study: study of basic building materials like stones, bricks, concrete blocks, dry walls, clay products, cement and sand; roof tile – their properties, manufacture, various quality tests towards certification for use; specification of mortars in masonry; plastering and pointing work.

References:

BID111 ENVIRONMENTAL STUDIES

Course objectives:
To create an awareness about the importance of environment and conservation of the natural resources.

Course contents:
Module 1: The Multidisciplinary Nature of Environmental Studies: Definition, scope and importance, need for public awareness

Module 2: Natural Resources: Renewable and non-renewable resources: Natural resources and associated problems:

a) Forest resources: Use and over-exploitation, deforestation, case studies, timber extraction, mining, dams and their effects on forests and tribal people.

b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams – benefits and problems.

c) Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.

d) Food resources: World food problems, changes caused by agriculture and overgazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies.

e) Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, case studies

f) Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification
Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles.

Module 3: Ecosystems: Concept of an ecosystem; structure and function of an ecosystem; producers, consumers and decomposers; energy flow in ecosystem; ecological succession; food chains, food webs and ecological pyramids; interdiction, types, characteristic features, structure and functions of the following ecosystems: forest ecosystem, grassland ecosystem, desert ecosystem, aquatic ecosystems (pond, streams, lakes, rivers, oceans, estuaries)

Module 4: Biodiversity and its Conservation: Introduction, definition: genetic, species and ecosystem diversity; biogeographical classification of India; value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values; biodiversity at global, national and local levels; India as a mega-diverse nation; hot spots of biodiversity; threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts; endangered and endemic species of India; conservation of biodiversity: in-situ and ex-situ conservation of biodiversity.

Module 5: Environmental Pollution: Definition; causes, effects and control measures of: air pollution, water pollution, soil pollution, marine pollution, noise pollution, thermal pollution, nuclear hazards; solid waste management: causes, effects and control measures of urban and industrial wastes; role of an individual in prevention of pollution; pollution case studies; disaster management: floods, earthquake, cyclone and landslides.

Module 6: Social Issues and the Environment: From unsustainable to sustainable development; urban problems related to energy; water conservation, rain water harvesting, watershed management; resettlement and rehabilitation of people: its problems and concerns, case studies; environmental ethics: issues and possible solutions; climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies; wasteland reclamation; consumerism and waste products; environmental protection act; air (prevention and control of pollution) act; water (prevention and control of pollution) act; wildlife protection act; forest conservation act; issues involved in enforcement of environmental legislation; public awareness.

Module 7: Human Population and Environment: Population growth, variation among nations; population explosion – family welfare programme; environment and human health; human rights; value education; HIV/AIDS; women and child welfare; role of information technology in environment and human health; case studies.

Module 8: Field Work: Visit to local area to document environmental assets – river/forest/grassland/hill/mountain; visit to local polluted site – rural/urban/industrial/agricultural; study of common plants, insects, birds; study of simple ecosystems – ponds, river, hill, slopes etc.

References:
2. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad – 380 013, India,
7. Down to Earth, Centre for Science and Environment
9. Hawkins R.E., Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay
18. Survey of the Environment, The Hindu (M)  

SECOND SEMESTER

1) BID102 INTERIOR DESIGN – DESIGN FUNDAMENTALS
Course Description:
This course will develop in the students a sophisticated sense of the theories of design elements like color, texture: its properties, psychology and impact within a designed space. An understanding of the user circulation and space requirement with use of color in interior spaces translated to the student’s own color application projects. An understanding of fundamental concepts and methods of planning, organizing and arranging spaces in built environment. Students examine space in terms of human needs, activities, and priorities and apply design processes to make the best functional and aesthetic use of space.
References:

2) BID104 GRAPHICS FOR INTERIORS – 3 DIMENSION
Course Description:
Sections of solids; auxiliary views; true shapes of sections; development of surfaces; interpenetration of solids; perspective projection of simple geometrical objects. Presentation Drawings: pen and ink rendering exercises; exploring different media to render plans; elevations and perspectives; perspective drawings including 1-point and 2-point perspectives; sketching exercises, depicting tonal variations in drawings to represent material variations, shades and shadows.
References:
1. Francis D.K. Ching - Interior Design Illustrated

3) BID106 HISTORY OF ISLAMIC AND EASTERN STUDIES – A PERSPECTIVE INTO INTERIORS
Course Description:
Detailed study and analysis of architectural building examples under the light of: genesis of seed idea, climatic and geographic influence, socio-political background, key people involved, construction technology and material, physical organisation, typology, spatial understanding and detailing. History of architecture in early Hindu, Buddhist and Jain designs. Study of various methods of Buddhist architectural forms such as Stupas, rock-cut temples etc. Hindu temple architecture in the Northern and Southern parts of India in the varied Nagara and Dravida styles of planning and design; study of evolution of Indo Aryan temple architecture and the construction methods and planning under various dynasties / regions. History of Architecture in the Islamic world with particular reference to the middle eastern regions: An overview of world Islamic architecture from 600 AD to 1000 AD; Islamic architecture in India from
1000 AD to the end of Mughal period; study of various building typologies, building elements and methods of construction;

Development of Colonial architecture in India – Dutch, Portuguese, French and British architectural influences in India: merging of local architecture with various Colonial styles and the Colonial influence as an impression of Renaissance in Europe and later a fusion of Indian regional and European styles

References:
1. Architecture of the Islamic World: Its History and Social Meaning by George Michell (Editor)

4] BID108 COMPUTER AIDED DESIGN – FUNDAMENTALS
Course Description:
This course introduces basic concepts for computer-aided design, drafting skills within the built environment applications. Emphasis is on 2D CAD commands used in architectural drafting and design to prepare drawings, through AutoCAD; Introduction to Presentation techniques through Adobe Photoshop; Understanding 3dimensional modeling through Google Sketch up.

References:
1. Yarwood, Alf. Introduction to AutoCAD 2008 - 2D and 3D Design
2. Yarwood, Alf. Introduction to AutoCAD 2011 - 2D and 3D Design
3. Autodesk and Adobe Manuals

5] BID110 BUILDING CONSTRUCTION AND MATERIALS II
Course Description:
Construction Detailing: types of roofing structures, classification, Doors and windows in varied materials: Technical terms, classification, hardware / fixtures; Geometrics of Staircases.

Building Materials Study: Timber classification, manufacture/processing for building application, seasoning methods, defects / preservation techniques; Glass & Ceramics as a building material – classification, manufacture, properties and applications.

References:

6] BID112 DESIGN COMMUNICATION SKILLS
Course Description:
This course helps in developing the writing and oral skills from a designers’ perspective. The course helps the design student to understand the abstractness in language of design and its relation to the creative process of designing. The writing task includes reports, reviews, emails & other design communications. Learn to analyze client types, particularly focusing on varied ethnic sensibilities, purely from a cultural infusion perspective. To improve upon both the elaboration and condensation of thoughts, speech and delivery through public speaking. To develop group & individual communication skills & understand ratios and barriers. To learn effective presentation methods, with special emphasis on visual aids.

References:
THIRD SEMESTER

1] BID201 INTERIOR DESIGN – RESIDENTIAL DESIGN
Course Description:
Introduction of exercises interconnecting basic design and interior design; Understanding the arrangement of spaces for aesthetic consideration to foster basic qualities in design like composition and other human considerations like, privacy, convenience, comfort, etc. Understanding the significance of the factors in creating ideal environment; learning the design process; critical appraisal of spaces to which students are frequently exposed to, like, library, classroom, hostel residence, clinic, etc. Factors like aesthetics with reference to colour, texture, arrangement and profile of forms, circulation pattern, furniture arrangement, etc.; a small design exercise with critical appraisal of various spaces as first assignment; other design problems involving activities for two to twenty persons.
References:
1. John F Pile - Interior Design - Abrams

2] BID203 Building Construction and Materials – III
Course Description:
Building Materials study: Types of flooring finishes - mosaic, stones, tiles, wood etc.; Ferrous and nonferrous metals - iron, steel, alloys, various forms and their applications in buildings - aluminum, copper, zinc, lead, tin; Polymeric materials, plastics, rubbers, Asbestos products.
References:

3] BID205 COMPUTER AIDED DESIGN – DESIGN APPLICATIONS
Course Description:
Development and practice exercises for 1-point and 2-point perspectives for different building typologies; Understanding the methods and conventions of tonal variations in rendering representations for plans, elevations and views; Emphasis is placed on presentation techniques, enhancing drafting skills for design applications, using 2D & 3D CAD applications, through relevant software’s.

4] BID207 INTRODUCTION TO INTERIOR SPACES
Course Description:
Emphasis is on building systems and their relationship to interior environment and user needs. Various factors which define quality in interior space and the elements which make up the interiors is to be thoroughly analyzed. An appreciation of aesthetics in spaces it to be undertaken.
References:
1. Francis D.K. Ching - Architecture, Form, Space & Order - Van Nostrand Publications

5] BID209 HISTORY AFTER REVOLUTIONS – A PERSPECTIVE INTO INTERIORS
Course Description:
Detailed study and analysis of architectural building examples under the light of: genesis of seed idea, climatic and geographic influence, socio-political background, key people involved, construction technology and material, physical organisation, typology, spatial understanding and detailing.

Architecture after the industrial revolution: general characteristics of Rococo and Néo-classique architecture; search for style; Revivalism and Eclecticism; transitional period, a brief account of the situation before the changeover to modern architecture in Europe; impact of industrial revolution in Europe; development of skyscrapers; development of architectural theories; the modern architecture movement; seminal works of modern architecture; ideas and works of great masters. Overview of post-15 independence architecture in India: development of a new state and the effects on architecture. Impact of the works of various foreign architects in India; architectural language of the first generation Indian architects during the period; post and late modern architecture; rise and development of the Post-modern architecture theory; introduction to the ideas and works of contemporary masters; new theories of architecture during the era: Hi-tech architecture, Minimalism, Structuralism, Deconstructivism, Metabolism, New Expressionism, Novelty architecture, Organic architecture and Blobitecture. Continuation of the new theories in the contemporary era and modern Indian architecture and philosophy of second generation Indian architects.

References:

6] BID211 BUILDING SERVICES – I

Course Description:
Water Supply: general ideas of sources of water supply; qualitative and quantitative aspects; distribution systems; domestic water supply systems; sump and overhead tank; pipe sizes, pipe fittings and their technical names, viz, latest fillings in the market; cold water and hot water supply for multistoried buildings; types of taps, valves, etc.
Sanitation: refuse - types, collection and disposal; basic principles of sanitation and disposal of waste water from buildings; urban drainage and sanitation; different collection and disposal fittings; types of drainage systems, sewage treatment - materials, workmanship, laying and testing of sewers; recycling of black water. Rain water disposal: storm water drainage systems for buildings; rain water harvesting.
HVAC: concepts, definitions, classifications, working mechanisms and design considerations for types of HVAC systems; Refrigeration cycles; principles and guidelines for AC ducting; provisions for fire safety; energy conservation techniques.
Fire suppression systems: suppression agents; types of fire; suppression systems.
Site visits: water treatment plant, sewage treatment plant and multistoried apartments, to study water supply, sanitary arrangements and firefighting provisions.

References:
1. Corky Binggeli, Building Systems for Interior Design, ASID

FOURTH SEMESTER

1] BID202 INTERIOR DESIGN – COMMERCIAL DESIGN

Course Description:
This course introduces commercial design for small offices, shops, restaurants and boutiques at a micro level. The course introduces commercial contract design including retail, office, institutional and hospitality design. Emphasis is placed on the design requirements, space planning & constraints, anthropometric & ergonomic requirements of the users and the selection of appropriate materials for non-residential interiors. The student is also exposed to building codes & standards and space planning.

References:
1. John Pile - Interior Design - Abrams

2] BID204 BUILDING CONSTRUCTION AND MATERIALS - IV
Course Description:
The course covers construction involved in interiors using basic and advanced techniques with the implications of using health, safety, green design & energy guidelines. Methods of estimating to be briefly touched upon.
References:
1. Francis D.K.Ching - Building Construction Illustrated - CBS Publishers and Distributors

3] BID206 COMPUTER AIDED DESIGN – VISUAL PRESENTATION
Course Description:
The Coursework is collaborated with the Design Studios to enhance visualizations for advanced design development. Enhancement of Photo realistic rendered views through 3D Studio Max with applications of plug-ins like V-Ray etc.
References:
1. Autodesk Manuals.
2. Smith, Brian L. 3DS Max – 8: Architectural Visualisation

4] BID208 BUILDING SERVICES – II
Course Description:
Electrical Services: sources of electrical energy supplied to buildings and scope and requirements. Requirements of electrical materials such as conductors, insulators, types and requirements of electrical cables, control equipments such as switch gear, safety devices. Rules and regulations for electrification of buildings with relevant standards. Types of electrical wiring system and earthing. Communication and IT services, installations and cabling. Illumination: concepts and considerations for artificial lighting; different types of indoor and outdoor lighting.
Acoustics: introduction to the study of acoustics; types of Noise; types and calculations of the principles of sound absorption and the materials used; constructional measures of noise and sound insulation; acoustical design for halls used for drama, music, speech, cinemas and open air theatres.
Mechanical transportation systems: concept of mechanised transportation systems; study of and design considerations for lifts, escalators and travelators; building automation system.
References:
1. Corky Binggeli, Building Systems for Interior Design, ASID

5] BID210 PRINCIPLES OF ARCHITECTURAL RESEARCH
Course Description:
To streamline the pursuit of research in the architectural design development and to understand various terminologies, philosophy, styles involved in architectural composition, critical study of various architectural design theories, understanding architectural criticism. Introduction to report and research paper writing – components of research paper and research report - different styles of report writing. Definition of Space and Concept in Design. Interpretation of the concept in terms of composition methods and space modulation.
Styles in Architecture: Determinants of style are region, climate, sociology, politics, scientific inventions, materials and technology. Theories in architecture and Architectural Criticism.
References:

6] BID212 QUANTITY ESTIMATING AND SPECIFICATION
Course Description:
An introduction and familiarization with all basic building systems that are relevant to the practice of residential and commercial interior designs. The course stresses on concepts, selection and application of construction processes, materials and finishes including introduction to codes, working drawings and model building. Course will also cover methods involved in arriving at estimation of quantities of various materials & work.
Definition, types, importance of outline and detailed specification in construction practice; method of writing specifications. Detailed specification writing for materials and works for materials used in built environment. Class work shall also include training to write specification for works designed for special situation, like use of
non-conventional use of conventional materials, etc. Need for quantity surveying, measurement of items of construction work. Taking out quantities of work items; Preparation of abstract of estimated quantities; rate analysis of different work items, factors affecting rate of an item; preparation of project estimate; types of estimates. Contract: types of contracts, tender, tender documents, earnest money

References:

3rd YR. B. Des. (ID)

FIFTH SEMESTER

1] BID301 INTERIOR DESIGN – INSTITUTIONAL DESIGN

Course Description:
This course introduces institutional design for educational purposes at all levels, health care, recreation etc. The course explores various parameters involved at micro level to bring out the right ambience in the variety of spaces which constitutes an institutional building.

References:
1. John Pile - Interior Design

2] BID303 COMPUTER AIDED DESIGN – ADVANCED RENDERING TECHNIQUES AND WALKTHROUGHS

Course Description:
To prepare realistic presentation of design projects through advanced rendering techniques & animated walkthroughs using 3D Studio Max which focuses on latest applications in the industry

3] BID305 ECOLOGY AND LANDSCAPE ELEMENTS

Course Description:
To explore the elements of ecology and the principles which govern ecology, leading towards a better understanding of the environment. Elements of landscape and their influence on exterior & interior space are to be studied so that a wider application of these landscape elements can be done in appropriate in native contexts. Concepts and development theories and examples of modern gardens (industrial era onwards); site planning (based on features of landscape architecture) and the study and analysis of site features; design guidelines; site structure plans and road geometrics.

References:

4] BID307 DESIGN MANAGEMENT

Course Description:
Introduces the principles and practices of the economic and commercial aspects of architectural and design practice in a global economy. Includes microeconomics theory as it applies to private enterprise including basic business economics, planning and management. It gives attention to the processes and skills required in establishing an independent architecture or design office.

References:
1. A Handbook for Owners and Managers by Christine M. Piotrowski

Specialization 1 – Business Management

5] BID309 PRINCIPLES OF BUSINESS MANAGEMENT
Course Description:
The course correlates the theories and concepts of business management from a regional point-of-view: introduction to business and the forms of business enterprises; scope of management process; ethical and social responsibilities of and within a business, with regards to the environment, consumers, workers, investors and business approaches; business economics; project financing and banking system trends and guidelines within the emerging markets.

6] BID311 INTRODUCTION TO MARKETING
Course Description:
The course is an introduction to marketing management, with specific emphasis on: demand creation and sustainability in business; marketing processes; developing marketing strategies; understanding the marketing mix.

Specialization 2 – Product Design
7] BID313 DESIGN OF ACCESSORIES
Course Description:
The course explores study in three dimensionality: understanding forms and their relationship to the human levels of usage, comfort, reactions and the concept of styles and self-expression. Understanding of the critical and idealised use of colour, texture and form, using varied materials like plastics, while creating and designing a tactile, simple mechanismed, hand-held product.

8] BID315 PRODUCT GRAPHICS
Course Description:
The course explores 2D representation on 3D-form. Understanding how graphics on product changes its character. Study how graphics becomes a product and adds to a design or a space. Understand wrapping images on 3D-form. Understanding text and developing expression through text and graphics for product. Study of Visual Ergonomics and study of signage, and its application in interior space.

SIXTH SEMESTER
1] BID302 INTERIOR DESIGN – DESIGN DISSERTATION
Course Description:
A Design Brief has to be formulated in Semester 1 – third year which has to be developed from the conceptual level to reflect the student’s ability to handle all phases of the design. Effectively utilize and demonstrate knowledge of the appropriate needs and requirements of the Design Brief. To demonstrate design skills, professional interests and exposure to the practical environment. Effectively communicate the design through a detailed presentation – Multimedia format and portfolio format

2] BID304 PROFESSIONAL PRACTICE
Course Description:
A detailed understanding of the business principles, practices & procedures for Interior Designers. It includes design formation and management, professional ethics and organizations, certification and licensing issues, design liability, project management, and portfolio development.

References:
Christine M. Piotrowski - Professional Practice for Interior Designers - John Wiley & Sons

3] BID306 PROJECT MANAGEMENT
Course Description:
Introduces basic and advanced concepts of running design projects. Explores the design process and project phases, analyzing in detail under the project management concept of delivering projects on time, on budget, every time.

Introduction to construction management and applied management techniques in projects; Application of project management tools like CPM and PERT networks to building projects; concept of project management; relevance of project management to building industry; project management team model; role of the interior designer in the project management process; project monitoring, including updating of networks, advantages
and limitations of Bar and Milestone charts; Resource levelling; Theories and principles of valuation of immovable properties, differences and similarities of cost, price and value.

References:
1. Chris Hendrickson – Project Management for Construction

Specialization 1 – Business Management
4] BID308 FINANCIAL MANAGEMENT
Course Description:
The course is an introduction to financial management and correlates the same within the UAE perspective. Introduction to the basics of finance including balance sheets, cash flow, performance ratios and the overall financial report of a company.

5] BID310 ADVERTISING AND BRAND MANAGEMENT
Course Description:
This course focuses on three core marketing strategies: branding, positioning, and competitive analysis. Product or service transformation to commodity quickly as competition & duplication of successful products, analysis of competition and advertising to position and brand products and services creation of successful brands.

Specialization 2 – Product Design
6] BID312 FURNITURE DESIGN
Course Description:
Furniture today is not just an object that helps us perform a task, but also about style and innovation. The course explores various ways furniture can help accomplish these tasks, such as seating, simple work surfaces, storage, and resting.

7] BID314 REPRESENTATION TECHNIQUES
Course Description:
The course explores the various representation techniques used for Product design. To be able to reproduce and convey ideas in 2D and 3D. To be able to detail out solutions. To be able to check feasibility, and manufacturability of the objects.

8] BID316 PRACTICAL TRAINING
Course Description:
Practical Training shall be undertaken by the student during the summer break after the 2nd year coursework of Interior Design to gain practical experience of the general work place in an Interior Design office. The student is expected to work for a period of 240 work hours and a weekly log shall be prepared for assessment of the same by the employer and a faculty member from the Department of Design, Manipal University.

PRACTICAL TRAINING

4th YR. B. Des.(ID)

SEVENTH SEMESTER
1] BID401 THESIS
Course Description:
The development of thesis is to enable the students to handle all the phases of building/interior design. It is a subject for scholastic study through analysis and should reflect the knowledge gained from the
courses undertaken by the student in all the previous semesters. It is a development of design and detailing with integration of all the technical aspects. The thesis project shall be submitted in the form of drawings, project report and material charts.

2] BID403 ELECTIVE I
HOSPITALITY INTERIORS
Course Description:
It involves the study of user types, user behavior concepts relevant to hospitality interiors. Functional aspects related to circulation and integration of different spaces such as residential spaces, lounges, meeting areas, recreational spaces, public spaces in hospitality designs would be emphasized. It also involves application of codes, accessibility guidelines, and policies and procedures for designing hospitality spaces. Concepts, themes, ambience and aesthetics in designing hospitality interiors should be highlighted in hospitality interiors.
The studio exercises may include projects such as hotels, motels, bars, restaurants, coffee shops etc. and preparation of schematic, detailed drawings and contract documents.

References:

HEALTH FACILITY INTERIORS
Course Description:
It involves study of interior visual attributes of health facilities on physiological indicators of wellbeing and health related indicators; and interior finish materials for health care facilities. It involves application of the design process in the development of health facility design projects keeping in view the functional efficiency, health department regulations, and accessible codes. Way finding, signage and graphic identification; air quality; lighting, colour, finishes, furniture etc., in promoting healing effects; transition between levels of care, patient privacy and dignity; security and safety should be considered in designing health facility interiors.
The comprehensive studio develops the student’s ability to design healthcare facilities for both hospital and out-patient settings. The studio exercise includes preparation of detailed drawings and contract documents.

References:

OFFICE INTERIORS
Course Description:
This course focuses on contemporary approaches to office design projects. The subject aids in critical thinking and problem solving skills through space planning and design. It involves the competency to mix design elements with industry-standard systems furniture. The course also emphasizes space planning and volumetric study as it relates to the human body and ergonomics in work environment.
The comprehensive studio includes designing for corporate offices. The studio exercise includes preparation of detailed drawings and contract documents.

References:
2. John Pile - Interior Design

**KITCHEN AND BATHROOM INTERIORS**

**Course Description:**
This course focuses on functional approaches in designing kitchen and bathroom interiors. The subject involves the mix of planning, connectivity and demarcation of activity spaces based on standards. The course also emphasizes space planning and volumetric study as it relates to the anthropometrics and ergonomics in kitchen and bathroom spaces. The designs may focus on modular kitchens with safety standards, storage and optimization of space utilization in kitchen and bathroom spaces.

The studio exercise includes preparation of layout, detailed drawings and contract documents.

**References:**
2. John Pile - Interior Design

**4] BID405 ELECTIVE II**

**GREEN INTERIORS**

**Course Description:**
Introduction – green materials; principles of eco-friendly designs; natural building and eco-friendly design; sustainable materials like bamboo, cork, jute etc.; unexplored alternate materials for furniture and accessories; fabrics; surface finishes; selection of healthy and environmentally responsible materials and products; design concepts, techniques and technologies for green interior design – green walls; design concepts related to use of accessories; reducing energy consumption; systems for reducing energy conservation and water consumption; energy efficient lighting; waste and toxic reduction; recycle and reuse – design concepts; furniture design; product design for interiors using recycling materials; application – study and application of green interiors in residences; hospitality spaces; commercial spaces; offices and public spaces.

**References:**
1. Lori Dennis, Green Interior Design.

**INTERIOR GRAPHICS AND SPACE TRANSFORMATION**

**Course Description:**
Introduction to graphic design; need and importance of way-finding; graphic design theories; signs and symbols - developing ideas from environment; characteristics of signs and symbols; types and uses of symbols; logos and signage design - typography overview; typographic treatment; typographic considerations in signage for non-sighted and low sighted people; overview of signage graphic process; hardware system - connotations of form; sign mounting considerations; sign size considerations; sign lighting; sign materials overview; electronic message displays; stock sign hardware system; sign materials and codes; overview of coatings and finishes applied to sign; signage planning - obtaining information; preliminary design; design; construction; work plan and prototypes; tenders; specifications; on-site management; completion.
References:

INTERIOR ILLUMINATION
Introduction to interior illumination – lighting and vision; units of light; photometry and measurement of lighting; effects and considerations of good lighting; brightness; glare; contrast and diffusion; natural light and illumination – solar energy and its technical applications; shading devices; radiation; outdoor and indoor illumination; advantages of admitting day light; controlling daylight; solar energy systems for lighting; artificial lighting and illumination – colour characteristics of artificial lighting; integration of day lighting with artificial lighting; lighting controls; intelligent building systems for lighting; switches; dimmers; electric light sources; lamps and lighting fixtures; lighting design; installation and application in buildings – lighting needs; calculation of lighting levels; intensity levels; energy and installation costs; selection of fixtures; location and placing of fixture; lighting for schools, offices, libraries, residential, hospital, parking, outdoor; introduction to software programs in lighting.

References:

INTERIOR PHOTOGRAPHY
History of photography, camera and lenses – history of b/w photography; introduction to basic principles of photography and photographic equipment; analog and digital photography; types of cameras; understanding cameras; its parts and controls; accessories; techniques – seeing and photographing; using the view finder; framing up; lighting in photography – quality and quantity; soft and hard; light direction; colour temperature in camera metres; types of lights; proper accessories; reflectors; filters; daylight; artificial light; mixed light; digital photography – introduction, tools, different aspects of taking images; steps in image processing; editing techniques; sequencing; image manipulation using a computer; printing digital formats; presentation of photographs; interior photography and documentation – analysis of subject and content; perspective; image frame and composition; shooting parameters; close-up photography – special equipment; depth of field and aperture; creativity correct exposure; specific lighting; foreground and background; filling the frame.

References:

EIGHTH SEMESTER

1] BID402 PROFESSIONAL TRAINING

Professional Training shall be undertaken by the student during the eight semester of Interior Design to gain practical experience of the general work place in an Interior Design office. The student is expected to work for a period of five months and a monthly log shall be prepared for assessment of the same by the employer and a faculty member from the Department of Design, Manipal University. The student is also expected to undertake an independent critical study of an interior design project and submit the same for evaluation.

The student should involve in various aspects of work in an office like working drawings, presentation drawings, quantity estimation, bill of quantities, site supervision etc. Students should understand professional practice methods of various interior designers, design process from client contacts to production documents, tender documents, production drawings for various works, site supervision etc. for various works. They should also know the Coordination of various agencies – client, members of design team, consultants, contractors, craftsmen and construction supervisors.
### Evaluation Criteria

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#### YEAR 1 / SEMESTER I

| 1 | BID101 | Interior Design | 6 | - | - | 6 | 6 | 50 | - | 50 | 4 |
| 2 | BID103 | Graphics for Interiors – 2 Dimension | 2 | - | 2 | 4 | 3 | 50 | 50 | - | 3 |
| 3 | BID105 | History of Western Civilizations – A Perspective into Interiors | 2 | 1 | - | 3 | 3 | 50 | 50 | - | 3 |
| 4 | BID107 | Visual Arts and Basic Design – I | 4 | - | - | 4 | 4 | 100 | - | - | - |
| 5 | BID109 | Building Construction Materials – I | 2 | - | 2 | 4 | 3 | 50 | 50 | - | 4 |
| 6 | BID111 | Environmental Studies | 3 | - | - | 3 | 3 | 100 | - | - | - |
|     |       |               | 19 | 1 | 4 | 24 | 22 | 400 | - | 200 |   |

#### YEAR 1 / SEMESTER II

| 1 | BID102 | Interior Design – Design Fundamentals | 6 | - | - | 6 | 6 | 50 | - | 50 | 6 |
| 2 | BID104 | Graphics for Interiors – 3 Dimension | 2 | - | 2 | 4 | 3 | 50 | 50 | - | 3 |
| 3 | BID106 | History of Islamic and Eastern Studies – A Perspective into Interiors | 2 | 1 | - | 3 | 3 | 50 | 50 | - | 3 |
| 4 | BID108 | Computer Aided Design – Fundamentals | 2 | - | 2 | 4 | 3 | 100 | - | - | - |
| 5 | BID110 | Building Construction and Materials II | 2 | - | 2 | 4 | 3 | 50 | 50 | - | 4 |
| 6 | BID112 | Design Communication Skills | 2 | 1 | - | 3 | 3 | 50 | 50 | - | 3 |
|     |       |               | 16 | 2 | 6 | 24 | 21 | 350 | - | 250 |   |

#### YEAR 2 / SEMESTER III

<p>| 1 | BID201 | Interior Design – Residential Design | 6 | - | - | 6 | 6 | 50 | - | 50 | 6 |
| 2 | BID203 | Building Construction and Materials – III | 2 | - | 2 | 4 | 3 | 50 | 50 | - | 4 |
| 3 | BID205 | Computer Aided Design – Design Applications | 2 | - | 2 | 4 | 3 | 100 | - | - | - |
| 4 | BID207 | Introduction to Interior Spaces | 2 | 1 | - | 3 | 3 | 50 | 50 | - | 3 |
| 5 | BID209 | History after Revolutions – A Perspective into Interiors | 2 | 1 | - | 3 | 3 | 50 | 50 | - | 3 |
| 6 | BID211 | Building Services – I | 2 | 1 | - | 3 | 3 | 50 | 50 | - | 3 |
|     |       |               | 16 | 3 | 4 | 23 | 21 | 350 | - | 250 |   |</p>
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**YEAR 3 / SEMESTER V**

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**YEAR 4 / SEMESTER VII**

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**YEAR 4 / SEMESTER VIII**

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