

ST. TERESA'S COLLEGE, ERNAKULAM
(AUTONOMOUS)

Affiliated to Mahatma Gandhi University, Kottayam



CURRICULUM FOR
DIPLOMA PROGRAMME
IN INTERIOR AND EXTERIOR SPACE
DESIGNING

Under Choice Based Credit & Semester System
& Outcome Based Education

(2020 Admissions)

PROGRAM SPECIFIC OUTCOMES

PSO1: Recognize & comply with safe working practices, energy and environment conservation and Eco-friendly and sustainable practices in the construction field.

PSO2: Interpret specifications and apply it in the field of work such as drawing for Interior and Exterior Planning and Construction using Dimensioning, Layout, Representation methods, Symbols, Projections, Assembly drawing, Sectional views and Estimations.

PSO3: Draw building service detailing for commercial and residential interiors and prepare submission drawings for sanctions by using CAD and selection of different building materials judiciously after properly analysing them for the construction.

PSO4: Manage official communication in relation to work and related activities, and effectively manage client relations and publicity.

PSO5: Manage the personnel and income and accounts of an enterprise and organize the related tasks in day to day work of an organization for personal & societal growth.

SEMESTER I

Course Code	Course Title	Credits	Course Type
VID1G01D20	English for Communication-I	5	Common Course I
VID1G02D20	Office Management- IT skills, and Bookkeeping	3	Common Course II
VID1G03D20	Basics of Design Theory	4	Core Course
VID1SP01D20	Fine Arts and Crafts (Practical)	5	Skill Practical
VID1SP02D20	Basics of Technical Drawing	5	Skill Practical
VID1SP03D20	Technical Drawing Practice (Practical)	5	Skill Practical
VID1SI01D20	CAD Training (Internship)	3	Skill Internship

SEMESTER I

COMMON COURSE I - GENERAL EDUCATION COMPONENT

VID1G01D20 ENGLISH FOR COMMUNICATION- I

Credits : 5

Total Lecture Hours : 90

Course Outcomes :

CO1: Create positive group communication exchanges through proper application of vocabulary and grammar.

CO2: Identify the main ideas and provide supporting details in academic listening and presentation.

CO3: Comprehend English language

CO4: Manage the reading speed in order to comprehend articles of academic importance

CO5: Write and speak effectively at an interpersonal level

CO6: Pinpoint the different forms of communication to be applied to different contexts

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	2	2	2
CO2	2	2	2	3	2
CO3	2	2	2	3	2
CO4	2	1	1	2	2
CO5	1	1	1	3	3
CO6	2	2	2	3	3

Syllabus Content:

Module I: Learning English

(15 Hours)

The importance of English, uses of English; vocabulary-using a dictionary; Synonyms; Antonyms

Module II: Essentials of English Grammar

(25 Hours)

Sentence- Types of Sentences- Phrases; Articles- Paragraph Writing – Topic Sentences, Supporting Sentences, Concluding Sentences - Parts of Speech- Noun, Verb, Adjectives, Tenses, Modal Auxiliaries, Prepositions, Conjunction – Punctuation - Passive and Active Voice - Reported Speech – Prefixes – Suffixes

Module III: Listening and Reading

(20 Hours)

Barriers to Listening – Academic Listening - Reading Stories – Reading Newspaper

Module IV: Practical

(30 hours)

How to use a Dictionary - Listening Comprehension- Engaging in Conversations - Descriptive Writing

SEMESTER I

COMMON COURSE II - GENERAL EDUCATION COMPONENT

VID1G02D20 OFFICE MANAGEMENT-IT SKILLS AND BOOKKEEPING

Credits : 3

Total Lecture Hours :54

Course Outcomes

CO1: Exercise accounting and record keeping for efficient office management.

CO2: Apply basic computing tools such as MS Office excel and PowerPoint effectively in work management

CO3: Operate internet, E-mail, websites etc in business communication and publicity

CO4: Develop online and offline content for promotion and portfolio management

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	2	3	3
CO2	1	1	1	3	3
CO3	1	1	1	3	3
CO4	1	1	1	3	3

Syllabus Content:

Module I: Introduction to office management (10 hours)

- Definition and components of office management
- Planning and scheduling of office work
- Office administration

Module II: Financial Management (10 hours)

Book keeping - Book keeping (Single and Double entry system), Books of Accounts, Journal, ledger, trial balance, balance sheet, Components of Cost, break even, profit analysis, Budget, Importance of Cost control, Methods of controlling cost.

Accounting and Record maintenance: Basic principles of accounting, assets, liabilities, cost accounting, material management, stock checking; Need, objectives, and types of records - Classification and indexing

Module III: IT literacy and skill enhancement (10 hours)

Basics of Computer, Basics of Operating System, WINDOWS, User interface of Windows OS, Use of External memory like pen drive, CD, DVD etc., Use of common applications- Mail id creation. Word Processing and Worksheet: Basics of Excel worksheets, creating simple worksheets, use of simple formulas and functions. Google Apps – Google Doc, Google form etc.

Module IV: Computer Networking and Internet (10 hours)

Basic of computer Networks (using real life examples), Definitions of Local Area Network (LAN), Wide Area Network (WAN), Internet, Concept of Internet (Network of Networks), Meaning of World Wide Web (WWW), Web browser, Website creation, Web page and Search Engines. Social media sites and its implication. Information Security and antivirus tools, Dos and Don'ts in Information Security, Awareness of IT Act, types of cyber-crimes.

Module V: Related Experiences: (14 hours)

- Planning and scheduling of office work
- Preparation of income and expenditure account
- MS. Word, Excel, PowerPoint creation, use of mail, simple website development
- Audio visual presentations
- Visit to an Architecture office, KINFRA Park etc

SEMESTER I

CORE COURSE: GENERAL EDUCATION COMPONENT

VID1G03D20

BASICS OF DESIGN THEORY

Credits : 4

Total Lecture Hours : 72 hours

Course Outcomes

CO1: Use the concepts of Art, Design and Good taste in design.

CO2: Identify and adopt appropriate ancient designs on present day designing

CO3: Create compositions with design elements and principles.

CO4: Administer colour and lighting style judiciously for interior designing.

CO5: Design special effects and illusions using elements and principles of design in space imaginatively

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	2	2	1	1
CO2	3	2	1	1	1
CO3	1	3	2	1	1
CO4	2	3	3	1	1
CO5:	3	2	2	1	1

Syllabus Content

Module I: Art and Design in Daily Living (10 hours)

Art – Definition, Classification; Design-Definition and Purpose, Difference between Art and Design, Importance of Good Taste, Design Types and Sources-Characteristics-Functional, Structural and Decorative and Ideas of design. Types: Naturalistic, Rustic, Ancient, Traditional, Historic, Period, Stylized, Geometric, Modern, Abstract, Mobile

Module II: Principles and Elements of Design (15 hours)

Elements of design- Line, Shape, Form, Texture, Colour, Pattern, Light and Space, Alteration of Elements of Design, Application on 2-D and 3- D surfaces Principles of design - Proportion, harmony, emphasis, balance, rhythm etc. Application of various types of design, elements of design and principles of designs

Module III: Special Effects and applications using design elements (10 hours)

Optical Illusions, Illusions for Space Enhancement, Motif Development and Pattern Creation, Application of motif in objects suitable for interiors.

Module IV: Colour (12 hours)

Understand colour vocabulary and terminology- Develop a sense of colour combination, after effects of colour. Types of colour schemes based on the colour wheel, colour theory, colour characteristics, colour schemes, Exercises in informed application of basic colour properties and harmonies. Understanding the psychology of colour perception.

Module V: Lighting (10 hours)

Importance of Home Lighting, Types of Lighting- Natural and Artificial - Importance of Natural Lighting for Healthy Environment; Types of Lamps and Lighting Fixtures for Artificial Lighting; Physical and Psychological Aspects of Lighting

Module VI: Design History (15 hours)

Introduction and basics of ancient and modern art and architecture — Greek, Roman, Egyptian, Chinese, Gothic, Renaissance, Indian, etc, and its influence on current designs process, History

of Interior Design in India and Abroad, Introduction to Vaastu and Feng Shui.

Practical / Related Experiences:

Students should maintain a record of all the design activities practised during the semester. The record has to be certified by the instructor in charge and to be presented for the end semester practical examination

SEMESTER I

SKILL COMPONENT

VID1SP01D20 FINE ARTS AND CRAFTS (PRACTICAL)

Credits : 5

Total Lecture Hours : 90 hours

Course Outcomes:

CO1. Prepare illustrations using various media and materials

CO2. Establish proper eye and hand coordination in studio and field observation.

CO3. Determine proportion, scale, and spatial relationships

CO4. Evolve new design concepts through experimentation using principles of visual composition.

CO5. Apply three-dimensional design for 2 Dimensional compositions.

CO6. Create innovative techniques of drawings and crafts.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	1	1
CO2	2	3	3	1	1
CO3	2	3	3	1	1
CO4	2	3	3	1	1

CO5	1	2	2	1	1
CO6	2	2	2	1	1

Syllabus Content:

Module I: Free Hand Drawing (15 hours)

- Indoor and outdoor sketching: of existing objects, in pencil and pen /ink.
- Free-hand sketches of simple objects perspective drawing and rendering of imagined objects, in pencil and pen /ink.
- Study of the principles of visual composition in historic architecture, art and design.
- Introduction to the basic formal concepts in the two-dimensional arts and aesthetic organization from observation of contemporary examples of design
- Using Line, plane and volume as a means to express objective and spatial concepts in various media

Module II: Drawing & Painting: (15 hours)

- Foreshortening, perspective, eye-level, fixed point of Vanishing point, ratio- proportion, sketching, drawing light and shade, Still life objects and live models - anatomy, landscape, vertical, horizontal, two and three-dimensional, transparent and opaque.
- Materials: Paper (Cartridge, Hardboard, Handmade, etc.) Pencil, water, acrylic colour, transparent (Any 2)
- Media of Composition: Collage, Mosaic, Painting, Mural, Fresco, Batik, Tie and Dye (Any 2)
- Exercises in the various painting mediums- watercolour, acrylic, oil etc. (Any 2)

Module III: Rendering and Colouring exercises (15 hours)

- Rendering with pencil and pencil colour.
 - Draft the Interior space design with the help of colour scheme, observing the basic historical and contemporary aspects of colour. Critical thinking and problem-solving skills by the use of colour
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through visual media, Drawings in colour with the use of light and shade, material textures and tonal values

- Proportion and tonal value explorations in the observational study of room settings.

Module IV: Sculpture and Modelling techniques (15 hours)

- 3-dimensional design and concepts. Sculpture, modelling with clay, terra-cotta, carving in Wood, stone, plaster of Paris.
- Techniques and fabrication by the use of materials such as plaster, wire, clay, wood, paint, board, paper, etc.
- Model making of simple and complex objects

Module V: Graphics and Applied Art (15 hours)

- Graphics: Technical skills related to graphics, relief printing, etching, silk screen printing, Cut and paste methods, design idea generation, Graphic symbols in interior spaces
- Applied Art: Book cover design and illustration, cartoon, POP ART, poster, advertisements, animation and printing processes, photography, computer-graphic, hoarding and T.V (Any 2), Explore ideas, form, content and meaning through various modes of art and design- photography, photomontage, collage, audio-visual projections, animations etc. (Any 2)

Module VI: Design Theory interpretations through student projects (15 hours)

- 3-dimensional design and creative ideas to help foster artistic awareness.
- Creation of art objects– collage work, flower making, decoupage, macramé, papier mâché, greeting cards, glass painting, candle making, pot painting, quilling, etc. Wealth from junk-through Reuse, Reduce, Recycle, Upcycle etc.
- Portfolio Assessment: The Art Portfolio will consist of a compilation of all art works, from sketch to finished product. (Any 1 from each module)

SEMESTER I

SKILL COMPONENT

VID1SP02D20 BASICS OF TECHNICAL DRAWING (PRACTICAL)

Credits : 5

Total Lecture Hours : 90 hours

Course Outcome:

CO1: Operate various drawing instruments

CO2: Visualize and render engineering technical drawings

CO3 : Create basic plans and views of interior spaces.

CO4: Develop attractive visual presentations of interiors

CO5: Identify and use graphic symbols and abbreviations as per requirements.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	3	1	1
CO2	2	3	3	1	1
CO3	2	3	3	1	1
CO4	1	3	3	2	1
CO5	2	3	3	2	1

Syllabus Content:

Module I: Interior designing & drawing Tools and Instruments (10 hours)

- Identifying of drawing instruments, layout of drawing sheets by doing small exercises in interior. Tools, equipment & instruments for Design drawing -drafting board, T scale, mini drafter (M.D), Set Square etc. and other small tools and materials
- Recognize & Layout of drawing sheet including title card

Module II: Graphic symbols and abbreviations in design drawing (15 hours)

- Introduction to Indian standard institution
- Introduce the scale MKS and FPS for making the drawing – reduced and enlarged scale drawings
- Lettering- styles and fonts
- Standard sizes & measurements of various interior spaces like (Kitchen, toilet, Bed Room, Living Room, Dining etc.
- Graphics used for interior- Graphics symbols for Door, windows and furniture of different material.
- Ergonomics For space planning, Anthropometric measurements required for space planning.

Module III: Code of practice for general interior drawing. (15 hours)

- Introduction & Importance of lines - Different types of lines
- Projection techniques - Types - Orthography, Metric Drawings / Parallel projection, Oblique, o Axonometric, Isometric
- Functional planning - Preparation of Bubble diagram, Flow of Circulation chart, Line drawing, Drawings to Scale, Working drawings – Elevation and Sections
- Planning and designing of spaces with furniture layout, basic layout of furniture space planning and layout.

Module IV: Free hand and Scaled Drawings (15 hours)

- Introduction to Free hand sketches of graphic symbols.
 - Free hand sketches of Graphic symbols for door windows, furniture, plumbing & sanitary, electrical, landscape
 - Basic knowledge of geometrical shapes - Draw the simple composition of geometrical objects with help of scale. Draft the plan, elevation & sectional elevation & isometric view of geometrical
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solids- Cube, Cuboids, Triangular prism, Cylinder, Pyramid, Hexagonal prism, Hexagonal Pyramid, Cone

Module V: Interior Design Methodology (15 hours)

Design Communication and Representational Techniques: Visualization, Creation of Mood and Illusion, Model making, Presentations to sell ideas and concepts

Module VI: Practical / Related Experiences: (20 hours)

Students should maintain a record of all the design activities practised during the semester. The record has to be certified by the instructor in charge and to be presented for the end semester practical examination

SEMESTER I

SKILL COMPONENT

VID1SP03D20 TECHNICAL DRAWING PRACTICE (PRACTICAL)

Credits : 5

Total Lecture Hours : 90 hours

Course Outcomes:

CO1. Present interior designs using drawing instruments and tools

CO2. Sketch basic and complex geometrical shapes.

CO3. Use engineering scale and free hand sketches in projection techniques

CO4. Create furniture design and generate drawings of detailing.

CO5: Design appealing residential Interior drawings with accuracy.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	1	1
CO2	2	3	3	1	1
CO3	2	3	3	2	1
CO4	1	3	3	1	1
CO5	2	3	3	2	2

Syllabus Content

Module I: False Ceiling & Partition (10 hours)

False Ceiling & Partition Making -Materials used for false ceiling. Types of partition wall- wooden, glass. Materials used for partition. Drawings of false ceiling.

Module II: Flooring & Panelling (10 hours)

Types of floor finishing- method of constructing, mosaic, brick tiled etc. used in floors. Flooring & Panelling Drawing details –tiled, timber, pattern, stone, mosaic, glass, carpets. Details of wooden Panelling.

Module III: Paints & Polishing (10 hours)

Polishes - Different types classification and their application on woods. Paints & Polishing, Design the Painting of walls and ceiling with colour, Design the painting of doors and windows.

Module IV: Interior services (15 hours)

Plumbing and water supply -Types and components- pipelines house drainage, sanitary fittings, Planning of plumbing. Preparation of drawing showing various pipe joints, method of sanitary fittings in buildings.

Lighting: Types of Lighting system in different spaces of interiors, Air conditioner - Types of air conditioning.

- Note: - Necessary practical training will be carried out on site.

Module V: One and two points perspective Projections (15 hours)

Perspective projection - Definition and theory- i. Ground plane ii. Station point iii. Picture plane iv. Horizontal plane v. Ground line vi. Horizontal line or eye level, vanishing point.

- 1 point ii. 2 point iii. 3-point (Describe the one-point perspective with approximate method) Draft one-point perspective view with approximate method (any room) and render it with any medium, Perspective view of furniture which is used in Interiors, one-point perspective and two-point perspective like Bed Room, Drawing Room, Kitchen, Bathroom & Staircase.

Module VI: Residential Project (15 hours)

- Plan Layout: Introduction of Residential project – Planning of Residential interior - planning of residential building in small scale

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- Estimate and costing of different types of material
 - Detail layout plan, elevations, sections and views
 - Application of orthographic and metric drawings in residential design

Module VII: Workshop Calculation and Science (15 hours)

- Units & Measurements- FPS, CGS, MKS/ SI unit, unit of length, Mass and time.
- Fundamentals and derived units Conversion of units and applied problems.
- Building materials: Types, Functions and Properties-Physical & Mechanical, Types - Ferrous & Non-Ferrous, the latest materials for Interior finishing
- Mass, Weight and Density, Ratio & Proportion, Percentage: Introduction, Simple calculation.

SEMESTER I

SKILL COMPONENT

VID1SI01D20 COMPUTER AIDED DESIGN (INTERNSHIP TRAINING)

Total Hours : 3 hours / week

Course Credit : 3

Course Outcomes

CO1. Operate computer for interior designing.

CO2. Draft basic objects using CAD

CO3. Prepare 2 D and 3D objects with CAD

CO4. Create drawings of different types of false ceiling and joinery using CAD

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	3	2	1
CO2	1	3	3	2	1
CO3	1	3	3	1	1
CO4	1	3	3	1	1

Syllabus Content

Module I: Create objects in 2D & 3D using toolbars, commands. (10 hours)

- Drawings in 2D Construction line, Ray, Points. Polyline, Join, Explode.
- ORTHO, OSNAP, GRID, POLAR, TRACKING, SNAP, Dynamic Input.
- Move, Copy, Copy Array Rotate –Copy Rotate, Rotate reference. Scale- Copy Scale, Scale Reference.

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- Offset- Through. Mirror, Stretch, Trim, Extend, Layers, Layer Tools, Colours, Line types, Line Weights, Match Properties Tool Palettes,
 - Design Centre Data Extraction Text: Single line text, multi-Line text, Text styles. Text Align, Fields Multiline Text Options. TXT2MTEXT.
 - Dimension: Dimension style, Scale Factor, and Scale Factor in Primary Units, Tolerance. Leaders & Multi Leaders

Module II: Preliminary Drawing in 3D (10 hours)

- 3D commands and use of different menus.
- Elementary commands and menus of 3D software,
- Drawing practice on 3D software

Module III: Draw different types of false ceiling by using CAD. (10 hours)

- Ceiling Definition of false ceiling to understand the job fabrication installation process of false ceiling with Gyp board / POP board / Ply / Wood Types of ceiling - Grid, Coffered, Cove.
- Plain Finishing materials used for false ceiling- Laminate, veneer, stone, glass, acrylic sheet, MDF, paints, wall paper, fabric, stainless steel, wood.
- Design a false ceiling in a room, specify the level and section and finishing material (laminate, veneer, paints).

Module IV: Draw different types of flooring by using CAD. (10 hours)

Types of floor finishing: Stone, Marble, Mosaic, Vinyl, Vitrified tiles, Ceramic tiles, PVC, Carpet, Laminated, Glass

Preparing of drawing, Design a flooring pattern with finishing material (Marble, vitrified tile, PVC. Laminated), Specify the starting point of flooring, Specify the dimension & sizes)

Module V: Draw different types of carpentry joints by using CAD. (10 hours)

Carpentry joints Types of joints: Butt joint, Mitre joint, Lap joint, Mortise and Tenon joint, Tongue and groove joint, Housed joint

1. Cross joints used in furniture joints used in doors/ windows/ ventilators.
2. Model of Carpentry joints: - Demonstration of staircase with the help of respective models

Module VI: Draw different types of carpentry joints by using CAD. (10 hours)

Drafting simple joints used in furniture: Drafting details drawing of different types of joints, Draft a sheet of door, window, chair, table, bed (Any 3)

Module VII: Internship: (48 hours)

Introduction to CAD in Trade Theory and Practice on CAD with basic command in Trade Practical 3 hours per week are to be imparted throughout the semester.

- Expert lectures may be organized at regular intervals and when required.
- More emphasis to be given on video/real-life pictures during theoretical classes.
- Some real-life pictures/videos on the topics taught in this semester may be shown to the trainees to give a feel of industry & their future assignment.
- Students should maintain a record of all the practical work

SEMESTER II

Course Code	Course Title	Credits	Course Type
VID2G04D20	English for Communication-II	4	Common Course I
VID2G05D20	Entrepreneurship Development	4	Common Course II
VID2G06D20	Design in Everyday life	4	Core Course
VID2SP04D20	Exterior Space Designing	5	Skill Practical
VID2SP05D20	Advanced Drawing Skills	5	Skill Practical
VID2SP06D20	Presentation Skills Using Software (Practical)	5	Skill Practical
VID2SI02D20	Internship/Project (One month)	3	Skill Internship

SEMESTER II

GENERAL EDUCATION COMPONENT

VID2G04D20 ENGLISH FOR COMMUNICATION – II

Total Hours : 72

Course Credit : 4

Course Outcomes

CO1: Create positive group communication exchanges through proper application of vocabulary and grammar.

CO2: Identify the main ideas and provide supporting details in academic listening and presentation.

CO3: Develop speaking ability in English both in terms of fluency and comprehensibility

CO4: Manage the reading speed and comprehension of academic articles

CO5: Assess the different forms of communication to be applied to different contexts

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	3	1
CO2	1	1	1	3	1
CO3	1	1	1	3	1
CO4	1	1	1	3	1
CO5	1	1	1	3	1

Syllabus Content

Module-1 Speaking (15 Hours)

Describing Places, Events and Things – Introducing Oneself - Participating in Conversation - Telephone Skills - Interviews - Dealing with Authorities and Subordinates

Module-2 Writing Models (15 Hours)

Letters - Covering Letter- e-mail – Resume - Writing Reports – Minutes – Notices - Filling Application Forms

Module-3 Presentation Skills (20 Hours)

Soft Skills for Presentations - Effective Communication Skills- Body Language - Choosing Appropriate Medium - Flip charts – PowerPoint Presentation

Module - 4 Practical (22 Hours)

Listening and Note Taking - Listening to announcements – Self Introduction - Mock Interview

SEMESTER II

GENERAL EDUCATION COMPONENT

VID2G05D20

ENTREPRENEURSHIP DEVELOPMENT

Total Hours : 72

Credits : 4

Course Outcomes:

CO1: Describe the concept of entrepreneurship and principles of manning

CO2: Explain the culture and benefits of being an entrepreneur

CO3: Develop solutions to different types of occupational hazards

CO4: Assemble an SSI by carrying out all official formalities associated with it.

CO5: Develop sustainable and green practices

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	1	1	1	2
CO2	1	1	1	1	1
CO3	3	1	1	1	1
CO4	1	1	1	1	1
CO5	2	1	1	1	1

Syllabus Content

Module 1: Basics of entrepreneurship (15 hours)

Concept of Entrepreneurship: Entrepreneur - Entrepreneurship - Enterprises - Performance & Record, Role & Function of entrepreneurs in relation to the enterprise & economy, Entrepreneurial opportunities and the process of setting up a business.

Project Preparation & Marketing Analysis: Qualities of a good Entrepreneur, SWOT and Risk Analysis. Method of marketing, Publicity and advertisement, Marketing mix

Preparation of project, various schemes and Institutes for self-employment. Idea for financing / non-financing support agencies.

Module 2: Entrepreneurship strategies for women empowerment (15 hours)

Investment Procurement: Project formation, feasibility, Legal formalities i.e., Investment procedure - Loan procurement - Banking processes.

Personal Finance Management: Banking processes, Handling ATM, KYC registration, Safe cash handling, Personal risk and insurance.

Manpower Management: Effective Leadership and Communication, Employment- Staff Recruitment, Selection, Placement, Induction, Training, Evaluation and Appraisal

Concept of women entrepreneur – problems – approaches to women empowerment– indicators – global initiatives (welfare and support services, socio-economic programme)

Module 3: Productivity: (15 hours)

Benefits: Personal/ Workman - Incentive, Production linked Bonus, Improvement in living standard. Affecting Factors: Skills, Working Aids, Automation, Environment, Motivation and productivity.

Labour Welfare Legislation: Welfare Acts: Benefits guaranteed under various acts-

Basic Provisions: Idea of basic provision legislation of India. Safety, health, welfare under legislation of India.

Quality Tools: Quality Consciousness: Meaning of quality, Quality characteristic, Quality Management System: Idea of ISO 9000 and BIS systems and its importance in maintaining qualities. Quality Tools: Basic quality tools with a few examples.

Module 4: Occupational Safety, Health and Environment Education Duration (15 hours)

Occupational Hazards: Types and possibilities of Hazards, Occupational health, Occupational hygiene, Occupational Diseases/ Disorders & its prevention. Introduction to occupational safety and health, Importance of safety and health at workplace. Accidents & Safety: Basic principles for protection, protective equipment. Accident prevention and control techniques & safety measures.

First-Aid: Care of injured & sick at the workplaces, First-Aid & Transportation of sick people.

Ecosystem: Introduction to Environment. Relationship between society and environment, Ecosystem and factors causing imbalance, Pollution - types and prevention, Energy Conservation need and practices. Environment Protection- Right attitude towards environment, Sustainable designing and Green construction practices.

Module 5: Related experience: (12 hours)

- Visits to SSI, Women managed organizations, Banking sectors
- Develop a business plan and model that supports the strategy
- Identify the factors that influence selecting a location
- Identify the important issues brought about by the need to hire employees, especially women

SEMESTER II

GENERAL EDUCATION COMPONENT

VID2G06D20

DESIGN IN EVERY DAY LIFE

Credits: 4

Total Hours: 72

Course Outcomes

CO1: Describe the concept of Interior Design

CO2: Explain the design evolution from the perspective of a designer

CO3: Asses the need and types of furniture, furnishings and accessories for homes

CO4: Identify and evaluate space requirement and availability in homes

CO5: Assess designs based on ergonomics and anthropometry

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	3	1	1
CO2	1	3	3	1	1
CO3	1	3	3	1	1
CO4	1	3	3	1	1
CO5	1	3	3	1	1

Syllabus Content

Module 1: introduction to Interior Design (10 hours)

- Interior Design- Importance & necessity of interior designing. Concept and Objectives, Interior design as a profession, Modern interior design features
- Trends in Interior Design: Study of traditional design and decorations, Modern design and decorations, Factors influencing change in Interior design, Design trends around the world

Module 2: Furniture for Interior Spaces (12 hours)

History of Furniture- with Reference Periods and Styles, Types and Classification of Furniture, Upholstered Furniture, Multipurpose furniture, Guidelines for Selection and Arrangement of Furniture

Module 3: Furnishing and accessories (15 hours)

Classification of Soft Furnishings, Study of factors influencing furnishings, Rugs and Carpets, Tapestries, Upholstery, Bed linen,

Window Treatments - Curtains and Draperies- Types and Styles, Accessories for Window Dressings, Dressing Up Windows Creatively,

Accessories: Role in interiors, Study of Kerala Handicrafts and Indian Handicrafts, Basics of Flower Craft and Flower Arrangement, Bouquet making, Indoor Plants and Bonsai

Module 4: Space Design and Organisation (15 hours)

Factors Influencing Life Space Designing - Functionality, aesthetics, Orientation, grouping, circulation, light, ventilation, flexibility, privacy, roominess, economy, services, Ergonomics in Designing, Study of human measurement (anthropometric data) in work space planning, Designing for Differently abled persons

Module 5: Interior Space Organisation (20 hours)

Principles of space planning for houses, Space requirement for various activities in various rooms; Size, layout, finishes, furniture, storage, furnishings, accessories, lighting and colour for various rooms

SEMESTER II

SKILL COMPONENT- THEORY

VID2SP05D20 EXTERIOR SPACE DESIGNING

Credits : 5

Total Hours: 90

Course Outcome:

CO1. Discuss the relationship between the built and the un-built environment in sustainable landscape planning

CO2 Analyze the characteristics of a site for landscape planning

CO3 Create appropriate landscape design for buildings.

CO4 Apply principles of landscape gardening appropriately

CO5 Select garden plants skilfully.

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	2	1	1
CO2	2	3	3	1	1
CO3	2	3	3	1	1
CO4	1	3	3	1	1
CO5	1	3	3	1	1

Syllabus Content

Module 1: Landscaping essentials Landscape Gardening (15 hours)

Meaning and importance of landscaping: Introduction to Landscape Architecture, Landscape Elements and Principles

Historical overview of garden design; Styles and Types of gardens - layout of formal, informal and small, medium, large gardens, - English, Mughal and Japanese garden. Rock garden; Bonsai

Module 2: Garden components – Living and Man made (15 hours)

Plants: Trees, Herbs – annuals and biennials, flowering plants, Shrubs, perennials, cacti, ornamental grass, bamboo and palm; etc.

Garden pavements, flower beds, hedges, edges and borders, topiary, arches, pergolas, Gazebo and garden adornments such as ponds, Rockery, trellis, fountains, Grotto, bird's bath, garden lighting and garden furniture. Modern trends in gardening, Indoor gardens and Atrium

Lawns: Importance of lawn, methods of lawn making, maintenance and care, type of lawn grasses.

Module 3: Landscape design (15 hours)

Site analysis: Site analysis with respect to topography and existing features; slopes, drainage; soil types and layers; sensitive areas and natural ecosystem; vegetation and tree survey etc.

Principles of external space organization- Residential and Commercial layouts

Techniques of landscape construction; Introduction to planting design and plant selection.

Module 4: Green Practices in Gardening (10 hours)

Soil protection during and after construction; reduction of hard paving and circulation areas; water preservation, drip and wick irrigation, efficient landscaping- Xeriscape, Aquaponics, Space Saving design – Vertical and Terrace gardens, terrarium, Inclusion of existing site features.

Module 5: Garden Care: (15 hours)

Routine duties in garden, Garden tools and implements; Soil preparation: soil types, soil treatment, organic manures and fertilizers; Irrigation - methods and routine duties in a garden; Plant propagation –Seed propagation, vegetative propagation/asexual propagation – layering, cutting, grafting, budding; Care of plants – potting - repotting techniques, pruning, disbudding, defoliation, staking and mulching. Green house

Module 6: Related Experience: (20 hours)

Visits to Public and Private Gardens and Plant Nursery

Preparation of the layout of landscaping suitable for residential building / institutions / public buildings

SEMESTER II

SKILL COMPONENT

VID2SP06D20

ADVANCED DRAWING SKILLS (PRACTICAL)

Credits : 5

Total Hours : 90

Course Outcomes:

CO1 Propose residential plans with accuracy and precision

CO2 Draft the structural components of buildings

CO3 Illustrate one and two points perspective view

CO4 Prepare presentations using PowerPoint

CO5 Schedule suitable structural components as per the space and theme

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	1	1
CO2	1	3	3	1	1
CO3	3	3	3	1	1
CO4	1	1	1	3	1
CO5	3	3	3	1	1

Syllabus Content

Module 1: Draw residential plan with necessary working drawing (15 hours)

Planning of Interiors: Space selection for circulation and furniture. Selection of furniture. Uses of furniture templates.

Drafting of Residential Plan (Any Room): Concept plan with circulation flow, Basic furniture layout plan with working drawing, Wall elevation with dimension and specification, Necessary details, Rendering the plan & elevations.

Module 2: Basic knowledge of structural components of building (15 hours)

Preparing drawing: Basic concept of section of a building through toilet & balcony introducing the beam & column.

Basic knowledge of i. Mezzanine floor a) Temporary b) Semi permanent ii. Stone masonry & types iii. Brick masonry & types iv. Lintels & types v. Arches & types and terminology vi. Sunshade

Module 3: Draw different types of Structural components of a building (20 hours)

Stair case: Requirement and placement of good Staircase. Basic terminology of R.C.C.

Staircase. Types of Staircase - Model of Staircase: - Demonstration of R.C.C. Staircase with the help of respective models.

Prepare drawing with technical details of the R.C.C. Stair case, i. Straight Staircase. ii. Open newel Staircase. iii. Dog legged Staircase. iv. Bifurcated Staircase, Calculation of Staircase (trade and riser)

Module 5: Draw doors and windows & details (15 hours)

Wooden Doors & Windows -Introduction of hardware fitting in door & windows with dimension, Fixture and fastening a) hinges, b) bolts, c) handles d) locks

Types of Doors - Placement of door & windows regarding circulation of space -Definition of technical terms of doors & window, Size of doors & windows, ventilators

Model of Door and window: - Demonstrate doors and windows with the help of respective models. - Preparing for the plan, elevation & section of different types of doors

Preparing for the plan, elevation & section of different types of windows

Module 4: Analyse and uses of paints, polish and varnish. (10 hours)

Paints and polishing/varnishing: Types of paints, Painting techniques i. By Brush ii. By Roller iii. By spray gun Paintings defects and remedies. Introduction of polish and varnish: Method of preparation and types of polish on wood. Types of varnishes, Techniques of paints, polishing & varnishing on surfaces. Recognize the tool & equipment and their uses, estimate quantity of materials used on surface and labour cost

Module 5: Presentation with animation (15 hours)

Prepare the PowerPoint presentation, Prepare the PowerPoint animated presentation. Training material - Video presentations with audio input, Generate PowerPoint / video Presentation for Any one of the modules for seminar presentations

SEMESTER II

SKILL COMPONENT

VID2SP07D20

PRESENTATION SKILLS USING SOFTWARE

Credits: 5

Total Lecture Hours: 90

Course Outcome:

CO1 Prepare technical drawings using computer aided designing tools

CO2 Draw different types of partition wall by using CAD

CO4 Sketch plumbing and drainage details using CAD

CO5 Draw lighting and electrical and air-conditioning layout plan using CAD

CO6 Illustrate commercial interiors using different Design software

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	3	1	1
CO2	1	3	3	1	1
CO3	1	3	3	1	1
CO4	1	3	3	1	1
CO5	1	3	3	1	1

Syllabus Content

Module 1: Draw different types of partition wall using CAD (15 hours)

Partition wall: Introduction of partition wall, Properties of a good partition wall, Types of partition wall -i. Brick partition ii. Glass partition iii. Timber or wooden partition iv. Aluminium partition

Design the full height and low height partition wall with different construction and finishing materials, Draft Plan, sectional plan, front elevation and section with specification and dimension.

Module 2: Draw plumbing and drainage details and sanitary fittings using CAD (15 hours)

Plumbing: Purpose and principle of house drainage, Types of Drainage plumbing system -i. One pipe system, ii. Single stack system, iii. Single stack (partially ventilated system) ,iv. Two pipe system.

Sanitation: Traps, i. Gully trap, ii. Intercepting trap, iii. Grease trap, iv. Floor trap or Nahni trap- Waste water disposal: i. Inspection chamber, ii. Septic tank Pipes: i. Soil pipe ii. Waste water pipe iii. Rain water pipe Sanitation fitting: i. Wash basin ii. Sink iii. Bathtub iv. Water closet v. Urinals vi. Flushing cisterns

Layout the plumbing/drainage /Sanitary plan and sectional elevation, Make Top plan, side elevation, and front elevation of all sanitary plumbing fittings with dimension,

Module 3: Draw lighting and electrical layout plan using CAD (15 hours)

Lighting: Introduction of natural and artificial light.

Different types of lighting arrangements i. Direct lighting · Angular lighting · Down lighting · Eyeball fitting · Track lighting · Shade lighting ii. Indirect lighting iii. Diffused lighting iv. Concealed lighting Variety of lamps i. Incandescent ii. Tungsten halogen iii. Fluorescent iv. Mercury v. Sodium vapour vi. LED Electrical accessories i. Switches & sockets with box ii. DB (distribution board) & MCB iii. Lamp holders iv. Ceiling roses

Layout plan of false ceiling with lighting position, dimensions and specifications.

Layout of electrical plan & elevation along with switch board, electrical fittings & light fittings on wall with dimension. Introducing LAN/ CCTV/ Biometric/ Speaker/ Smoke Detector

Module 4: Draw air conditioning layout using CAD (15 hours)

Air conditioning: Introduction of Air Conditioning, Principle of Air Conditioning,

Types of Air Conditioning i. Window Air Conditioning ii. Split Air Conditioning iii. Centralised Air Conditioning iv. Cassette Air Conditioning- Layout plan of Air Conditioning with specification.

Module 5: Draw commercial interiors using different Design software (30 hours)

Planning of commercial interiors: - Introduction of office building. Offices – i. Interior designer/Architect ii. Lawyer office iii. Administration Room iv. Hotel waiting lounge Office design guidelines and office space standard.

Office design project: - Layout plan – Elevations, Necessary working details to execute the project smoothly.

SEMESTER II

SKILL COMPONENT

VID2SI02D20

INTERNSHIP

Credits: 3

Total Hours : 54

Course Outcome:

CO1. Appraise the building finishes available in market

CO2. Formulate estimates of small projects

CO3. Create 3D models and working drawings of objects and projects

CO4. Review the working of design offices, factories and work sites

Mapping of Course Outcomes with Program Specific Outcomes

Mapping	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	1	3	2	1	1
CO2	1	3	3	1	1
CO3	1	3	3	1	1
CO4	1	3	3	1	1

Syllabus Content:

I. Advanced Software Training and Internship in Interior Design Offices (1 month)

II. Modular Kitchens- planning, sectional elevation, with materials & specification - CAD Drawing - estimation of interiors works.

III. Designing one room Apartments / Studio: One room- Preparation of complete Interior Layout / CAD Drawing - estimation of interiors works.

IV. Project (Any two)

a) Exercise on creativity in using waste materials

b) Model making for developing skill of various shapes & colours etc.

c) Plan elevation and views - one room interior.

d) Make a Furniture file with different types of furniture & furniture style. With plan, elevation & section (Any 3 furniture)

V. Compulsory Project Work – Market Study and Presentation

Market survey for:

Any of the following or any new materials related to Building Interior finishes, finishing material, fittings & fixtures.

- Modular kitchen- Hardware and accessories
- Wallpaper, Fabric & other wall covering, paints & polish
- Floor finishes, carpets & rug, Resilient floor covering
- Upholstery material, window treatments & hardware
- Wood & related product like ply, veneer etc.
- Floor or wall tiles, Glasses and types
- metals, wrought iron, copper, bronze, brass, stainless steels
- PVC, and miscellaneous new products
- Lights and electrical fittings
- Sanitary fittings and accessories
- False ceiling and materials. (Presentation of report as Power Point or video)

VI. Industrial Visit: Visit to Offices / Furniture and building material showrooms and factories, different places for interior work and to different sites where interiors works are in progress & Necessary practical training will be carried out on site.
