

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

BUILDING MATERIALS AND CONSTRUCTION TECHNIQUES – I

(THEORY)

Credit hrs : 2 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 40

Internal Assessment: 10

OBJECTIVES

- To enable the students to make use of various types of building materials in designing & planning of various design projects.
- To enable the students to execute construction work in various design projects.

Instructions to Examiner

1. Each theory paper will be of three hours duration.
2. Questions paper will have four units.
3. A total of nine questions comprising of two questions from each unit and one compulsory questions of short answer type covering the whole syllabus will be set.
4. All questions may carry equal marks unless specified.
5. Students will be expected to attempt one question from each unit and the compulsory question.

UNIT-I

- Concrete – Types, Properties and uses.
- Cement – Types, Properties & uses.

UNIT-II

- Brick Masonary, Types of Bonds and Types of Brick Walls, Decorative brick work in interiors.
- Bricks/Tiles- Types, Properties and uses in interior & exterior.

UNIT-III

- Stones - Types, Properties and uses in interior & exterior.

UNIT-IV

- Timber and Plastic: Timber, Types, Properties, uses, seasoning and defects.
- Timber Based Products: Comparative properties and uses of the commercial plywood, block board, particle board, teak ply board, laminates etc

REFERENCES

1. Callender, J.H. Time saver standards for architectural Design Data. McGraw Hill Publishing Co. New York.
2. Kumar, S.Varghese and Saluja,K. Building Construction, Standard Publishers Distributers, Delhi.
3. Sushil Kumar. Building Construction 20th Edition, standard publishers distribution, New Delhi
4. Susan M Winchip (2008) Fundamentals of light, Fairchild publications
5. Pratap R.M (1988) Interior Design Principles and Practice, standard publishers distribution, New Delhi
6. Project Management by S. Chaudhury. Publisher: McGraw Hill Education (India) Private Limited
7. Punmia B.C. 2008,” Building Construction”, laxmi publication Pvt. Ltd. New Delhi

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

BUILDING MATERIALS AND CONSTRUCTION TECHNIQUES – I

(PRACTICAL)

Credit hrs : 2 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 25

Internal Assessment: 25

Objectives:

An interior designer is supposed to make use of various types of materials for conceptualizing, designing and executions of interior design projects.

1. Masonry:

Brick masonry: brick bonds – Zig-Zag & Diagonal

Stone masonry: Ashlar and Rubble

2. Openings:

a) Arches: Types and techniques of construction

Lintels: types and techniques of construction

b) Doors: Door frame and Types of doors with sectional details

c) Windows: Types of windows with sectional details

Ex: Design a door and window of for a given area

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

WORK PLACE DESIGN - I

(THEORY)

Credit hrs : 2 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 40

Internal Assessment: 10

OBJECTIVES:-

- To develop an understanding of designing residential projects.
- To enable the students in creating & designing comfortable workplaces which ensure health & safety of the occupants.

Instructions to the examiner-

1. Each theory paper will be of three hours duration.
2. Questions paper will have four units.
3. A total of Nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus will be set.
4. All questions may carry equal marks unless specified.
5. Students will be expected to attempt one question from each unit and the compulsory question.

UNIT - I

- Illumination**–Importance & its types- General, task and accent lighting.
- Type of illumination sources & their general characteristics.
- Types of lighting fixtures & its selection criteria
- Types of lighting arrangement in a building
- Measuring units of illumination.

UNIT - II

- Thermal environment at work place.
- Sources and effect of heat and cold on human body.
- Factors affecting thermal environment.
- Ways to secure good thermal environment in a building.

UNIT - III

- Ventilation:** Necessity – Types – Natural / Mechanical Ventilation.
- Advantages and Disadvantages of Natural & Mechanical Ventilation
- Methods of achieving Mechanical Ventilation in a building.

UNIT – IV

- Principles of air conditioning- Types of air conditioning, Uses, Essentials of air conditioning.

REFERENCES

1. Callender, J.H. Time saver standards for architectural Design Data. McGraw Hill Publishing Co. New York.
2. Kumar, S.Varghese and Saluja,K. Building Construction, Standard Publishers Distributers, Delhi.
3. Pratap R.M (1988) Interior Design Principles and Practice, standard publishers distribution, New Delhi
4. Jhon F. Pile Interior Design 2nd edition, Harry N. Abrams, Inc Publishers.

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

**WORK PLACE DESIGN - I
(PRACTICAL)**

Credit hrs : 4 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 25

Internal Assessment: 25

OBJECTIVES

- Acquire skill in arranging different areas of a residential building by using principles of design.
- To develop the creative potential of the students through design exercises.
- To enable the students to plan & execute residential projects according to design standards.

Layout plan & elevations of different residential spaces:

- Bedroom
- Kitchen
- Living room
- Bathroom

Residence Design Project

Drawings includes –

- Case studies
- Concept sheet
- Layout plan
- Elevations
- Sections
- Perspective views
- Rendering of above drawings

Survey

- Modular Kitchen industry
- Residential Building

Project

Design and create a lighting fixture

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

FURNITURE DESIGN & INTERIOR GRAPHICS

(THEORY)

Credit hrs : 2 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 40

Internal Assessment: 10

Objectives

- To gain knowledge about different styles of existing furniture
- To gain knowledge about different materials & Finishes used in construction of furniture.

Instructions to Examiner

1. Each theory paper will be of three hours duration.
2. Questions paper will have four units.
3. A total of nine questions comprising of two questions from each unit and one compulsory questions of short answer type covering the whole syllabus will be set.
4. All questions may carry equal marks unless specified.
5. Students will be expected to attempt one question from each unit and the compulsory question.

UNIT – I

- Furniture and importance of furniture designing
- Basic properties of a good furniture and its selection criteria

UNIT - II

- Classification of furniture - Beds, Sofas and Chairs, Tables and desks, Storage units, Screens, Outdoor furniture, Built-in furniture.
- General principles of furniture arrangement for different rooms

UNIT - III

- Upholstered furniture, materials and technique
- Manufacturing process of wooden furniture
- Type of joints and their application.

UNIT - IV

- Main characteristics of material used for construction of furniture
Woods - Solid, Plywood, Veneer, Hardboard, Particle Board, Composite wood etc. Metal, Glass, Plastic and PVC, Bamboo, Marble, Cane & Wrought iron
- Furniture finishes – Types, Characteristics and application techniques

References

1. Rao. M. P. 2012 Interior Design - Principles and Practice, Standard Publisher Distributor, Delhi.
2. Seetharaman P. and Pannu P. 2012. Interior Design and Decoration. CBS Publishers and Distributors, New Delhi
3. Anna. H. Rutt ;Home Furnishing, John Wilay Eastern Pvt. Ltd. New York (1961)
4. VeenaGandotra; MeenakshiShukala and NeerjaJaiswal. Introduction to Interior design & Decoration , Dominat publishers & Distributers

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

FURNITURE DESIGN & INTERIOR GRAPHICS

(PRACTICAL)

Credit hrs : 4 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 25

Internal Assessment: 25

Objectives

- To acquaint the student, with symbols and to impart necessary drafting skills and to express design ideas.
- To develop skills in drafting and rendering which will be utilized for interpreting / reading drawings.
- Development skills to make various projections.
- To develop skills in students to design different furniture items.
- To enable the students to work in furniture industry.

Practical

1. Knowledge of Horizontal and vertical lines circles, curves, parallel curves etc. Exercise: Line weight and line types

Exercise: Draw a composition using Horizontal and vertical lines

Exercise: Draw a composition using circles, curves, parallel curves etc.

2. Knowledge of standardize drawings, importance, various architectural symbols and usage in drawings.

Exercise: Architectural symbols, furniture symbols in plan and elevation.

3. Knowledge of use of engineering scales- metric, feet and inches.

Exercise: drafting 2- Dimensional shapes using different scales

4. Knowledge of two dimensional and three dimensional geometrical shapes.

Exercise: Exercises on three dimensional (solid) geometrical shapes showing simple plan, elevation and isometric view.

5. Knowledge of perspective drawings in interiors and terminology of perspective drafting and drawing, viz planes, vanishing, point in one point & two point perspective.

Exercise: one point & two point perspective of three dimensional geometrical shapes.

6. To gain basic knowledge of simple furniture shapes and their dimensions

Exercise:

- Standard furniture dimensions.
- Free hand drawing of period furniture.
- Free hand drawing of objects of interiors – Furniture and Accessories

7. To be able to draft simple shapes on scale Exercise:

- Drafting of simple furniture objects (Chair& Table) with projections, showing isometric view, front elevation, side elevation, plan etc.

8. To be able to design different furniture items

Exercise:

Make plan, Elevation and isometric views of the following furniture items:

- Design a Sofa for a living room
- Design Bed for Master Bedroom
- Design a wall unit for LCD

Survey: Visit the following manufacturing units and prepare a report.

- Wooden furniture
- Upholstered furniture
- Steel furniture
- Wrought Iron Furniture

Project: Fabricated furniture - Book shelf / Table/ Chair / Storage unit Or Make a model of furniture

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

FUNDAMENTALS OF AUTO CAD

(PRACTICAL)

Credit hrs : 4 / week

Exam hrs : 3

Maximum Marks : 100

Paper : 50

Internal Assessment: 50

OBJECTIVES

The students will learn to use AutoCAD as a drafting tool to produce accurate presentation and working drawings of their design projects and all furniture designs.

1. Getting started with basics

Creating and Saving a new Drawing.

- * Commands and options to create new drawing.
- * Layer
- * Application of layers.
- * Open a new, existing drawing.
- * Save, save as, quit, close, exit.

Exercise: Setting up a new drawing with units, limits etc.

2. Drawing Commands.

- * Poly Line
- * Arc.
- * ellipse.
- * Polygon.
- * Rectangle.
- * SP line.
- * Circle.
- * Hatch.
- * Donuts.

Exercise: Making a composition of different geometrical shapes using various drawing commands.

3. Viewing an Existing Drawing.

- * Redraw and Regen all
- * Regen Auto
- * View.

Exercise: Viewing, zooming of existing drawing made in section

4. Modifying an Existing Drawing.

- * Undo Redo/ Oops.

- * Trim.
- * Move.
- * Offset.
- * Rotate.
- * Array
- * Stretch
- * Divide.
- * Champher.
- * Erase.
- * Break.
- * Copy, multiple copy.
- * Mirror (Mirror test).
- * Change (change properties).
- * Extend.
- * Explode.
- * Blip mode.
- * Scale
- * Fillet.

- Exercise:**
- a) Modifying composition made in section
 - b) Making plan, elevation and section of simple objects.

5. Making and Inserting Blocks.

- * Blocks
- * Insert Block
- * Explode.

Exercise: Inserting furniture, fixtures, trees etc. in the plans, sections and elevations made in section 5.

6. Dimensioning and Text.

- *Dimension type, style, units.
- *Dimension utilities.
- *Dimension variables.
- *Dimensioning of different elements like (Horizontal, vertical, inclined), Arc. Circle Radius, Diameter), continuous dimensioning etc.
- *Editing dimension text and updating (adding new text and editing existing text).
- *Text style – font types, height, width factor etc.

Exercise: Dimensioning and editing text in composition made in Sections 5 and 6.

Project: Make Plan & Elevations of a residential building.

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

ERGONOMICS & HOUSEHOLD EQUIPMENT

(THEORY)

(Common to Composite & IDRM)

Credit hrs : 3 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 40

Internal Assessment: 10

OBJECTIVES:

- To enlighten the student regarding the concept of Ergonomics and its role in improving work efficiency.
- To study the relationship among work, worker and workplace to reduce physiological stress on body.
- To orient the student regarding new trends in household equipment their use and maintenance.

Instructions to the examiner-

1. Each theory paper will be of three hours duration.
2. Questions paper will have four units.
3. A total of nine questions comprising of two questions from each unit and one compulsory question of short answer type covering the whole syllabus will be set.
4. All questions may carry equal marks unless specified.
5. Students will be expected to attempt one question from each unit and the compulsory question.

UNIT-I

- Concept of Ergonomics – Introduction, Importance & scope. Concept of functional design & its implications.
- Elements of Ergonomics - Work & Work place environment, Anthropometry & Biomechanics, Human factors & Human engineering.

UNIT-II

- Worker's considerations in work space design –Anthropometry, Work habits, Work postures, Equipment & clearance space.
- Principles of arranging different work areas in home ergonomically.

UNIT - III

- Household Equipment
 - a) Importance of equipment in daily life

- b) Factors affecting selection of Household Equipments
- Material used in Household Equipments - Aluminum, steel, stainless, copper, Heat resistant glass, Plastics.

UNIT - IV

- Finishes – Applied & Mechanical

- Kitchen Utensils & Tools
 - a) Classification of utensils- surface cookery, oven cookery, serving cookery
 - b) Types of tools
 - c) Cleaning & care of kitchen utensils & tools
 - d) Selection factors for kitchen utensils & tools

References:

- Veena Gandotra, “Essentials of Ergonomics”, Dominant Publishers & Distributors Pvt. Ltd.
- Steidl & Bratton (1968), “Work in the Home”, John Willy & Sons, New York.
- Helen J. Van Zante, “Household Equipment Principles”, PRENTICE – HALL, INC., Englewood Cliffs, New Jersey
- Louise Jenison Peet, “Household Equipment” John Wiley & Sons Inc.

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

ERGONOMICS & HOUSEHOLD EQUIPMENT

(PRACTICAL)

(Common to Composite & IDRM)

Credit hrs : 2 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 25

Internal Assessment: 25

Practical

1. Identify and make a list of Household equipments according to various types
2. Identify different types of kitchen utensils & tools
3. Operation and care of common household appliances – Vacuum cleaner, microwave, refrigerator, food processor
4. Collect Anthropometric data of a worker at rest, normal and maximum vertical and horizontal reaches while seated and standing.
5. Identification and analysis of different postures assumed by women during work.

Survey & Report Writing

- Do a market survey to study latest trends in tools & equipment with regard to finishes and features.

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

Economics and Entrepreneurship Development-I

(Theory)

(Common to all)

Credit Hrs. : 2/week

Exam Hrs. : 3

Maximum Marks: 50

Paper: 40

Internal Assessment: 10

Instructions to the paper setter:

1. Each theory paper will be of three hours duration.
2. Question paper will have four units. Paper setter will set a total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
3. Student will attempt one question from each unit and the compulsory question (Total of five questions)
4. All questions may carry equal marks, unless specified.

Objectives:

1. To prepare the platform where the students view entrepreneurship and self-employment as a desirable and feasible career option.
2. Stimulating the potential to develop entrepreneurial orientation through innovation and creativity
3. To orient the students with basic principles involved in starting and managing a new enterprise

Unit-1

1. Entrepreneurial economics:

- Need and importance
- Entrepreneurship and enterprise

2. Entrepreneurship and role in economic development

- Intrapreneurship and its importance

Unit-II

3. Entrepreneurial Behaviour:

- Types of an entrepreneur
- Entrepreneurial traits

4. Entrepreneurial Motivation

- Types and importance of motivation
- Various motivating factors

Unit-III

5. Women entrepreneurs:

- characteristics
- role and challenges faced during creation and enterprise management

6. Avenues for the growth of women entrepreneurs.

Unit-IV

7. Business Idea/Plan:

- Pitching a business idea and its formulation.
- Difference between Start ups and Small business.

8. Intellectual Property Rights (Creation-Protection-Encashing).

Recommended Readings:

1. Gupta C.B and Srinivisan N.P, “ Entrepreneurial Development” Sultan Chand and Sons, New Delhi
2. Khanna S.S, “Entrepreneurship Development” Sultan Chand and Sons, New Delhi
3. Patel, V. G., “The Seven Business Crises and How to Beat Them” Tata-McGraw, New Delhi, 1995.
4. SIDBI Report on Small Scale Industries Sector (Latest Editions)
5. Taneja, Satish and Gupta, S.L, “ Entrepreneurship Development-New Venture Creating” Galgotia Publishing House, New Delhi, Latest Edition
6. Arora Renu and S.K Sood, “Fundamentals of entrepreneurship and Small business” Kalyani publishers.

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(Semester- V)

Economics and Entrepreneurship Development-I

(Practical)

(Common to all)

Credit Hrs.: 2/week

Exam Hrs.: 3

Maximum Marks: 50

Paper: 25

Internal Assessment: 25

The main objective of the Paper Setter:-

(i) Familiarize the students with the process and skills of creation and management of enterprise. (ii) To plan, use, monitor and control resources optimally and economically.

CONTENTS

1. Preparation of project report of small enterprises/cottage industries/startups. (The students will be advised to develop a structured instrument (questionnaire) for conducting first hand survey of the various aspects of respective enterprise including the process of setting up of an enterprise, motivating factors responsible for undertaking entrepreneurial set up , capital invested, production techniques adopted, marketing practices adopted for sustainability and future prospects of the enterprise surveyed.
2. Class presentation of Project report by conducting the SWOT analysis and suggesting feasible measures for policy implementation.
3. Assignments/ presentation on opportunity scouting and idea generation. The contents of the assignment should be focused on the source of institutional finance to the business idea (including case analysis of any one financial institution)

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

**EXTENSION EDUCATION-I
THEORY
(COMMON TO ALL)**

Credit hours: 2/week

Exam Hrs.: 3

Maximum Marks: 50

Paper: 40

Internal Assessment : 10

Objectives:

1. To understand the concept of extension and its relevance for self & national development.
2. To appreciate the role of Home Science extension in community development.
3. To sensitize students towards various methods, preparation and selection of suitable materials for effective communication.

Instructions to the paper setter:

1. Each theory paper will be of three hours duration.
2. Question paper will have four units. Paper setter will set a total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
3. Student will attempt one question from each unit and the compulsory question (Total of five questions)
4. All questions may carry equal marks, unless specified

UNIT – I

1. Concept of education
 - Formal education
 - Non formal education
 - Informal education
2. Concept of Extension education
 - Meaning and scope of extension
 - Difference between formal education and extension education
 - Extension education process
 - Concept of e-Extension

UNIT – II

3. Principles and philosophy of extension education
 - Principles of extension education
 - Philosophy of extension education
 - Function of extension education
4. Home Science Extension as a discipline and its contribution towards development.

UNIT – III

5. Teaching methods for extension education
 - Concept of extension teaching methods
 - Methods and steps in extension teaching
6. Classification of extension teaching methods
 - According to form and use
 - Advantages and limitations of extension teaching methods

UNIT – IV

7. Audio-visual aids
 - Classification of audio-visual aids
 - Advantages and limitations of various audio visual aids
8. Factors affecting selection and use of extension teaching methods and aids

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- V)

**EXTENSION EDUCATION-I
PRACTICAL
(COMMON TO ALL)**

Credit hours: 2/week

Exam Hrs.: 3

Maximum Marks : 50

Paper : 25

Internal Assessment : 25

Objectives:

1. To prepare the students in developing various teaching methods and aids used in home science extension.
2. To develop the skills of students used in participatory approaches in program planning and evaluation.

Instructions for Paper Setter:

1. Each practical paper will be of 3 hours duration.
2. The question paper should cover the entire syllabus.
3. The file work and viva voice will be of 5 and 10 marks respectively (Total = 15 marks)

Contents:

1. Preparation of non-projected aids-
 - a. Chart/Posters
 - b. Flash cards/Flip book
2. As a traditional media of communication:-
 - a. Preparation of puppets
 - b. Writing stories for puppets.
3. Developing skills and use of following different teaching methods –
 - a. Role play
 - b. Puppet play
4. Visit to a community to study a government or voluntary organization in action.

RECOMMENDED READINGS:

1. Dhama, O.P. Bhatnagar, O.P., Second Edition 1985, Education and Communication for Development, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
2. Dubey V.K. and Bishnoi Indira, First Edition 2008, Extension Education and Communication, New Age International Publishers, New Delhi.
3. Supe S.V., Second Edition 1997, An Introduction to Extension Education, Oxford and IBH Publishing Co.Pvt.Ltd, New Delhi.
4. Ray G.L., Seventh Edition, 2008, Extension Communication and Management, Kalyani Publishers, New Delhi.
5. Desai Vasant, First Edition 1991, Fundamentals of Rural Development, Himalaya Publishing Henge.
6. Oakley P. and Garforth C. FAO, 1985, Guide to Extension Training.
7. Singh K. Uttam, Nayak A.K., Commonwealth Publishers, 2005, Extension Education.

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

BUILDING MATERIALS AND CONSTRUCTION TECHNIQUES – II

(THEORY)

Credit hrs : 3 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 40

Internal Assessment: 10

OBJECTIVES

- To enable the students to make use of various types of building materials in designing & planning of various design projects.
- To enable the students to execute construction work in various design projects.

Instructions to Examiner

1. Each theory paper will be of three hours duration.
2. Questions paper will have four units.
3. A total of nine questions comprising of two questions from each unit and one compulsory questions of short answer type covering the whole syllabus will be set.
4. All questions may carry equal marks unless specified.
5. Students will be expected to attempt one question from each unit and the compulsory question.

UNIT-I Flooring

- Interior floors- Mud, brick, cement, terrazzo, wood, metals, resilient flooring, Hard and soft, mosaic, tiles ,marble, granite,vitrified, their properties and uses
- Floor coverings-rugs and carpets, selection, laying, cost estimation, care and maintenance.

UNIT-II Roofs and ceilings

- Types: flat and pitched roofs, treatment-plastering, plaster of Paris, PVC, wooden,glass etc

UNIT-III Metals, glass& Plastic

- Metals – types of metals, properties and uses in building construction
- Glass: types of glass, properties and uses.
- Use of Plastic and PVC in interior and construction technology

UNIT-IV Painting and plastering

- Paints, types of paints, characteristics of ideal paint, defects in paintings, varnishes polishes, distempers, white wash, painting techniques.

- Plastering- types of plaster, defects in plaster, its repairs, curing and finishes.

REFERENCES

1. Callender, J.H. Time saver standards for architectural Design Data. McGraw Hill Publishing Co. New York.
2. Kumar, S.Varghese and Saluja,K. Building Construction, Standard Publishers Distributers, Delhi.
3. Sushil Kumar. Building Construction 20th Edition, standard publishers distribution, New Delhi
4. Susan M Winchip (2008) Fundamentals of light, Fairchild publications
5. Pratap R.M (1988) Interior Design Principles and Practice, standard publishers distribution, New Delhi
6. Project Management by S. Chaudhury. Publisher: McGraw Hill Education (India) Private Limited
7. Punmia B.C. 2008,” Building Construction”, laxmi publication Pvt. Ltd. New Delhi

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

BUILDING MATERIALS AND CONSTRUCTION TECHNIQUES – II

(PRACTICAL)

Credit hrs : 2 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 25

Internal Assessment: 25

1. Floorings and stairs

Types of flooring and their construction details

Ex: Design flooring for given space

Ceilings

False Ceiling: Types: pop, Gypsum board and ordinary boards with plan and sectional details

Ex: Design false ceiling for a given area

3. Panelling and partitions

Types of panelling with their constructional details

Types of partition with their constructional details

Ex: Design panelling for a wall and a partition for a given area

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

**WORK PLACE DESIGN - II
(THEORY)**

Credit hrs : 2 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 40

Internal Assessment: 10

OBJECTIVES:-

- To develop understanding of designing office & restaurant projects.
- To enable the students in creating & designing comfortable workplaces which ensure health & safety of the occupants with effective planning

Instructions to the examiner-

1. Each theory paper will be of three hours duration.
2. Questions paper will have four units.
3. A total of nine questions comprising of two questions from each unit and one compulsory question of short answer type covering the whole syllabus will be set.
4. All questions may carry equal marks unless specified.
5. Students will be expected to attempt one question from each unit and the compulsory question.

UNIT - I

- Thermal Insulation: Necessity, general principles, thermal insulating materials, Techniques of thermal insulation.

UNIT- II

- Sound Insulation: Definition, Importance, Types of sound insulating materials, Defects due to reflected sound - echo, reverberation & absorption.

UNIT -III

- Secure building design- its necessity, Ways of Monitoring and surveillance in a building.

UNIT- IV

- Fire Safety-its need, Characteristics of a good fire proof material, Role of a designer towards fire, Fire detection & extinguishing systems

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

**WORK PLACE DESIGN - II
(PRACTICAL)**

Credit hrs : 4 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 25

Internal Assessment: 25

OBJECTIVES

- Acquire skill in arranging different areas of offices & restaurants.
- To develop the creative potential of the students through design exercises.
- To enable the students to plan & execute interior projects according to design standards.

1. Office Design Project

- Project introduction
- Client profile/ company profile/Design brief
- Case studies
- Design layout
- Materials board (finishes board)
- Presentation Drawings
- Perspective view of the reception and waiting area

2. Restaurant Design Project

- Project introduction
- Client profile/ company profile/Design brief
- Case studies
- Design layout
- Materials board (finishes board)
- Presentation Drawings
- Perspective view of the reception and waiting area

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

**SUSTAINABLE BUILDINGS
(THEORY)**

Credit hrs : 2 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 40

Internal Assessment: 10

OBJECTIVES:-

- To provide knowledge to the students about the concept & importance of sustainable buildings.
- To enable the students to use sustainable building materials in design projects.
- On successful completion of the course the students should have understood the importance of green building technology.
- Acquired knowledge in recent green building materials and to trap rain water

Instructions to the examiner-

1. Each theory paper will be of three hours duration.
2. Questions paper will have four units.
3. A total of Nine questions comprising of two questions from each unit and one compulsory question of short answer type covering the whole syllabus will be set.
4. All questions may carry equal marks unless specified.
5. Students will be expected to attempt one question from each unit and the compulsory question.

UNIT- I

- Sustainable buildings –Introduction, Concept, Importance and Benefits.

UNIT - II

- Principles of Sustainable design - Economy of Resources/ Resource conservation, Life Cycle Design, Humane Design.

UNIT- III

- Methods of achieving sustainable designs – Methods of conserving resources i.e. energy, water & material, Use of sustainable building construction material, Planning & designing sustainable buildings.

UNIT -IV

- Indian Green building Council - Green building rating system in India

References

- Jong-Jin Kim, 1998, “Sustainable architecture module: Qualities, Use, & Examples of Sustainable Buildings Materials”, National Pollution Prevention Center for Higher Education
- Charles J kibert (2013) “Sustainable Construction: Green building design & delivery”, Hoboken, N.J, John Wiley & Sons.
- Despande, R.S, (1974), “Build your own Home”, United book corporation, Poona.

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

**SUSTAINABLE BUILDINGS
(PRACTICAL)**

Credit hrs : 2 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 25

Internal Assessment: 25

Practical

- Make logos used for Green building concept
- Design a logo on Green Building concept
- Make a utility / decorative article out of waste.
- Make a list of the articles which can be reused, recycled & reduced
- Visit to sustainable buildings & make presentation.
- Display on sustainable building concept.

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

ADVANCED AUTO CAD

(PRACTICAL)

Credit hrs : 5 / week

Exam hrs : 3

Maximum Marks : 100

Paper : 50

Internal Assessment: 50

OBJECTIVES

The students will learn to use AutoCAD as a drafting tool to produce accurate presentation and working drawings of their design projects and all furniture designs.

1. Plotting Drawings.

*Plot command.

* Selecting area for plotting *

Scale of plot, scale to fit. *

Selecting plotting device.

*Selecting paper size and type.

* Selecting black and white or colored plots. *

Selecting appropriate print speed, quality. *

Print preview.

2. 3D Modelling

* Extrude section, slice, solid editing.

* Rendering, shading and hide commands

* Importing and exporting library

Exercises

1. Design a Furniture for different rooms in 2D & 3D
2. Make detailed Plan and Sectional elevations of an Office.

Note:

There will be 2 practical's per week and each practical will be of two hours. Final practical examination will be of three hours.

Final practical examination will be set by the external examiner on the spot.

The file work and session work will be of marks and marks respectively

References

- AutoCAD manual (Auto Desk)
- Dummy Series of Books (AutoCAD)
- Trenches, S. and Madsen, D. AutoCAD and its Applications
- Finkelstein, E. AutoCAD 2010Bible

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

**CONSUMER EDUCATION
(THEORY)
(Common to Composite & IDRM)**

Credit hrs : 3 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 40

Internal Assessment: 10

OBJECTIVES:-

- To enable students become potential consumer by knowing consumer rights and responsibilities.
- To impart education regarding sound buying practices, frauds and malpractices related to consumer goods.
- To orient the students regarding product safety aids and ensuring the quality purchase.
- To enlighten the students regarding the consumer protection laws & procedure for redressal.

Instructions to the examiner-

1. Each theory paper will be of three hours duration.
2. Questions paper will have four units.
3. A total of Nine questions comprising of two questions from each unit and one compulsory question of short answer type covering the whole syllabus will be set.
4. All questions may carry equal marks unless specified.
5. Students will be expected to attempt one question from each unit and the compulsory question.

UNIT - I

- Consumer Education- Meaning & its need.
- Sound buying practices – What, where, how & when to make purchase.

UNIT - II

- Consumer rights & responsibilities
- Consumer protection through consumer aids – Labels, Catalogues, Advertisement, Guarantee/Warranty.

UNIT - III

- Consumer protection through certification marks – PFA, FPO, ISI,
- Agmark, Hall mark, Ecomark, Wool Mark, Sanforizing, Mercerization.

UNIT – IV

- Role of government agencies in consumer affairs - Directorate of Marketing & Inspection, Bureau of Indian Standards(BIS), Food testing Laboratories under Food Adulteration Act, Monopolistic and Restrictive Trade Practices Act(MRTP), Controller of Weights & Measures, Food Safety & Standard Authority of India(FSSAI)

References

1. Premavathy Seetharaman 2002“Consumerism Strategies and Tactics” CBS Publishers & Distributers, New Delhi
2. H.K. Sawhney 2007”Family Finance & Consumer Studies” Elite Publishing House Pvt. Ltd. New Delhi
3. Khan ,Matin 2001 “ Consumer Behaviour , “ New Age International (p) Ltd.
4. Engel, F, James and Blackwell, D, Roger “ Consumer Behaviour”, Holt Saunders International Editions
5. Bitta,della, J Albert “Consumer Behaviour: Concept and Applications” McGraw Hill International editions

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

CONSUMER EDUCATION

(PRACTICAL)

(Common to Composite & IDRM)

Credit hrs : 2 / week

Exam hrs : 3

Maximum Marks : 50

Paper : 25

Internal Assessment: 25

Practical

- Prepare a list of certification marks. Make logos & write the product category.
- Collection & review of labels for different products. – Apparels, Food items, Electronic products.
- Procedure for filing consumer complaint & redressal.
- Identify the buying practices adopted by youngsters.
- Identification of stamp for standard weights & measuring equipment.
- Assignment on Right to Information Act and Right to Service Act
- Display on consumer awareness practices.

Survey

Visit to testing labs & report writing.

Market visits to check weights & measures and imitations.

Visit to consumer courts & report writing.

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

Economics and Entrepreneurship Development-II

(Theory)

(Common to all)

Credit Hrs. : 2/week

Exam Hrs. : 3

Maximum Marks: 50

Paper: 40

Internal Assessment: 10

Instructions to the paper setter:

1. Each theory paper will be of three hours duration.
2. Question paper will have four units. Paper setter will set a total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
3. Student will attempt one question from each unit and the compulsory question (Total of five questions)
4. All questions may carry equal marks, unless specified.

Objectives

1. To introduce the students to the world of business by developing in to them the core skills and competencies required for an entrepreneur.
2. To learn the process of creation and management of entrepreneurial venture.

Unit-I

1. Small business enterprise management:
 - Setting up of small scale enterprise.
 - Institutions assisting Small business enterprises in India
2. Problems of small business enterprises in India.

Unit-II

3. Business Environment:
 - Types of Business environment: Micro and Macro
 - Factors affecting business environment
4. Profitability of business:
 - Social cost and benefit Analysis

Unit-III

5. Business marketing:
 - Marketing strategies-packaging, advertising, e-marketing, personal selling
6. Four Ps of marketing:
 - Product, Price, Place and Promotion.

Unit-IV

7. Project Finance
 - Long term and short term sources of finance
 - Fixed capital and Working capital
8. Project Formulation
 - Need and scope
 - Elements of project formulation

Recommended Readings:

1. Gupta C.B and Srinivisan N.P, “ Entrepreneurial Development” Sultan Chand and Sons, New Delhi
2. Khanna S.S, “Entrepreneurship Development” Sultan Chand and Sons, New Delhi
3. Patel, V. G., “The Seven Business Crises and How to Beat Them” Tata-McGraw, New Delhi, 1995.
4. SIDBI Report on Small Scale Industries Sector (Latest Editions)
5. Taneja, Satish and Gupta, S.L, “ Entrepreneurship Development-New Venture Creating” Galgotia Publishing House, New Delhi, Latest Edition

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

Economics and Entrepreneurship Development-II

(Practical)

(Common to all)

Credit Hrs.: 2/week

Exam Hrs.: 3

Maximum Marks: 50

Paper: 25

Internal Assessment: 25

The main objective of the Paper setter:

- (i) Develop the ability to select potential areas for self-employment.
- (ii) To acquire the knowledge of optimum use of human resources.

CONTENT

1. Case study of an entrepreneur (at least one for successful and one for failure enterprise). The case study will include:

- 1. Important features of an enterprise.
- 2. Competencies of an entrepreneur.
- 3. Sources of finance
- 4. Reasons for success and failures.
- 5. Preparation of a report on the basis of case study analysis and giving innovative ideas for better enterprise management.

2. Developing a Business Plan for Micro enterprises. Calculation of Breakeven point and conducting feasibility analysis.

3. Steps to organize and manage any one of the

following: a. Cafeteria/Diet clinic

b. Nursery school/Day care

c. Boutiques/window and interior store display

d. Interior Design studios.

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(Semester- VI)

**EXTENSION EDUCATION-II
THEORY
(COMMON TO ALL)**

Credit hours: 2/week

Exam Hrs.: 3

Maximum Marks: 50

Paper: 40

Internal Assessment : 10

Objectives:

1. To understand the concept of extension and its relevance for self & national development.
2. To appreciate the role of Home Science extension in community development.
3. To create awareness about rural development and various programs and agencies involved in it.

Instructions to the paper setter:

1. Each theory paper will be of three hours duration.
2. Question paper will have four units. Paper setter will set a total of nine questions comprising of two questions from each section and one compulsory question of short answer type covering the whole syllabus.
3. Student will attempt one question from each unit and the compulsory question (Total of five questions)
4. All questions may carry equal marks, unless specified.

UNIT – I

1. Rural development
 - Concept of rural development
 - Role of extension workers in rural development
 - Qualities of extension worker
2. Rural Development Programmes in India
 - Integrated Child Development Service (ICDS)
 - Integrated Rural Development Programme (IRDP)
 - Mahatma Gandhi National Rural Employment Guarantee Act(MGNREGA)

UNIT – II

3. Community development
 - Concept and origin of community development
 - Basic features of community development
 - Philosophy of community development

4. Introduction to Panchayati Raj-
 - Concept of three tier system of administration
 - Evolution of panchayati Raj
 - Meaning of democratic decentralization

UNIT – III

5. Extension programme
 - Concept of extension programme.
 - Characteristics of a good extension programme.
6. Participation in extension programme
 - Advantages of people's participation in extension programme
 - Reasons for non-participation of people
 - Levels of participation

UNIT – IV

7. Extension programme planning
 - Concept of extension programme planning
 - Principles of extension programme planning
8. Process of Extension Programme Planning-Collect facts, analyse situation, identifying problems, decide objectives, develop plan of work, execute plan, evaluation of progress , reconsideration

B. Sc. Home Science Interior Design & Resource Management (IDRM)

(Semester- VI)

EXTENSION EDUCATION-II (PRACTICAL) (COMMON TO ALL)

Credit hours: 2/week

Exam Hrs. : 3

Maximum Marks: 50

Paper : 25

Internal Assessment:25

Objectives:

1. To enable the students to carry out their social responsibility by extending their knowledge and services to the people in need.
2. To develop skills in the use of participatory approaches in programme planning and evaluation.

Instructions for Paper Setter:

1. Each practical paper will be of 3 hours duration.
2. The question paper should cover the entire syllabus.
3. The file work and viva voice will be of 5 and 10 marks respectively (Total = 15 marks)

CONTENTS

1. Survey of a specific community for need assessment.
2. Presentation of planning and organization of a need based extension programme for the selected community in relation to anyone of the following aspects:-
 - a. Literacy
 - b. Income Generation
 - c. Health
 - d. Social Evil
3. Conduct an extension or outreach activity in a selected community.
4. Evaluation of the above extension or outreach activity conducted.

RECOMMENDED READINGS:

1. Dhama, O.P. Bhatnagar, O.P., Second Edition 1985, Education and Communication for Development, Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
2. Dubey V.K. and Bishnoi Indira, First Edition 2008, Extension Education and Communication, New Age International Publishers, New Delhi.

3. Supe S.V., Second Edition 1997, An Introduction to Extension Education, Oxford and IBH Publishing Co.Pvt.Ltd, New Delhi.
4. Ray G.L., Seventh Edition, 2008, Extension Communication and Management, Kalyani Publishers, New Delhi.
5. Desai Vasant, First Edition 1991, Fundamentals of Rural Development, Himalaya Publishing Henge.
6. Oakley P. and Garforth C. FAO, 1985, Guide to Extension Training.
7. Singh K. Uttam, Nayak A.K., Commonwealth Publishers, 2005, Extension Education.