# **M.Sc. HOME SCIENCE**

# **BRANCH X-B**

# FAMILY RESOURCE MANAGEMENT

# SEMESTER SYSTEM

**2021 ONWARDS** 

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# **PROGRAMME SPECIFIC OUTCOMES**

- PO1: To introduce students to resources principles and skill of management
- **PO2:** To impart knowledge on the organizational and procedural aspects of front office and housekeeping department of various institutions.
- **PO3:** To acquire knowledge on the functions of various areas in a food service institution.
- PO4: To construct a research design and to formulate research reports
- **PO5:** To accomplish effective communication etiquettes and manners in dealing with guests, colleagues and management.
- **PO6:** To gain knowledge on landscape gardening.
- PO7: To learn aesthetic skills in applying principles of interior decoration.
- **PO8:** To apply practical knowledge and skill in treating home decoration and commercial centres.
- **PO9:** To enlighten students about the duties and responsibilities of a wise consumer.
- **PO10:** To make students aware of the role of ergonomics in improving work efficiency.
- **PO11:** To impart information on the various sources of finance and also on the process of setting up small enterprise.
- **PO12:** To apply excel and SPSS in data analysis.
- **PO13:** To enable students to learn about e types and importance of furniture and furnishings.
- PO14: To acquaint the students with the need of energy conservation.
- **PO15:** To understand about the prevalence and extend malnutrition in India, as well as the nutritional status of the community.

# **COURSE STRUCTURE & MARK DISTRIBUTION**

# **M.Sc. HOME SCIENCE**

# Branch XB – Annexure-Family Resource Management Course& Mark distribution

Semest	Paper code	Title of the paper	Distribution of hour / semester	Instructio nal hrs/week		ESE durati on	Maximum Marks		
er				L	P		CA	ESA	Tota
1	HS211B	Advanced Human	110	6	-	3	25	75	100
		Resource Management							
	HS212B	Hospitality Management	110	6	-	3	25	75	100
	HS213B	Food Service	110	6	-	3	25	75	100
		Management							
	HS214B /C/D/E	Research Methodology	120	7	-	3	25	75	100
		Total	450	25	-	-	100	300	400
2	HS221B	Hospitality Management (Internship & Viva Voce)	120	-	6		25	75	100
	HS222B	Advanced Landscape Designing	110	6	-	3	25	75	100
	HS223B	Housing &Interior Designing	110	6	-	3	25	75	100
	HS224B	Housing &Interior Designing, (Practicals)	120	-	7	3	25	75	100
		Total	450	12	13	-	100	300	400
3	HS231B	Consumerism	110	6	-	3	25	75	100
	HS232B	Ergonomics	110	6	-	3	25	75	100
	HS233B	Entrepreneurship Development	110	6	-	3	25	75	100
	HS234B /C/D/E	Statistics and Computer Application	120	7	-	3	25	75	100
		Total	450	25	-	-	100	300	400
4	HS241B	Furniture and Furnishings	110	6	-	3	25	75	100
	HS242B	Energy & Environment	110	6	-	3	25	75	100
	HS	Applied Nutrition &	110	6	-	3	25	75	100
	243B	Extension (Theory)							
	HS 244B	Women's studies	110	7	-	3	25	75	100
		Total	450	25	-	-	100	300	400
	HS245B	Dissertation	-	-	-	-	-	100	100
	HS246B	Comprehensive Viva	-	-	-	-		100	100
		Tutorial work	5hrs/week	-	-	-	-	-	-
		Grand Total		86	13	-	400	1400	1800

ESA-End semester assessment.

# UNIVERSITY OF KERALA

# MSc -HOME SCIENCE-Semester System

# (2021 ADMISSION ONWARDS)

# **Branch XB FAMILY RESOURCE MANAGEMENT**

#### Semester –I

Advanced Human Resource Management. Hospitality Management. Food Service Management.

Research Methodology.

## Semester –II

Hospitality Management (Internship)

Advanced Landscape Designing.

Housing and Interior Designing. (Theory)

Housing and Interior Designing.(Practical)

#### Semester –III

Consumerism.

Ergonomics.

Entrepreneurship Development.

Statistics and Computer Application.

# Semester –IV

Furniture and Furnishings.

Energy and Environment.

Applied Nutrition and Extension. (Theory)

Woman Studies

Dissertation

Viva Voce

# Branch X B Family Resource Management

Semester	<b>C.A*</b>	ESA**	Total
Semester I	100	300	400
Semester II	100	300	400
Semester III	100	300	400
Semester IV	100	300	400
Dissertation			100
Comprehensive Viva Voce			100
Grand Total			1800

 Image: Second continuous Assessment

• \*\*ESA End Semester Assessment

# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 ADMISSION ONWARDS) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER –I HS211B PAPER-I-ADVANCED HUMAN RESOURCE MANAGEMENT (Theory) SYLLABUS

# **Total Hours: 110**

#### **Objectives**

- 1. To introduce students to resources, principles and skills of management.
- 2. To familiarize students with micro and macro level management practices.
- 3. To enable students to gain knowledge on
  - a) Concepts of management.
  - b) Managerial abilities
  - c) Philosophy and values in life

#### **Course outcome**

- CO1: To understand the significance and scope of management.
- **CO2** :To know about the managerial functions, importance of decision making and communication.
- CO3: To understand about HR planning
- CO4: To know about recruitment and selection.
- **CO 5**: To understand about job analysis, job evaluation and job design and disciplinary procedures.

# UNIT I: Introduction to Management process, functions, Decision Making and Communication

Introduction to management, significance and scope. Classification of managerial functions, –planning, organizing, staffing, directing and controlling, Levels of management. Decision making - Definition, types, steps in decision making process. Communication – meaning, significance, key elements in communication, barriers in communication, utility of media for communication effectiveness.

# **UNIT II: Introduction to Human Resource Management:**

Introduction, concept of human resource management, scope of human resource management, functions of human resource management, role of HR executives.

#### **UNIT III: Human Resource Planning, Recruitment and Selection:**

Process of human resource planning, need for human resource planning.

Concept of Recruitment, Factors Affecting Recruitment, Sources of Recruitment, Recruitment Policy, Selection, Selection Process, Application Forms, Selection Test, Interviews, Evaluation, Placement, Induction.

#### **UNIT IV: Job Evaluation, Job Analysis and Design:**

Concept of job evaluation, objectives, techniques, advantages and limitations. **Job Analysis and Design:** Concept of job analysis and design, process of job analysis, method of job analysis, Job analysis information, concept of job design.

#### **UNIT- V: Employee Misconduct and Disciplinary Procedure:**

Meaning and objectives of discipline, principles for maintenance of discipline, basic guidelines of a disciplinary policy, Disciplinary action - - penalties, procedure for disciplinary action. Grievances and Grievances Procedure: Concept of grievance, causes of grievances, the grievance handling procedure, need for grievance redressal procedure, Employee Welfare and Working Condition: Concept of employee welfare, Welfare measures, types, employee welfare responsibility, the business benefits of employee welfare activities.

#### **Related Experience:**

1. Visit to government / private organisations to survey management practices.

#### **References:**

- An introduction to family resource management .Seetharaman P, Bata.S, Mehra .P. 2005 CBS Publishers and distributors, NewDelhi.
- Appraising and developing managerial performance, Academy of Human Resource Development. B.K.Publishers, Delhi.
- o Appraising and developing managerial performance, Academy ofHuman

Resource Development . B.K Publishers ,Delhi

- Financial management : An approach and conceptual approach . Tata Mc Graw Hill, NewDelhi.
- Human resource management .Gupta .S.K and Joshi .R., Kalyani Publishers. NewDelhi.
- Managing Human Resources, Cascio Wayne . F (1985) Mc Graw Hill Book Co. .NewYork.
- Personal and Human Resource Management. Decenzo. D.A. and Robins.S.P. 1993. Prentice Hall . NewDelhi.
- $\circ~$  Human Resource Management , Gupta.C.B (2010) Sultan Chand and Sons , NewDelhi

# UNIVERSITY OF KERALA M.Sc HOME SCIENCE-SEMESTER SYSTEM (2021 ADMISSION ONWARDS) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER-I HS212B PAPER-II HOSPITALITY MANAGEMENT (Theory) SYLLABUS

## Total hours: 110

## **Learning Objectives:**

To enable students:-

- Gain insight into aspects of hospitality for guest satisfaction.
- Impart knowledge on the organizational and procedural aspects of front office and housekeeping departments of various hospitality institutions.
- I To accomplish effective communication etiquettes and manners in dealing with guests, colleagues and management.

#### **Couse outcomes:**

- CO 1 : To understand the type of hotel and other hospitality institutions.
- CO 2: To know about the structure and function of front office department.
- **CO 3**: To analyse the functions of housekeeping department.

# UNIT I: Introduction to hospitality institutions and their organizational structure

Classification of hotels and other hospitality Institutions, importance of tourism for hospitality industry, types of operations, Departmental classifications, room types and rates of rooms and food plans

# **UNIT II: Front Office – structure and, functions**

Importance of the department, Layout and planning, Staffing pattern and duties, Basic Terminology used in the department, Qualities and etiquettes of front office staff, VIP Procedures, Computerized reservation, Arrival and departure, C-Form, procedures of check- in and check-out, Key handling and control, Lobby management, Co-ordination and communication of front office with other departments; Importance of reports in the front office, the front desk log, electronic front office, room status indicator, accounting equipment, Book Keeping and Record Maintenance.

# **UNIT III: Functions of Housekeeping**

Importance and need of Housekeeping Department, Organization and duties, Hierarchy and Job descriptions, Layout, Inter-departmental coordination and communication, Interrelationship with Personnel Department: Importance and functions, Qualities and role of housekeepers

# **UNIT IV: Linen room and Laundry management**

Classification and selection of linen, Par stock determination, storage, Distribution and control of linen and uniforms, Condemnation and reuse, bed making and turning down, Layout and physical attributes of Linen room and linen storage, Laundry: Types, Staff and duties, Equipments, Methods of washing, finishing processes and stain removal.

# **UNIT V: Upkeep, Sanitation and Safety Aspects**

Cleaning Guest rooms and service areas, Rules, procedures and principles, types of room cleaning- daily, weekly, spring cleaning etc, Equipments, cleaning agents and maid's trolley, Sterilization, disinfection, Control of infestation, Room inspection checklist, Integrated Waste Management (IWM), First Aid and safety means and measures, fire preventions and control, accident prevention, major security measures

#### **UNIT VI: Aesthetic Treatments of Interior Environment**

Interior decoration in Commercial / hospitality areas, window treatments, Selection and care of Furniture, furnishings, lighting and accessories, Floral decorations and table setting and layout, Indoor gardens and Landscaping.

#### **Reference:**

- Andrews S., (2000) Hotel Front Office Training Manual, Tata Mc Graw Hill Publications, New Delhi
- Andrews S., (2000) Hotel Housekeeping Training Manual, Tata Mc Graw Hill Publications, New Delhi

- Ball S. et al, (2003) Hospitality Operation-A System Approach, Thomson Learning, U.K.
- Branson J.C. and Lennox M., (1988) Hotel, Hostel and Hospital Housekeeping, Edward Arnold Publishers, London
- Chakravarthy, Hotel Management (Vol. I andII)
- Express Health Care Management

# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 ADMISSION ONWARDS) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER -I HS213B PAPER -III FOOD SERVICE MANAGEMENT (Theory) SYLLABUS

#### **Total hours: 110**

## **Learning Objectives:**

To enable students

- To acquire knowledge on the functions of various areas in a food service institution
- Understand the various aspects of volume food production and service.

# **Course Outcome**

- **CO 1**:To know about the types of food service establishments, their characteristic and departments in food service operation.
- **CO 2:** To understand about the organizational structure and management of food service establishment.
- CO 3: To know about large quantity cooking and standardization of recipes

# **UNIT I: Introduction to Food Service**

History, scope and development of food service institutions, Factors affecting development, recent trends, Types of food service establishments (commercial and non-commercial) and their characteristic features, Departments in food service operations.

#### **UNIT II: Organisation and Management of Food Service**

Definition, Organisation structure, Types of organisation, Functions of management, Principles of management, Tools of management -Organisation chart, Job description, Job specification, Work schedule, Job analysis, Total Quality Management (TQM).

#### **UNIT III: Facility Design and Equipment**

Design considerations for kitchen, Layout of kitchen, Types of kitchen, Work centres in the kitchen layout, Maintenance of kitchens, Storage area – location, types of storages, planning and layout of storage spaces, Service area – location and planning, Equipment for kitchen and service areas – classification, selection, purchase, care and maintenance.

#### **UNIT IV: Volume in Food Production**

Types of foods, Classification of beverages, Purchasing, receiving, storage and issuing of food, Menu – Definition, functions, classes, French classical menu, Factors considered while planning menus, Advantages of menu planning, Menu groupings, Menu balance, Steps in menu construction, Menu display / designing the menu card / cover, Food production process, Large quantity cooking techniques, Standardisation of recipes, Portion control.

#### **Unit V: Table Setting and Arrangement**

Table setting, Points to be remembered while laying a cover, Napkin folding techniques, Indian and Western styles of table settings, Table etiquettes, Flower arrangement.

# **UNIT VI: Food Service**

Food service delivery system (centralised and decentralised), Type of food service systems (conventional, commissary, ready prepared, assembly), service styles (table, counter, tray, silver, plated, cafeteria, buffet, self, English, Russian, French, Continental), Specialised forms of service (hospital, airline, rail, home delivery, catering and banquet, room and lounge service).

#### References

- Sudhir Andrews (2013), Food and beverage service- Training manual, Tata McGraw – Hill company Ltd.
- Mohini Sethi and Surjeet Malhan (1995), Catering Management An Integrated Approach, Wiley Eastern Ltd.
- 3. R Singaravelavan (2014), Food and Beverage service, Oxford University Press.
- 4. Parvinder S Bali (2014), Food Production Operations, Oxford University Press.
- Bobby George and Sandeep Chatterjee (2008), Food and Beverage Srevice and Management, Jaico publishing house, Mumbai.
- Jagmohan Negi (2013), Food and Beverage Service Operation, S Chand and Company Pvt Ltd, New Delhi.
- 7. Jagmohan Negi (1997), Professional Hotel Management, S Chand and

Company Pvt Ltd, New Delhi.

 John Cousins, Dennis Lillicrap, Suzanne Weekes (2014), Food and Beverage Service, 9<sup>th</sup> ed., Hachette UK.

# UNIVERSITY OF KERALA. M.Sc HOME SCIENCE - SEMESTER SYSTEM (2021 Admission) BRANCH X B — FAMILY RESOURCE MANAGEMANT Semester I HS 214 B/C/D PAPER IV - RESEARCH METHODOLOGY (Common to Branches X B, C, D)

Total Hrs 110 hours

# Learning Objectives:

- 1. To have a basic knowledge about research and its methodologies
- 2. To identify and define appropriate research problems
- 3. To organize and conduct research in a more appropriate manner
- 4. To understand various steps in writing a research report, thesis research proposal

#### **Course Outcomes:**

CO1: To identify appropriate research problems and methodologies

CO2: To construct a research design and to formulate research reports

**CO3**: To recognize the ethics in Home science research

## Unit I: Research Methodology, Research Problem

Research Methodology-Meaning, objectives and significance of research. Types of research, Research process and criteria of good research.

Research Problem- Selection of research problem, justification, Research gap,Development of hypothesis and its significance, hypothesis testing, Variables – types and characteristics.

# **Unit II: Review of literature**

Functions, sources, steps in carrying out a literature review; types of review-Narrative, systematic, metanalysis, developing searching strategies, use of bibliographic databases, free reference management software- Mendeley, Zotero

#### Unit III: Research design

Meaning and needs, features of a good design; Important concepts relating to research design; Different research designs - Descriptive studies (correlation, case studies, cross-sectional surveys) – Analytical studies, Observational, case-control, cohort studies – prospective and retrospective, Experimental studies (clinical / intervention trials including randomized controlled trials) Pilot studies.

#### Unit IV: Methods and tools of Data Collection-

Interview, Case study, Survey, Scaling methods, Schedules and questionnaires, Reliability and validity of measuring instruments.

## Unit V: Sampling design

Population and sample, Steps in sampling design, Criteria for selecting a sampling procedure, Different types of sampling techniques- probability sampling and non-probability sampling. Merits and demerits of sampling.

## Unit VI: Ethics in Research in Home Science and Scientific Writing

Ethical issues in human studies. Information fact sheet, Informed consent of participant, Ethics in Academic writing- Plagiarism and tools

Scientific Writing-Different forms – research articles / notes, review articles, monographs, dissertations and reports. Components of dissertation / research report / article. Importance of illustrations. Methods of presenting research findings – oral / poster. Formulation of research design / proposal

#### References

- Best J M and Kahn, J.V. Research in education, 10<sup>th</sup>edition, Prentice Hall of India, New Delhi, 2006
- Devadas, R.P. A Handbook on methodology of research. Sri Ramakrishna Vidyalaya, Coimbatore, 1989
- Gosh B.N. Scientific methods and social research. 4<sup>th</sup> edition, Sterling Publishers Pvt. Ltd. New Delhi, 2012
- Kothari, C. R. Research Methodology methods and techniques, 3<sup>rd</sup> edition, New age International Publishers, New Delhi, 2014
- Kulbir Singh, Sidhu. Methodology of Research in Education, Sterling Publishers Pvt.Ltd. New Delhi,
- Sharma, B.A. V, Prasad, R.D. and Satyanarayana, P. Research methods in Social Science, Sterling Publishers Pvt. Ltd.,
- Wilkinson, T.S and Bhandarkar, P.L. Methodology and Techniques of Social Research, Himalaya Publishing House, Bombay.

# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 ADMISSION ONWARDS) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER-II HS221B PAPER-V HOSPITALITYMANAGEMENT (Internship) SYLLABUS

# **Objectives:**

To enable students

- Gain insight into aspects of hospitality for guest satisfaction.
- Impart knowledge on the organizational and procedural aspects of front office and housekeeping departments of various hospitality institutions.
- <sup>□</sup> To accomplish effective communication etiquettes and manners in dealing with guests, colleagues and management.

# **Course Outcome:**

**CO 1**:To have practical experience on check in , check out procedures and other duties of front office staff.

CO2: To gain insight into aspects of hospitality for guest satisfaction.

CO 3: To have practical experience in the various duties of housekeeping staff.

One-and-a-half-month internship in front office and housekeeping department in any institution and produce a report on the personal experience in the role play of guest handling, Bed making, Table setting, Flower Arrangement, Curtain styles

# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 ADMISSION ONWARDS) BRANCH XB-FAMILY RESOURCEMANAGEMANT SEMESTER-II HS222B PAPER-VI- ADVANCED LANDSCAPE DESIGNING (Theory) SYLLABUS

#### **Total hours: 110**

#### **Objectives:**

To enable the students

1. To gain knowledge on landscape gardening.

2. To acquire skills in cultivation of different garden plants.

#### **Course Outcome:**

**CO 1**:To Understand the components of landscaping. CO2:To know about the styles and types of garden. **CO2**:To gain insight into garden preparation and care of garden.

**CO3**: To create an idea about plant propagation, bonsai & topiary, lawn making and ornamental plants.

# **UNIT I: Landscaping**

Meaning and importance of landscaping, elements and principles. Components of landscaping – Hardscaping – definition, elements of hardscaping - walkways, driveways, patios, decks, pergolas, swimming pools, fountains, stone benches, sheds, gazebos, pergolas, arbors, trellises and gates.

Soft scaping – definition, components of soft scaping - soil, trees, hedges, ground covers, flowers, and shrubs. Sustainable gardening – definition and methods - reducing lawn size, conserving & controlling water on site, organic pest control, composting and mulching, using native plants, plant perennials.

# **UNIT II: Care of the Garden**

Watering and fertilizer use – water needs, how and when to water plants, different methods of irrigation. Application of fertilizer, organic fertilizer, biofertilizer. After care of the plants – weeding, top dressing, staking, disbudding, defoliation, defruiting, pruning and shaping.

# **UNIT-III: Garden Preparation**

Soil and its preparation- physical texture and composition, soil types, soil pH, preparation of beds. Organic manures and substrates- farmyard manure, compost, leaf mould, bone meal, oil cakes, wood ash charcoal, liquid manures, peat moss, shredded bark, saw dust and wood shavings, vermicompost.

Potting, repotting and transplantation – plants suitable for pot culture, potting on different kinds of pots. Transplanting seedlings, corns, bulbs, large trees. Garden tools and implements. Routine duties in a garden.

# **UNIT IV: Types of Garden and Lawn Making**

Types of garden – rock garden, water garden, butterfly garden, vertical garden, terrace garden , kitchen garden, indoor garden and terrarium

Lawn making-Site and soil, drainage, leveling, lawns from seeds, turf and chopping. Mowing, top dressing and weeding.

## **UNIT V: Plant Propagation**

Types – Seed propagation - advantages. Vegetative / as exual propagation – advantages, methods - Cuttings – stem leaf and root. Layering – tip, simple, compound, mound and air layering. Budding – T- budding, chip budding, patch budding. Grafting – cleft graft, bark graft, whip graft, inarch graft, approach graft, side graft and bridge graft. Tissue culture.

# **UNIT VI: Bonsai**, Topiary and Arboriculture

Bonsai- principle, Containers for bonsai – choosing pots, training pots, potting and repotting and growth media. Basic styles – formal upright, informal upright, slanting, cascade and semi cascade. Shaping bonsai – pruning, nipping and wiring

Topiary – definition, plants suitable for topiary, care - watering, feeding, pest control and clipping

Arboriculture, importance and value of trees, selection, planting, maintenance and care, role of trees in landscaping.

## **Related Experience**

Collection of pictures/photographs of different types of garden, propagation methods, bonsai and topiary.

Prepare the layout of a small/medium/large garden suitable for residential building.

Preparation of a terrarium.

Visit to nurseries.

Visit to a residence and an institution to observe the landscaping and evaluate it on the basis of principles of design.

#### Record.

## Reference

- Richard . N. Arteca , 2015, Introduction to Horticultural Science, Cengage learning.
- Pat Lucke Morris and Sigrun Wolff Saphire, 2011, Growing Bonsai Indoors, Brooklyn Botanic Garden.
- JennyHendy,2015,Topiary:APracticalGuidetotheArtofClipping ,Training and Shaping Plants, Anness Publishing.
- Nina Greene, 2014, Garden Styles: Introduction to 25 Garden Styles, Speedy publishing LLC.
- Marietta Loehrlein, 2014, Sustainable Landscaping: Principles and Practices, Taylor and Francis Group, LLC.
- o V.L. Sheela, 2011, Horticulture, MJP Publishers, Chennai.
- o Deena Beverley, 2004, Practical Gardening, Paragonbook, UK
- K. Manibhushan Rao, 2005, Textbook of Horticulture, Mac Millan India Ltd, New Delhi.

# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 ADMISSION ONWARDS) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER-II HS223B PAPER-VII HOUSING AND INTERIOR DESIGNING (Theory)SYLLABUS

# **Total hours: 110**

#### **Objectives: -**

To help students to:

- 1. Learn aesthetic skills in applying principles of Interior Decoration
- 2. Apply practical knowledge and skill in treating home decoration and commercial centres.
- 3. Become a good Interior Designer

#### **Couse outcomes:**

CO1: To interpolate the concepts of life space planning

- **CO2**: To understand about the types of design, elements and principles of design and colour concepts.
- CO3: To identify the various building materials available- its merits and demerits
- **CO4** : To analyse about the space saving techniques, home lighting and accessories in interiors.
- CO 5 : To understand about the Architecture.

# **UNIT I: Planning and designing interior space**

**F**actors and goals in planning, creating and classification of life space – group space, private space and support spaces. Planning space and designing interior space-Objectives, process, schematic diagram, principles of house planning. Low cost design materials and techniques.

Types of plans- house plans for different income groups, Residential architectural design for various life styles and Housing typology - independent, twin / row/ pent houses, apartments / flats, studio apartments, villas, condominiums, vernacular and traditional domestic architecture

# **History of Housing and Architecture**

Fundamentals of architecture and overview of ancient architecture -Egyptian, Greek, Roman, Gothic, Renaissance, Modern and Contemporary Architecture. Indian- Hindu, Jain, Buddhist, Mughal, Colonial, Study of Domestic Architecture –Introduction to Vaastu.

# **UNIT II: Design Fundamentals**

Importance of good taste. Definition and classification of design **Design types**– i) structural (functional) ii) ornamental (decorative) – Naturalistic, stylized, Geometrical, Historical, Traditional, Modern, and Abstract; **Elements of design**- line, form, colour, texture, light, space. **Principles of design**- balance, rhythm, proportion, harmony and emphasis.; **Study of colour in** detail: Introduction Characteristics of colours, Colour systems 2D and 3D – Prang's, Munsell's and Ostwald – Colour harmonies, psychological effect of colours and its use in interior. Application of design principles in interiors.

## **UNIT III: Fundamentals of Building construction and Materials**

Basic construction Techniques, Building Components / Elements – Foundation, wall, floor, ceiling, roof, structural openings, means of vertical transport.

Materials for interior use, properties, care and cost. Wood and wood substitutes, wall finishes, floor finishes, materials for ceiling and false ceiling .

# **UNIT IV: Environmental factors and home lighting**

Home lighting - types of lighting, adequacy of lighting in various area, sustainable lighting.

# **UNIT V: Accessories in Interior**

Definition, classification, selection and placement of accessories -pictures, sculptures, antiques, indoor plants and flower arrangements.

# **UNIT VI: Space Saving Techniques**

Need for saving indoor space, technique such as combination/multipurpose rooms, combination/multipurpose furniture, in-built furniture, techniques of creating illusion .

## References

- 1. Bayer Glenn-A Factual Analysis
- 2. Agan Tessie-The House- Its Plan and Use
- 3.Deshpande, R.D. Modern Ideal Homes for India.
- 4. Current Journal and Magazines
- 5. National Building Organisation Publication.

6.CenusReport

- 7. India Year Book
- 8. Report of National Sample Surveys.

9. Khanna P.N Indian Practical Civil Engineers Hand Book, Engineers Publications (1985)

10. Modak, N.V and Ambedkar, V.N 1971. Town Country, Planning and Housing Orient Longman Company.

11. Venugopal K Engineering Drawing Made Easy. Wiley Eastern Co.1992.

12. RanwalaS.C Engineering Materials (Material Science) Charotar Publishing House.

- 13.Kasu.A Interior design, Ashis Book Centre, Mumbai
- 14. Khanna.G Art of Interior Design, Indica Publishers, Delhi.

15. Craig H.T and Rush C.D , Homes with Character, DC Health and Company, Boston.

16. Goldstein H and Goldstein V,Art In Every Day Life, Macmillan Company New York.

17. Punmia B.C (1993)Building Construction ,Laxmi Publications, New Delhi.

# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 ADMISSION ONWARDS) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER-II HS224B PAPER -VIII - HOUSING AND INTERIOR DESIGNING (Practical) SYLLABUS

Total Hours:120

# **Objectives: -**

To help students to:

- 1. Learn aesthetic skills in applying principles of Interior Decoration
- 2. Apply practical knowledge and skill in treating home decoration and commercial centres.

3.Become a good Interior Designer

## **Course Outcome**

CO1:To explore about the various building materials available in the market.

- CO2: To gain practical knowledge in interior designing.
- CO3: To design multi purpose furniture as well as usage of proper colours in different rooms.

# 1. Types of house plans

a) Low income group b) Middle income group c) High income group d) Apartment (one room)

# 2. Kitchen Arrangement

a) U-Shaped b)L-shaped c)Two wall or corridor Kitchen d)One wall or Gallery Kitchen e)Island Kitchen f) Pennisula Kitchen

# 3. Colour

- a) Prang colour system b) Munsell colour system c)Value and intensity
- d) Pastel colours
- e) Neutral colours f)Warm and cool colours g)Rainbow colours
- h) Colour harmonies\_Monochromatic ,Analogous, Direct complementary, Double complementary SplitComplementary, Alternate Complementary, triads, tetrads

# 4. Storage Areas of Various Room

a)Kitchen	b)Bed room	c)Drawing room	d)Dining room
/	,	, 0	, 0

# 5. Furniture Arrangement of Different Rooms

	1.Bed room	2.Dinningroom	3. Drawing room	4.Kidsroom
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5. Study cum bedroom for a college girl /boy.

# 6. Identification and collection of:-

a) Building materials b)Draftsmanship tools c)Plumbing Fixtures) Electrical Fixtures e) Latest building materials.

# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 ADMISSION ONWARDS) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER -III HS231B PAPERIX -CONSUMERISM (Theory)Syllabus

#### **Total hours: 110**

## Objectives

To enlighten students about the duties and responsibilities of a wise consumer

To provide a firm grounding in consumer behaviour

To impart knowledge on consumer acts and regulations.

## **Course outcomes**

**CO1**: To identify the role of consumers in economy.

- **CO2**: To know about the consumer problems, consumer co-operatives and consumer acts.
- CO3: To examine the importance of consumer education
- CO4: To understand about adulteration hazards and its detection.
- **CO5**: To recognise the classification, objectives and importance of advertisement

# **UNIT I: Consumer Behaviour**

Consumer- definition and classification. Consumer behaviour – meaning, features, and factors influencing consumer behaviour. Steps in buying decision process .Buying motives- definition and types.

# **UNIT II: Consumer problems & Consumer Protection Acts**

Meaning and definition of consumer behaviour. Nature and characteristics of Indian consumers. Consumer problems and causes. Consumer redressal forum , structure and its functions.

Consumer protection- importance, scope of laws in consumer protection. Consumer Protection Acts1986, Standard institutions - BIS, AGMARK, ISO.

# UNIT III: Consumer co-operatives & Public utilities and services

Structure and functions of consumer co-operatives.

Role and functions of public utilities and services

# **UNIT IV: Adulteration**

Definition, types, methods adopted for adulteration, detection methods, health hazards of adulteration, measures to control adulteration.

Consumer Protection Acts1986, Standard institutions - BIS, AGMARK, ISO.

# **UNIT V:**

Advertisement: Definition and objectives

## **Classification of advertisement**

1. **Classification based on function** –Informative advertisement, persuasive advertisement and reminder advertisement.

2. Classification based on product- Pioneering advertisement, Competitive

advertisement and retentive advertisement.

3. **Classification based on region**- Global advertisement, National advertisement, Regional advertisement and local advertisement.

4. **Classification based on desired response** – direct action advertisement, indirect action advertisement and surrogate advertisement.

5. **Classification based on target market**- Consumer product advertisement, industrial product advertisement, trade advertisement (retail and whole sale advertisement) and Professional advertisement.

# **Methods of Advertisement**

**1.**Online advertisement

2.Mobile advertisement

3.Print advertisement

4. Broadcast advertisement

5.Outdoor advertisement

# **UNIT VI: Consumer Education**

Need and significance, objectives of consumer education, consumer rights. Consumer aids – standardization and labels, trademarks, brand names, patents, warranty, guarantee and after sale service.

#### References

1. Consumer behaviour, Suja Nair, 2002, Sultan Chand and sons, New Delhi.

2. Consumerism a growing concept, , Sethi.M, Seetharaman .P 1994.Phoenix publishers, New Delhi.

3. Consumer behaviour, Sharma.S.S, 1992, Arihant Publishing.

# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 Admission Onwards) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER III HS232B PAPERX -ERGONOMICS (Theory) SYLLABUS

#### **Total hours: 110**

## Objectives

- 1. To make students aware of the role of ergonomics in improving work efficiency
- 2. To make them understand the importance of adopting good work postures
- 3. To understand the ergonomical considerations in the designing of workspaces
- 4. To understand the relation of work environment and performance of work

# **Course outcomes**

- **CO1**:To know the importance of time and motion studies and scope of ergonomics in modern society.
- CO2: To examine the basic principles for work station design.
- CO3: To recognise the anthropometry and its application
- CO 4: To design work environment.

#### **UNIT I: Introduction to Ergonomics**

Meaning, importance and basic ergonomic principles, Scope of ergonomics in modern society, Man-Machine-Environment system interactions, Proactive ergonomics.

# **UNIT II: Physiology of Work and Motion and Time Study**

Structure and function of muscles, Physiology of muscular work, Energy for muscle action, Efficiency of muscle contraction, limiting factors on muscular contraction, physical work capacity and factors affecting physical work capacity. Static and dynamic muscular work, muscular strength and endurance , Assessment of muscular strength and endurance, Benefits of muscular strength and endurance. Workload , Classification of workload, Muscular work in occupational activities– heavy dynamic muscular work, manual materials handling, static muscular work, repetitive work, Acceptable workload in occupational activities, Prevention of muscular overload. Mental workload, factors affecting mental workload, measuring mental workload. Definition and Principles of motion economy.

#### UNIT III: Body Postures and Musculo Skeletal Disorders (MSDs)

Common postures at work -standing, sitting, reaching, moving, Factors that influence working posture – user characteristics, task requirements and design of the workspace, Effect of wrong postures on cardiovascular and musculoskeletal system, Suggestive techniques of / guidelines for safe body postures at work, Assessment of work postures using Rapid Upper Limb Assessment(RULA) tool and Rapid Entire Body Assessment (REBA) tool, Work-related MSDs – definition, causes, types and their prevention.

#### **UNIT IV: Anthropometry and its Applications**

Definition of anthropometry and anthropometric variables /measurements, Percentile humans, Types of anthropometric data used in ergonomics - Structural, Functional and Newtonian, Techniques for measuring body dimensions –Direct method and indirect method, Standing measurements and sitting measurements, Applications of anthropometry.

## **UNIT V: Application of Ergonomic Principles**

Ergonomic principles basic to hand tool design, Ergonomic design considerations for kitchen and Ergonomic Computer workstation set up. Universal Design Considerations -Wheelchairs, Crutches, canes and walkers, Knobs, handles and controls, Access ramps and stairs.

#### **UNITVI: Work Environment**

Effect of hot and cold environments on work performance. Control of exposure to / protection against heat and cold, Effect of noise on work performance, Methods to reduce noise, Effect of light on work performance, Effect of colour on work performance, Effect of furniture on work performance.

## **Reference**

- 1. Stephen Pheasant (2003),Body space, Anthropometry, Ergonomics and the Design of Work, Taylor& Francis Ltd,London.
- 2. Grandjean E(1985), Fitting the task to man An ergonomic Approach, Taylor and Francis, London.

- 3. www.ilocis.org
- 4. Barnes R M, Motion and time study, John Wiley & Sons.
- 5. Nag P K, Ergonomics and work design, New Age International Pvt Ltd, New Delhi
- Varghese M A, Saha P N and Atreya N (2000), Ergonomics of women at work, Allied Publishers Ltd, Mumbai.
- 7. R S Bridger, Introduction to Ergonomics, Taylor and Francis, London.

# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 Admission Onwards) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER III HS233B PAPER-XI -ENTERPRENEURSHIP DEVELOPMENT (Theory) SYLLABUS

Total hours: 110

## **Objectives:** - To enable the students to:

- 1. Understand the nature of entrepreneurial activities
- 2. Seek self employment ventures
- 3. To impart information on the various sources of finance and also on the process of setting up small enterprise.
- 4. Acquire skills in planning project proposals.

#### **Course outcomes**

- CO1: To recognize characteristic and importance of entrepreneurship
- CO2: To ascertain the need for training and methods of building entrepreneurship.
- **CO3**: To know about the challenges of women entrepreneurs and the institutional support for start ups.
- **CO4**: To identify the different small scale industries and also to identify the need

significance and objectives of project formulation.

# **UNIT I: Entrepreneurship**

Entrepreneurship – Definition, Types, Characteristics and Importance. Factors stimulating Entrepreneurship. Factors affecting entrepreneurial growth - economic, social, cultural and personal. Theories of Entrepreneurial origin. Qualities of Entrepreneurs. Importance of Self-employment.

# **UNIT II: Training for Development and Methods of building Entrepreneurship.**

Need for training. Phases of EDP. Development of Achievement motivation, Projective techniques. Self-rating exercises.

# **UNIT III: Women Entrepreneur**

Concept, Importance, Challenges of women entrepreneurs. Means of overcoming challenges of women entrepreneurs. Suggestions for development of women entrepreneurs.

# **UNIT IV: Entrepreneurship and Institutional Support**

Objectives, functions and assistance given by-SIDCO, SIDO ,IDBI ,SIDBI ,SGSY ,JGSY Agencies promoting Entrepreneurship and role of NSIC, SIETI, CSIO ,DIC, DRDA and other voluntary agencies.

# **UNITV: Organizations**

Meaning and Definition of organizations. Types of organization-Sole proprietorship, partnership, joint stock company ,State enterprises and Co-operative societies – meaning, merits and demerits of each. Factors influencing the choice of organisation. Small Scale Industry- Definition, type, procedure for setting a small scale unit. Training facilities for small scale units.

# **UNIT VI: Project Formulation**

Meaning, Concept, Significance, Objective, Elements, Classification, Identification, Constraints-Internal and External, and Feasibility Analysis

**Book Keeping and Accounting:** Concepts and basics of accounting methods-Journal and ledger, balancing, trial balance, cash book. How to calculate and procedures for payment

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- o Shukla M.C., Business Organisation, S. Chand & Co. New Delhi, (1970)
- Winze, M.D. (1987). Women Entrepreneurs in India, New Delhi, Mital Publications

#### **Periodicals:**

Yojana, Publication Division, New Delhi

# UNIVERSITY OF KERALA. M.Sc HOME SCIENCE - SEMESTER SYSTEM (2021 Admission) BRANCH X B- FAMILY RESOURCE MANAGEMENT Semester III HS 234 B/C/D/E PAPER XII - STATISTICS AND COMPUTER APPLICATIONS (Common to Branch X- B, C, D & E)

Total 120 hrs

#### **Learning Objectives:**

- 1. To enable the students to develop knowledge in statistical tools and computer applications.
- 2. To demonstrate the understanding of descriptive statistics by practical application of quantitative reasoning and data visualization
- 3. To distinguish between Karl Pearson's coefficient of correlation and Spearman's rank correlation coefficient.
- 4. To understand the meaning of correlation, regression and demonstrate the use of correlation and regression analysis for estimation and prediction purposes.
- 5. To demonstrate the concept of association of attributes and to derive criteria for the independence of attributes.
- 6. To discuss and demonstrate the use of various tests of significance for attributes, variables and draw inferences based on one or more population.
- 7. To develop the practical skill of students in using software so as to equip them with to classify, organise, analyse and draw inferences to various problems arising in different fields.

# **Course Outcomes:**

- CO1: To identify popular concepts in data management and statistical analysis
- **CO2**: To calculate measure of central tendency and dispersion
- CO3: To compute large and small sample test and interpretations
- CO4: To estimate parametric and nonparametric tests in data analysis
- CO5: To apply excel and SPSS in data analysis

# Unit I- Part A: Introduction to Statistics (Topics for general awareness in Statistics which are not intended for Examination purpose)

• Introduction to Statistics - Definition, importance and scope of statistics, limitations of statistics, distrust of statistics, Divisions of statistics- Descriptive and Inferential statistics.

#### Unit I- Part B: and Data Management

- Raw data, ungrouped frequency distribution, grouped frequency distribution, relative frequency table, cumulative frequency tables, how to convert raw data to the form of a frequency distribution, the information that can be obtained from a frequency table, merits and demerits of a grouped frequency table. Graphs: histogram, frequency polygon, frequency curve, ogives.
- Scales of measurement-nominal, ordinal, interval and ratio scales. Coding of data.

# Unit II: Measures of central tendency and dispersion

- Measures of central tendency- Definition, arithmetic mean-: simple and weighted arithmetic mean, median, mode, geometric mean, mid-range and its uses, merits and demerits.
- Partition values quartiles and percentiles.
- Measures of dispersion –Definition, Absolute and relative measures of dispersion: range, variance, standard deviation, standard error, coefficient of variation.

# **Unit III: Normal Distribution and its applications**

- Probability- classical approach, random variable- discrete and continuous random variables, probability mass function and probability density function (Definition and examples only).
- Normal random variable, characteristics and properties of a normal curve, standard normal distribution, converting raw scores into standard normalized scores, standard normal curve, making use of standard normal tables.
- Examples of applications of the normal curve.

# Unit IV: Correlation, Regression and Association of Attributes

- Linear correlation- meaning and types of correlation, scatter diagram, Karl Pearson's coefficient of correlation, Spearman's Rank correlation coefficient (Definition and problems only. No derivation), coefficient of alienation, interpretation of correlation coefficient.
- Linear Regression and Prediction: Concept of regression lines and regression equations, use of regression lines, role of coefficient of alienation in prediction.
- Association of Attributes Introduction, notation, dichotomy, classes and class frequencies, consistency of data, independence of attributes, association of attributes-

Yule's coefficient of association, coefficient of colligation.

# **Unit V: Testing of Hypotheses**

- Definition, Hypothesis, concepts of statistical hypothesis-simple and composite, null hypothesis, alternative hypothesis, test of a statistical hypothesis, critical region, Type I error, Type II error, significance level, power of the test. Parametric and non-parametric tests (Definition and examples only).
- Parametric test- Testing of hypothesis concerning the mean of a population, testing the equality of means of two populations, testing the hypothesis that proportion has a specified value, testing the equality of proportions of two populations, chi-square test, F test, ANOVA concepts, ANOVA-single factor.
- Non parametric chi-square test- testing goodness of fit, independence of attributes, homogeneity of proportions.

# Unit VI: Presentation using Power point, Statistical Analysis using Excel and

# **Introduction to SPSS**

- Basics for creating a power point presentation.
- Basics in Excel, statistical analysis using excel based on modules I, II, III, IV and V.
- Introduction to SPSS, Presentation of data, Histogram, pie diagram, scatter diagram graphs using SPSS.

# References

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- 2. Agarwal, Y. P. (1986). *Statistical methods' concepts, applications and computations,* Sterling publishers (pvt) Ltd. New Delhi.
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- 14. Landau, S. (2019). A handbook of statistical analyses using SPSS. Chapman & Hall.
- Mills, W. R. (2010). Microsoft Office 2007 Power Point: A Training Book for Microsoft PowerPoint 2007. AuthorHouse.
- 16. Nagar, A. L., & Das, R. K. (1997). Basic statistics. 2nd ed., OUP, Delhi, 1997.
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- 18. Norat, M. A. A Handbook of Statistical Analyses using SPSS.
- 19. Pandey, P., & Pandey, M. (2015). Research methodology: Tools and techniques.
- Sharma, B. A. V. (Ed.). (1983). Research methods in social sciences. Sterling Publishers.
- 21. Shelly, G., & Sebok, S. (2010). *Microsoft PowerPoint 2010: Complete*. Nelson Education.
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# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 Admission Onwards) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER -IV HS241B PAPER XIII - FURNITURE AND FURNISHINGS (Theory) SYLLABUS

#### Total hours: 110

# **OBJECTIVES:**

1. To enable the students to learn about the types and importance of furniture

2. To know about the selection, care and arrangement of furniture.

3. To enable the students to learn about types of windows and window treatments

4. 4. To understand the role of fabric in interior decoration

5. Develop skills in designing and construction of curtains.

#### **Course outcomes**

CO1: To know about the history of furniture and its classification.

CO2: To identify the guidelines for the selection and arrangement of furniture.

CO3: To familiarize with the furniture material and finishes.

CO4: To explore the soft furnishings as well as the types of furnishings and designs.

# **UNIT II: Guidelines for Selection and arrangement of furniture**

Types –dual purpose, built-in, modular furniture, mobile furniture, molded furniture. Furniture requirements for various rooms –Living room, dining room, bedroom, kitchen, study room, office.

# **UNIT-III: Furniture materials and Finishes**

Materials-Wood (teak, rose wood, walnut, cedar, mahogany, pine, birch, sal, ply wood, bamboo, cane,) metals, plastics, leathers.

Finishes- coats of oil, wax, lacquer or paint. Construction features of furniture – fittings and other components, shaping, carving, turning, fluting, reeding, joining and finishes, upholstering.

#### UNIT -IV :

Wooden furniture, wicker and cane, metal furniture, plastic,

upholstered furniture, wood finishes and furniture polishes.

## **UNIT-V: Soft furnishings, Window Treatments, Care and maintenance**

Soft furnishing -Meaning, Importance, Classification- functional and decorative. Selection criteria in relation to background in walls, floors and ceilings.

Factors influencing furnishing of interior space- Climate, family needs and preferences, materials available, design, principles, financial limits.

Types of windows, Types of curtains and draperies, factors in the selection of curtains and draperies, hanging curtains, pelmets, swags and valances, accessories ,blinds, shades, curtain rods ,selection of fabrics.

Soft furnishings – stain removal, mending and darning, laundering, storage of furnishings

# **UNIT-VI: Types of furnishings**

Cushion, Cushion Covers, Slip Covers, Bed Linens, Table linens, Bath Linen, And Kitchen Linen.

Floor coverings- Carpets and rugs – types, selection, laying.

# **REFERENCES:**

- 1. Philips B, (2000), Hamlyn book of decorating, octopus publishing Ltd, London.
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# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 Admission Onwards) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER -IV HS242B PAPER-XIV - ENERGY AND ENVIRONMENT (Theory) SYLLABUS

**Total hours: 110** 

#### **Objectives**

To acquaint the students with

1. The physical environment and its components.

2. The need for energy conservation.

3. The action needed for checking environmental threats.

#### **Course outcomes**

CO1: To identify the dimensions of environment.

**CO2:** To explore the energy sources, both renewable and non- renewable.

CO3: To implement the action needed for checking environmental threats.

## **UNIT I: Introduction to Energy and Environment**

Meaning and definition of energy and environment. Scope of the subject. Dimensions of environment. Sources of energy- renewable and non-renewable. Classification. Advantages and disadvantages of fossil fuels, wind energy, tidal energy, geothermal energy, hydel energy and nuclear energy.

## **UNIT II: Solar Energy**

Significance. Solar radiation. Solar collectors. Solar energy applications- Solar cooker, solar water heater, solar photovolatic cell. Advantages and limitations of solar energy.

## **UNIT III: Biomass Energy**

Classification/Types of biomass. Biomass conversion process. Biogas generation. Factors affecting bio digestion. Classification/Types of biogas plants. Advantages and Limitations of biogas plants.

# **UNIT IV: Land Pollution**

Land as a resource, Land pollution sources, Major health hazards, Waste management – classification of waste, characteristics, importance of waste management program, methods of solid waste disposal, methods of liquid waste treatment and disposal.

# **UNIT V: Air and Water Pollution**

Air pollutants, Sources, Health hazards. Greenhouse effect, acid rain and ozone layer depletion- causes, effects and control measures.

Water as a resource. Water pollution- sources and pollutants. Health hazards. Water management- ways of augmenting water resources - rain water harvesting, irrigation- drip and sprinkler methods. Water purification techniques, Water quality and standards.

# **UNIT VI: Environmental Protection**

Need, Environmental Protection programs, laws and social movements.

#### References

1. Jadhav .H. V (1977), Energy and Environment ,Himalaya Publishers, Mumbai.

2. Pawar.S.N and Patil, R.B(1998)Sociology of Environment, Rawat Publisher, Jaipur.

- Karpagam,M(1993),Environmental Economics :A Text book, Sterling Publishers, NewDelhi.
- 4. Varshney, C.K. Water Pollution and Management(1983)
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- Ghanta R and Rao, B.D : Environmental Education Problems and Prospects, NewDelhi, (1998)

7. Mark L Brusseau, Ian L Pepper, Chrales Gerba (2019), Environmental and Pollution Science, 3rd ed., Academic Press.

8. V K Ahluwalia(2015), Environmental Pollution and Health, The Energy and Resources Institute(TERI).

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# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 Admission Onwards) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER-IV HS243B PAPER- XV APPLIED NUTRITION AND EXTENSION (Theory) SYLLABUS

#### Total hours:110

# Objectives

1. To understand about the prevalence and extend of malnutrition inIndia.

2. To know the different ways to assess the nutritional status of the community.

3. To equip with the knowledge of planning and conduction nutrition education programmes.

# **Course Outcomes**

- CO1: To implement the nutrition educational programmes for the community
- CO2: To compute low cost balanced diets
- **CO3**: To assess the nutritional problem of the community.
- CO4 : To know about the causes and prevention of deficiency diseases,

#### **Unit I: Malnutrition**

Definition and types of malnutrition. Factors responsible for malnutrition and measures to overcome it. Application of basic principles of nutrition to improve the dietary practices of communities. Methods of enhancing nutritive value of foods - Combination, Fermentation and Germination.

#### Unit II: Nutritional Problems of the Community

Methods for assessing nutritional problems of the community. Nutrition and health statistics. Food Security.

#### **Unit III: Nutrition Education**

Significance of Nutrition education. Principles of planning executing and evaluating nutrition education programmes.

# Unit IV: Role of International Organisations and National Organisations/ institutes to combat malnutrition

International organizations- FAO, WHO, UNICEF, AFPRO, IRRI, CARE.

National orgnisations/institutes- ICAR, ICMR, CSWB, NIN, CFTRI, CTCRI.

#### Unit V : Role of Nutrition Intervention programmes to combat malnutrition

Nutrition Intervention Programmes-Mid Day Meal Programmes, Special Nutrition Programmes, Integrated Child Development Services, National Nutritional Anaemia Prophylaxis Programme, National Iodine Deficiency Disorders Control Programme and National Vitamin A Prophylaxis Programme.

#### **Unit VI: Food adulteration**

Definition, types and contributing factors. Food adulterants and test to detect them Health hazards of food adulteration . FSSAI

## **References:-**

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# UNIVERSITY OF KERALA M.Sc. HOME SCIENCE-SEMESTER SYSTEM (2021 Admission Onwards) BRANCH XB-FAMILY RESOURCE MANAGEMANT SEMESTER-IV HS244 B PAPER- XV WOMEN'SSTUDIES (THEORY) SYLLABUS

Total hours :110

#### **Objectives**

1. To create an awareness among the students about the status of women in India.

2. To familiarize with the issues and problems of women

3. To motivate students to work for the betterment of women

## **Course outcomes**

CO1: To create awareness about the status of women in India.

CO2: To explore the special issues and problems faced by women and girl children.

CO3: To assess the developmental programmes for women.

CO4 : To know about women and law.

## **UNIT I: Introduction**

Concept and Significance of Women's Studies. Scope of Women's Studies. Women's Studies as an academic discipline. Women's Movements- Pre - independent, Post independent and Current women movements. Need for empowerment of women.

#### UNIT II: Status of women in India

Demographic profile of women with reference to health, education, employment, social and political aspects. Gender bias. The Indian girl child. The changing role of women.

## **UNIT III: Special Issues and Problems**

Infanticide, Foeticide, Dowry, Domestic violence, Sexual harassment and abuse, Child Marriage, Portrayal of women in mass media. Women in distress: Single, Widowed, and Divorced women, Unmarried mothers. Maternal and reproductive health issues.

# **UNIT IV: Women in workforce**

Concept of work - Productive and non - productive work. Women in organized and unorganized sectors. Special problems and needs. Micro enterprises and women entrepreneurship development. NGOs and women development. Role of SHGs.

# **UNIT V: Women and Law**

Indian constitution and provisions relating to women. Need for legal literacy, Laws pertaining to Marriage, Divorce, Dowry, Succession/Property rights, Sexual abuse, Immoral Traffic, and Abortion, Indecent Representation of Women Act 1986, Family courts, Enforcement machinery – Police and Judiciary. Human Rights - Womens Rights.

# **UNIT VI: Programmes for Women**

Services for protection, care and rehabilitation, Poverty alleviation and economic empowerment, Nutrition and health care programmes, Education and legal literacy. National and State Commissions for women.

# References

Ashok S Kolaskaer and Motilal Dash (2012), Women and Society ;The road to change Oxford University press.

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