Detail Syllabus of Ph. D. Entrance exam General Home Science

Course Code: CFG101  
Course Category: Multi-Disciplinary

Course Title: RESEARCH METHODS

Credit: 04  
Contact hour/week=04

Objectives

- To understand the significance of statistics and research methodology in Home Science research
- To understand the types, tools and methods of research and develop the ability to construct data gathering instruments appropriate to the research design.
- To understand and apply the appropriate statistical techniques for the measurement scale and design.

Contents:

1. Science, Scientific Methods, Scientific approach
2. Role of Statistics and research in Home Science discipline.
   Objectives of research: Explanation, control and prediction.
3. Types of Research: Historical, descriptive, experimental, case study, social research, participatory research.
4. Definition and Identification of a Research Problem
   - Selection of research problem
   - Justification
     - Theory, hypothesis, basic assumptions, limitations and delimitations of the problem.
5. Types of variables
6. Theory of probability
   - Population and sample
   - Probability sampling: simple random, systematic random sampling, two stage and multi stage sampling, cluster sampling


• Non-probability sampling: Purposive, quota and volunteer sampling / snowball sampling.

7. Basic Principles of Research Design
• Purposes of research design: Fundamental, applied and action, exploratory and descriptive, experimental, survey and case study, ex-post facto.
• Longitudinal and cross sectional, co-relational.

8. Data Gathering Instruments:
• Observation, questionnaire, interview, scaling methods, case study, home visits, reliability and validity of measuring instruments.

References:
Course Code: GH102 Course Category: Core

Course Title: EXTENSION MANAGEMENT

Credit: 04 Contact hour/week=04

Objectives
To unable students to:

- Understand the concepts and process of management.
- Realize the importance of management for achieving organizational goals.
- Apply the principles of management to the management of extension organizations / services.

Contents

1. Concept of Extension Management
   - Definition, nature and process and need
   - Models and principles of extension management

2. Steps in Extension Management:
   - Co-ordination – meaning, objectives, linkage mechanisms – involvement of organizations at local level–non-profit & profit making organizations.
   - Controlling – meaning and process of control – management Control Techniques – budgetary and non-budgetary control – Modern techniques – PERT, CPM, requirements for effective control system.
3. **Theories, types and Role of Media**

- Theories and models of mass communication.
- Role of media in communication process
- Various types of media for communication
- Various constraints in the use of media
- Criteria in selection and use of various media

Course Code: GH103  
Course Category: Core  

Course Title: ENTREPRENEURSHIP MANAGEMENT

Credit: 04  
Contact hour/week=04

Objectives

- To provide conceptual inputs regarding entrepreneurship management.
- To sensitize and motivate the students towards entrepreneurship management.
- To orient and impart knowledge towards identifying and implementing entrepreneurship opportunities.
- To develop management skills for entrepreneurship management.

Contents:

1. Conceptual Framework
   - Concept need and process in entrepreneurship development.
   - Role of enterprise in national and global economy.
   - Types of enterprise – Merits and Demerits

2. The Entrepreneur
   - Entrepreneurial motivation – dynamics of meaning and motivation.
   - Entrepreneurial competency – Concepts.
   - Developing Entrepreneurial competencies – requirements and understanding the process of Entrepreneurship development, self awareness, interpersonal skills, creativity, assertiveness, achievement, factors affecting Entrepreneur's role

3. Launching and organizing an enterprise :
   - Environment scanning – information, sources, schemes of assistance, problems.
   - Enterprise selection, market assessment, enterprise feasibility study, SWOT Analysis.
   - Resource mobilization – finance, technology, raw material, site and manpower.
   - Costing and marketing management and quality control.
   - Feedback, monitoring and evaluation.

4. Project work – Planning, resource mobilization and implementation.

5. Government policies and Schemes for enterprise development
   Institutional support in enterprise development and management
References


Course Code: GH103P  Course Category: Core

Course Title: TEXTILE DESIGN (STRUCTURES)

Credit: 02  Contact hour/week=04

Objectives

- To develop awareness and appreciation of art & aesthetics in textiles
- To impart creative and technical skills for designing textiles with special emphasis on structural design.

Practical

1. Design Analysis
   - Structural and applied design variation in fiber, yarn and fabric construction, embroidery, dyeing, printing and finishes
   - Principles of design – harmony, balance, proportion, rhythm and emphasis
   - Elements of design – line and form, colour and texture
2. Sources of inspiration for basic sketching and painting: nature, religion and mythology, arts and crafts, architecture.
3. Process of designing
   - Motif development – geometrical, simplified, naturalized, stylized, abstract and ornamental
   - Big and small motifs – enlargement and reduction, growth of a motif
   - Colour consideration – colour harmonies and colour ways
4. Creation of patterns and designs
   - Combining motifs a) big and small and b) different sources
   - Placement and repeats for all over patterns.
5. Introduction to related computer software

References

Course Code: CFG105  Course Category: Skill Oriented
Course Title: Clinical and Therapeutic Nutrition
Credit: 04  Contact hour/week=04

Objectives:
This Course will enable students to:

- Understand the etiology, Physiologic and Metabolic Anomalies of acute and chronic diseases and patient needs.
- Know the effect of the various diseases on nutritional status and nutritional and dietary requirements.
- Be able to recommend and provide appropriate nutritional care for prevention / and treatment of the various diseases.

Contents
1. Obtaining medical & dietary history of patients.
3. Etiopathophysiology, metabolic and clinical aberrations, complications, prevention and recent advances in the medical nutritional management of :
   - Weight imbalances
   - Cardio vascular disorders
   - Diabetes mellitus and other metabolic disorders.
   - GI Tract Disorders
   - Liver and gall bladder, Pancreatic disorders
- Renal disorders
- Stress and trauma
- Cancer
- Infection AIDS
- Respiratory problems

References:


Journal and Other References Series:

13. Nutrition Update Series
14. World review of nutrition and dietetics.
15. Journal of the American Dietetic Association
Course Code: GH201  
Course Title: Child and Human Rights (Multi-Disciplinary)

Course Category: Multi-Disciplinary

Credit: 04  
Contact hour/week=04

Objectives

- To develop awareness and perspective of Human Rights as a professional in the field of Human Development.
- To develop sensitivity to Human Rights with specific reference to children's rights
- To gain knowledge about Charter on Human and Children's rights
- To work with women and children to create awareness about their rights and to guide them to access their rights.

Contents

1. Definition and Evolution of Rights
   - Human rights
   - Child rights
   - Women's rights

2. Status of Indian Children and their rights
   - Gender disparities (infanticide, foeticide, girl child).
   - Children in difficult circumstances (Children of prostitutes, child - Prostitutes, Child labour, street children, refugee children and child victims of war).
   - Children with special needs.

3. Status of Women and their Rights
   - Status of women in India.
   - Women and human rights
   - Forms of violation of women's rights

   - Violence against women in home, work places and society
   - Sexual harassment, rape
   - Crime against women
• Political discrimination

1. **Human Rights**
   - Moral rights
   - Legal rights
   - Civil and political rights

6. Advocacy for Human rights.

**References**


4. **D'Souza, C. and Menon, J.** Understanding Human Rights (Series 1-4) Bombay: Research and Documentation Centre, St. Pius College.


25. Manav Adhikar and Sanyukta Rastra Sangh, Satis Chaturvedi


#
Course Code: GH202  
Course Category: Core

Course Title: CURRICULUM FOR EARLY YEARS

Credit: 04  
Contact hour/week=04

OBJECTIVES

- To realise the importance of early years and why childhood matters.
- To understand the need for curriculum planning in early years and developing understanding of ECCE curriculum models and approaches.
- To develop understanding of current trends, issues, researches theories and practices of ECCE programmes.
- To understand theories of play, value of play and its implication for ECCE programmes.
- To enable students to:
  - Plan programmes for various ECCE setting and implement the same.
  - Supervise participants in ECCE laboratory settings,
  - Monitor and evaluate different ECCE programmes.

Contents

1. Early Childhood matters
   - The need and importance of Early Child Development (ECD) and Early Childhood Care and Education(ECCE)
   - Determinants of Child Survival and Development
   - Ensuring quality and effectiveness in ECD programmes.
   - Provision of equity and access to programmes.
   - Diversity in programme conceptualization, training and implementation.

2. A. Contribution of Indian Educators and its implications for Programme Planning in Indian Context
   - Christian Missionaries, Arundales
   - Indian innovations of Western Theories: Gijubhai Badheka, Tarabai Modak.

B. ECCE curriculum and intervention models and innovative programmes and approaches across countries.

C. Programmes and approaches be studied with reference to
   - Theoretical concepts
   - Programme content
   - Learning environment
3. Planning ECCE Programmes
4. Issues and concerns related to ECCE/ECD Programme
   - Coverage of populations, reaching the unreached
   - Gender equality and equity
   - Quality and sustainability
   - Training of personnel
   - Accreditation
5. The need and role of advocacy for quality and ECCE programmes
   - Consultancy and advocacy among ECD professionals
   - Advocacy role with NGOs, Government institutions, national and International Organization / agencies, Policy Planners and media
Course Code: GH203
Course Category: Core#
Course Title: APPAREL DESIGN AND CONSTRUCTION
Credit: 04
Contact hour/week=04

Objectives
- To impart an in-depth knowledge of style reading, pattern making and garment construction technique.
- To development and understand the principles of pattern making through flat pattern and draping

Content
Theory
1. Detailed study of industrial machines and equipment used for
   - Cutting
   - Sewing
   - Finishing
   - Embelishment

2. Study the interrelationship of needles, thread, stitch length and fabric
   - Calculating fabric requirement.

3. Methods of pattern making
   - Drafting
   - Flat pattern
   - Draping

4. Developing paper pattern
   - Understanding the commercial papper pattern
   - Layouts on different fabrics, width and types

1. Buying criteria for
   - Knits, silks, denim and other special fabrics
   - -Selection of appropriate fabrics and designs for different garments, different age groups and seasons
   - Readymade garments
Course Code: GH301  
Course Title: DEVELOPMENT COMMUNICATION (Core)  
Credit: 04  
Contact hour/week=04

Objectives
- To understand the concept of development, its indices and relationship with development communication.
- To understand the concept of development communication and its relevance to fostering development.
- To impart knowledge about the processes involved in developmental communication with special emphasis on design of communication strategy.
- To impart skill and knowledge about the relevance, potential and use of various media in development communication with due consideration to government policies and regulations.

Contents

Theory
1. **Basic Concept: Development**
   - Definition, Basic concept, nature, evolution, significance, functions and dysfunctions, dynamics of development.

2. **Basic Concept: Development Communication**
   - Definition, evolution with respect to historical and cultural perspective of development communications.
   - Nature, role and significance of development communication
   - Models of development communication
     1. Interdependent model
     2. Dependency model
     3. Basic needs model
     4. New Paradigm of development
- Approaches to development communication – Diffusion and Extension approach, participatory approach
- Strategies in development communication.

3. Media in Development Communication

- Understanding the role of traditional and modern media in development communication.
- Use of folk media, puppetry, exhibitions, theatre, posters, print media (news papers, books, leaflets, IEC material), radio, television and cinema.
- Government policies and regulations on mass media in India.
- Understanding and analysis of the ongoing Govt. and non-governmental efforts in development communication.
- New avenue for development communication – literacy, women and development, human rights, environment.
DYEING AND PRINTING

Objectives
1. To impart the knowledge about preparation of fabric for dyeing & printing.
2. To understand the theory of dyeing in relation to various classes of dyes.
3. Application of various dyes & properties related to it.
4. To introduce the concept of dyeing at commercial level.
5. To inculcate awareness of the different methods of printing and appreciate the technical advantages of each.
6. To develop technical competency in printing with different dyes on different fabrics.

Theory

1. Preparation of fabric for dyeing & printing
   - Scouring, bleaching, designing
   - Reagents used & their application
   - Specific preparatory steps for cotton, wool, silk & man made fibres
   - Equipment used at cottage & industrial level for yarn, fabric & price goods
2. Dye
   - Classification, definition, components
   - Colour & chemical constitution of dyes
   - Dyeing with chemical dyes
     a. direct, reactive, vat, sulphur, azo [or cellulose]
     b. acid, metal complex, chromemordent [for protein]
     c. basic, nylonine, disperse [for man-made]
   - Dyeing with natural dyes
   - Use of pigments
   - Dyeing machines for fibers, yarns & fabrics
   - Industrial dyeing practices
Course Code: 303  
Course Category: Core#

Course Title: CARE OF CHILDREN WITH DISABILITIES AND ILLNESSES

Credit: 04  
Contact hour/week=04

Objectives

❖ To gain information on different impairments and illnesses that affect children.
❖ To be sensitive to desires and wishes of children.
❖ To identify and assess impairment, illnesses, disability and the child's physical and social environment.
❖ To plan for inclusive educational programmes for children and involving the disabled child in the process.
❖ To become sensitive to concerns of parents of children with disabilities and collaborate with them for children's education and development.
❖ To interact and relate sensitively with children with disability, accepting individual differences and enable others to do so.

CONTENTS

1. Different types of impairments and serious illness, causes and the effects on children.
   - Physical, intellectual, sensory and emotional impairments.
   - Illnesses such as juvenile diabetes, asthma
2. The philosophy of inclusion.
3. Attitudes of others in the family and community.
4. Techniques for identification and recording progress.
5. Physical, organizational and social barriers in the development of children with disabilities
   - Modification and adaptation of physical and social environment, the meaning of inclusion, enabling participation of children with disabilities in the school and community so that they have a sense of belonging as well an opportunity to become contributing members.
6. Use of assistive devices.
7. Listening to children and including their views in life at school and home.
8. Care of the child in the family, role of parents, siblings and other members.
9. The rights versus needs of the children.
10. Examples of programmes for children with disabilities, innovative projects.
Course Code: CFG305  
Course Category: Skill Oriented

Course Title: SCIENTIFIC WRITING (Skill-Oriented)

Credit: 04  
Contact hour/week=04

Objectives

- To be able to appreciate and understand importance of writing scientifically.
- To develop competence in writing and abstracting skills.

Contents

1. Scientific writing as a means of communication
   - Different forms of scientific writing.
     - Articles in journals, Research notes and reports, Review articles, Monographs,
     - Dissertations, Bibliographies, Book chapters and articles.

2. How to formulate outlines
   - The reasons for preparing outlines:
     - as a guide for plan of writing
     - as skeleton for the manuscript
   - Kinds of outline
     - topic outlines
     - conceptual outlines
     - Sentence outlines
     - Combination of topic and sentence outlines.

3. Drafting titles, Sub titles, tables, illustrations
   - Tables as systematic means of presenting data in rows and columns and lucid way of indicating relationships and results.
   - Formatting tables: Title, Body stab, Stab Column, Column Head, Spanner Head, Box Head.
   - Appendices: use and guidelines

4. The Writing process
   - Getting started
   - Use outline as a starting device
   - Drafting
   - Reflecting, re-reading
     - Checking organization
     - Checking headings
• Checking content
• Checking clarity
• Checking grammar
  - Brevity and precision in writing
  - Drafting and re-drafting based on critical evaluation

5. Parts of dissertation / research report / article
   - Introduction
   - Review of literature
   - Methods
   - Results and discussion
   - Summary and abstract
   - References
• Ask questions related to: content, continuity, clarity, validity internal consistency and objectivity during writing each of the above parts.

6. Writing for Grants
   - The question to be addressed
   - Rationale and importance of the question being addressed
   - Empirical and theoretical framework
   - Presenting pilot study / data or background information
   - Research proposal and time frame
   - Specificity of methodology
   - Organization of different phases of study
   - Expected outcome of study and its implications
   - Budgeting
   - Available infra-structure and resources
   - Executive summary.

References


Course Title: COMMUNICATION TECHNOLOGIES IN EXTENSION

Credit: 04

Objectives

- To impart knowledge and understanding of various communication systems.
- To provide a sound knowledge base for the relevance and applicability of the various media used in human communication and their complementary role towards each other.
- To enhance the versatility of the students in the selection and use of media in different socio-cultural environments.
- To provide basic knowledge of concept of advertising and use of media in advertising.
- To impart skill in preparation of various Computer Aided Media messages.

Contents

1. Communication Systems
   - Types of communication systems – concept, functions and significance. Interpersonal, organizational, public and mass communication.
   - Elements, characteristics and scope of mass communication.
   - Mass communication – models and theories;
   - Visual communication – elements of visual design – colour, line, form, texture and space;
   - Principles of visual design – rhythm. Harmony, proportion, balance and emphasis
   - Visual composition and editing.

2. Media Systems: Trends and Techniques
   - Concept, scope and relevance of media in society.
   - Functions, reach and influence of media.
   - Media scene in India, issues in reaching out to target groups.
   - Contemporary issues in media – women and media, human rights and media, consumerism and media.
   - Historical background; nature characteristics, advantages and limitations and future prospects of media.
   - Traditional media; role in enhancing cultural heritage, co-existence with modern media systems and applicability in education and entertainment – puppetry, folk songs, folk theatre, fairs.
   - Print media; books, newspapers, magazines leaflets and pamphlets.
   - Electronic media-radio, television, video, computer based technologies.
3. Advertising
   - Definition, concept and role of advertising in modern marketing system and national economy.
   - Inter-relation of advertising and mass media systems.
   - Types of advertisements – commercial, non-commercial, primary demand, selective demand, classified and display advertising, comparative and co-operative advertising.
   - Techniques of preparation of effective advertisements for various media.
   - Ethics in advertising.

4. Computer Graphic Designing
   - Introduction to Basics of Computers.
   - Advantages of Digital Multimedia.
   - Introduction to Graphics.
   - Drawing objects, shaping, transforming, stretching, mirror and scaling, making curves, lines, rectangles, circles and ellipses. Creating special effects, editing it, extruding an object and using blends.

Course Code: GH402
Course Category: Skill Oriented
Course Title: ADVERTISING AND MARKETING
Credit: 04
Contact hour/week=04

OBJECTIVES
- To become aware of different market organizations in our economy.
- To understand the different marketing functions and the distribution system in our economy.
- To familiarize with the marketing strategies and market research.
- To understand the role of advertising in sales promotion.

Contents
1. Market Economy
   - Markets, marketing, marketing functions
   - Marketing environment, Marketing Research, market segmentation.
2. Product development and forecasting
   - Developing, testing and launching new products
   - Idea generation, screening and business analysis
- Understanding market demand and consumer adoption process.
- Labeling and packing.
- Stages in product life cycles.

3. Pricing practices and consumer interest pricing.

4. Advertising and Sales Promotion.
   - Advertising objectives, functions, benefits
   - Advertising budget and costs of sales promotion
   - Types of advertising
   - Evaluating of advertising effectiveness

5. Personal selling and sales management.
   - Characteristics and importance
   - Creative selling process.
   - Organising sales force, training personnel
   - Motivation, evaluation and control of sales force.

References
Course Code: GH403
Course Title: ADVANCE APPAREL AND FASHION DESIGN
Course Category: Core
Credit: 04
Contact hour/week=04

Objectives

- The course aims at providing in depth working knowledge of line development and enables a student to use and practice skills and knowledge already acquired, use it to market situation.
- To help develop skills in pattern making and construction.

Contents:

Theory

1. **Fitting** – factors affecting good fit, common problems encountered and remedies for fitting defects. [Upper and lower garments ]
2. **Clothing for people with special needs**
   - Maternity and lactation period
   - Old age
   - Physically challenged
3. **Elements used in creating design.**
   - Concept and scope of fashion, design, classification of fashion.
4. **Composition**
   - With one element
   - With more than one element.
5. **Colour** – its sensitivity and composition in dress.
6. Harmony – in form of space coverage to design of dress.
7. Components of fashion :
   - Silhouette
   - Details
   - Colour
   - Fabric
Course Code: CFG405
Course Category: Skill Oriented
Course Title: Assessment of Nutritional Status Practical
Credit: 04
Contact hour/week=04

Objectives:
The course is designed to:

- Orient the students with all the important state-of-the-art methodologies applied in nutritional assessment and surveillance of human groups.
- Develop specific skills to apply the most widely used methods.

Contents

Theory

1. Nutritional assessment as a tool for improving the quality of life of various segments of the population including hospitalized patients.

2. Current methodologies of assessment of nutritional status, their interpretation and comparative applications of the following:
   - Food consumption
   - Anthropometry
• Clinical and Laboratory
• Rapid Assessment & PRA
• Functional indicators such as grip strength, respiratory fitness, Harvard Step test, squatting test.

3. Nutritional Surveillance – Basic concepts, uses and setting up of surveillance systems.

4. Monitoring and Evaluation

References
8. FAO Nutritional Studies No.4 (1953): Dietary Surveys: Their Technique and Interpretation, FAO.


