

# **DEPARTMENT OF HOMESCIENCE**

## **Syllabus for Ph.D Entrance Examination**

### **Unit I: Food and Nutrition Science**

- Food Preservation
- Food Science and Food Analysis
- Food Processing
- Fundamentals of Nutrition
- Nutritional Biochemistry
- Food Microbiology
- Public Nutrition
- Therapeutic Nutrition

### **Unit II: Institutional and Resource Management**

- Management of Hospitality, Industrial and Social Institutes – Hospital / Hotel / Restaurant / Cafe and Outdoor catering.
- Concept of Home management and steps.
- Management of Human Resources; Classification of Resources; Basic Characteristics of Resources.
- Decision making in family; Steps in decision making; Methods of resolving conflicts.
- Work simplification; Importance of work simplification in home; Muhdel's classes of change; Simple pen and pencil technique in work simplification.
- Housing, Interior Design, Principles of Interior Design, Various Colours and Colour Schemes.

### **Unit III: Clothing and Textiles**

- Clothing Construction – basic Principles of Drafting, Flat Pattern and Draping Methods.
- Textile and Fashion Design – Principles, Concepts and Care.
- General Properties and Fine Structure of all Textile Fibers.

- Processing and Manufacture of all natural and man – made fibers.
- Definition and Classification of Yarns; Identification of yarns and its use in various fabrics.
- Fabric construction, definition and types of woven, non – woven, knitted and other construction techniques
- Testings of fibers, yarns and fabric; Importance of quality control and research institutes.

#### **Unit IV: Human Development**

- Child Development – Principles and Stages.
- Life Span Development – Theories of Human Development and Behaviour.
- Child rearing, Socialization practices and Dynamics.
- Early Childhood Care and Education – Emerging trends.
- Development problems and disabilities during childhood and adolescence, guidance and counselling.
- Advanced Child Study methods and assessment.
- Women’s Studies, Family Welfare Program – Recent Approaches.

#### **Unit V: Non-Formal Education and Extension Education**

- History and Development of Home Science in Formal / Non-formal and Extension Education.
- Theory and Practices of Program / Curriculum planning and development.
- Management and Administration of Formal / Non – formal and Extension Education.
- Monitoring, Supervision and Evaluation of Formal, Non – formal and Extension Education.
- Vocationalization of Home Science in India.
- Theories and Principles of Guidance and Counselling in Formal / Non – formal / Extension.
- Problems and Challenges encountered in Formal / Non – formal / Extension.