

## **Program Outcomes for UG courses of Faculty of Home Science**

### **Session 2022-23**

1. To develop skills in graduate students to be able to acquire theoretical and practical knowledge in fundamentals of biology in respective disciplines of plants, animals, microbes and environment.
2. To inculcate ability to critically evaluate problems and apply lateral thinking and analytical skills for professional development.
3. To create awareness on ethical issues, good laboratory practices and biosafety.
4. To develop ability in youth for understanding basic scientific learning and effective communication skills.
5. To prepare youth for career in teaching, industry, government organizations and self-reliant entrepreneurship.
6. To make students aware of natural resources and environment and its sustainable utilization.
7. To provide learning experience in students that instills deep interest in biological science for the benefit of society.

## **Programme Specific Outcomes (PSOs) for B.Sc. Home Science**

### **Session 2022-23**

1. To impart knowledge and facilitate the development of skills and techniques in different areas of Home science (namely Foods, nutrition & dietetics, Human development, Textile and fashion technology and community resource management) required for personal, professional and community advancement.
2. To develop knowledge, skills and competence in the application of science to daily living.
3. To inculcate in students, values and attitudes that enhance personal and family growth and to sensitize them to various social issues for the development of human society.
4. To promote in students a scientific temper and competencies in research to enable contribution to the national and international knowledge base in Home science and allied fields.

5. Consequently, to empower our women students such that they are able to effect positive changes at multiple levels.

**B.Sc. (HOME SCIENCE)**  
**SEMESTER – I**

**Paper 101: General English**

**Course Outcomes:** The course learning outcomes for this course are:

1. They will be acquainted with the poetic use of language.
2. They will learn the basics of grammar and composition.
3. They will learn to comprehend better.

**Paper 102: Hygiene and Promotive Health**

**Course Outcomes:** The course learning outcomes for this course are:

1. To define concepts of promotive health, disease and prevention.
2. To illustrate various communicable and non-communicable disease.
3. To acquire personal and hygiene.
4. To enable students to gain knowledge about prevention of disease in relation with nutrition.

**Paper 103: Introduction to Textiles**

**Course Outcomes:** The course learning outcomes for this course are-

1. To understand the elements and principles of designing.
2. To understand the concept of renovating and mending of clothing.
3. To provide the students with the sense of clothing and fashion in different age groups.
4. To understand the concepts of clothing in relation to complexion, figure and occasion.

**Paper 104: Food Science**

**Course Outcomes:** The course learning outcomes for this course are:

1. To acquire knowledge of various concepts of food science
2. To learn about the basic concepts and composition of food
3. To provide the knowledge about the principles of food science in various food preparations
4. To develop the ability to apply the principles of food science into practical situation
5. To know the importance of nutrition and various food groups
6. To get knowledge about improving nutritional quality of various foods
7. To equip with different cooking methods and techniques used while food preparation

**Practical Course Outcomes:** The course learning outcomes for practical of this course are:

1. To prepare various recipes using various cooking methods
2. To calculate the nutritive value of the recipe prepared

### **Paper 105: Introductory Chemistry**

**Course Outcomes:** The course learning outcomes for this course are-

1. To have comprehensive knowledge understanding of major concept of chemistry.
2. To enable students to use modern instrumentation for chemical analysis in relation with home science.
3. To review and apply knowledge of chemicals in the fields of clothing and textiles.

### **Paper 106: Introduction to Human Development**

**Course Outcomes:** The course learning outcomes for this course are-

1. To understand and identify key concepts in multiple areas of lifespan psychology including concepts, facts and theoretical perspectives
2. To identify the basic research and evaluation methods used in lifespan psychology, including the strengths and weaknesses of each method.
3. To have knowledge of and explain concepts related to human development.
4. To apply development theory to the analysis of child observations, surveys, and interviews using investigative research methodologies

### **B.Sc. (HOME SCIENCE)**

#### **SEMESTER – II**

### **Paper 111: Human Physiology**

**Course Outcomes:**

After studying this subject, students will be able to

1. Advance their understanding of some of the relevant issues and topics of Human Physiology
2. Understand the integrated function of all systems and the grounding of nutritional science in physiology
3. Understand alteration of structure and function in various organs and systems in disease conditions
4. Apply the knowledge of general and altered physiology to the field of nutrition such as by designing appropriate diets etc.

### **Paper 112: Prenatal and Infant Growth And Care**

**Course Outcomes:** The course learning outcomes for this course are-

1. To analyze major developmental milestones for children from conception through early childhood in the areas of physical, psychological, cognitive, and language development.
2. To know about the stages of prenatal development and the significance of prenatal care.

3. To examine and evaluate the role of play and its relationship to development at various stages.
4. To apply lifespan psychological concepts to the solutions of current issues and problems of prenatal development and infancy.

### **Paper 113: Laundry Science and Finishing of Fabrics**

**Course Outcomes:** The course learning outcomes for this course are-

1. Students will learn about laundry process and equipment.
2. Students will acquire knowledge about soaps, detergents, laundry reagents and their use.
3. Students will be able to describe different methods of fabric finishing and its purpose.

### **Paper 114: Introductory Home Management**

**Course Outcomes:** The course learning outcomes for this course are-

1. To understand the concept of human and non-human resources and its functions.
2. To acquaint students with the skills of management of time.
3. To skill students about work simplification techniques and energy management.
4. To impart knowledge about savings, investments, budget and energy management.

### **Paper 115: Basic Nutrition**

**Course Outcomes:** The course learning outcomes for this course are:

1. To enable students to understand the relation of nutrition to health
2. To understand the functions, sources, requirements and effects of excess and deficiency of different nutrients
3. To get knowledge about recommended dietary allowances of various nutrients
4. To learn culinary skills involved in preparation of various nutritious dishes

### **Paper 116: Nutritional Biochemistry**

**Course Outcomes:** The course learning outcomes for this course are:

1. Students will learn to think critically about nutrition and biochemistry.
2. Students will be able to understand the basic principle and composition of macronutrients as of carbohydrates, protein and lipids.
3. Students will understand the physiological importance of fat and water-soluble vitamins.

4. Students will recognize the major concepts and principles in biochemistry; and the role of enzymes in metabolic pathways.
5. Students will be able to think critically about biological processes and relation between nutrition and Biochemistry.

### **Paper 117: General English**

**Course Outcomes:** The course learning outcomes for this course are:

1. The students will be acquainted with the great non –fiction writers.
2. They will learn the basics of grammar and composition.
3. They will learn to comprehend better.

### **B.Sc. (HOME SCIENCE)**

#### **SEMESTER – III**

### **Paper 201: Nutrition in Life Cycle**

**Course Outcomes:**

After successful completion of this course, students will be able:

1. To familiarize the student about physiological and metabolic role of various nutrients
2. To learn the requirement of various nutrients throughout the life stages
3. To learn the physiological and metabolic role of various nutrients and their interactions in human nutrition
4. To understand the basis of human nutritional requirement and recommendations through the life cycle
5. To learn the actions of nutrients and their implications

**Practical Course Outcomes:** This course will enable the students to:

- Plan, calculate and prepare diets for various age groups and conditions as mentioned in theory

### **Paper 202: Introduction to Clothing Construction**

**Course Outcomes:**

After the completion of the course, students will be able to:

1. Learn basic garment construction and embroidery skills.
2. Use learned skills in clothing construction for different age groups and figure types.
3. Apply the use of pattern making for fashion and clothing.
4. Learn basic methods of developing design.
5. Apply theory in taking care of household textiles and garments.

### **Paper 203: Family Dynamics**

**Course Outcomes:** The course learning outcomes for this course are-

1. Gain information about importance, problems and adjustment in marriage life and family
2. Attain knowledge about role of parents and their involvement for overall development of the child
3. Get awareness about parent and community education for betterment of society
4. Get an insight into the family as a social system
5. Understand about the family disharmony due to changing socioeconomic conditions in the country.
6. Gain an understanding of the needs and problems of children, youth, women, the aged and the family as a whole.
7. Acquire knowledge about welfare services for family and children India.

### **Paper 204: Household Equipment & Consumer Protection**

**Course Outcomes:** The course learning outcomes for this course are-

1. To get knowledge and working of household equipment and tools.
2. To equip the students with proper care and storage of household equipment.
3. To make aware about consumerism.
4. To acquaint with consumer protection laws.

### **Paper 205: Community Development and Extension Education**

**Course Outcomes:** The course learning outcomes for this course are-

1. To explain and analyse the widening concept of extension education
2. To describe the community development and its set up in India
3. Use of technologically advanced visual aids in community development programs
4. Effective use of audio-visual aids for effective communication
5. Students will learn basic principles of program planning
6. Gain knowledge of various government programs for the welfare of community and poverty alleviation

**B.Sc. (HOME SCIENCE)**  
**SEMESTER – IV**  
**Paper 211: Applied & Community Nutrition**

**Course Outcomes:**

This course will enable the students:

1. To understand prevalence, etiology, biochemical and clinical manifestation and preventive measures for different community diseases
2. To develop a holistic knowledge base and understanding of the nature of important nutritional problems and their prevention and control for the disadvantaged and upper socio economic strata in society
3. Causes /determinants and consequences of nutrition problems in society
4. Assessment of nutritional status by using dietary and anthropometric methods

**Practical Course Outcomes:** This course will enable the students to:

1. Assess nutritional status of one family by using dietary and anthropometric methods
2. Prepare preserved products
3. Prepare low cost nutritious recipes by using germination, supplementation and fermentation

**Paper 212: Apparel Designing and Selection**

**Course Outcomes:**

This course will enable the students:

1. Explain the fundamentals of apparel designing.
2. Learn about the clothing requirements in different age groups.
3. Design garment for different figure types.
4. Visualize and apply the aesthetics in garment construction.

**Paper 213: Childhood and Adolescent Development**

**Course Outcomes:** The course learning outcomes for this course are-

1. To get knowledge about various stages of development during early childhood, middle childhood and adolescence.
2. To equip the students with knowledge of physical and motor development.
3. To make aware about basic emotional reactions, cognitive development, language and moral development.
4. To acquaint with importance of play and common behavioural problems.

### **Paper 214: Family Resource Management**

**Course Outcomes:** The course learning outcomes for this course are-

1. To understand the concept of human and non-human resources and its functions.
2. To acquaint students with the skills of management of time.
3. To skill students about work simplification techniques and energy management.
4. To impart knowledge about savings, investments, and budget.

### **Paper 215: Community Development Extension Education-II**

**Course Outcomes:** The course learning outcomes for this course are-

1. Students will be acquainted with the knowledge of purpose and process of education development.
2. Students will be acquainted of importance of extension education.
3. Students will learn about the role of home scientists in community development.
4. Understanding the steps and importance of programme planning.

### **Paper 216: Introductory Physics**

**Course Outcomes:** The course learning outcomes for this course are-

1. To understand the properties of the matter-solids,liquids and gases.
2. Students will learn about concepts of measurements and units of length, simple machines, friction and force.
3. Acquaint with knowledge about heat and sound, and their properties.
4. Students will get elementary knowledge of electricity and household electric wiring.

### **B.Sc. (HOME SCIENCE)**

#### **SEMESTER – V**

#### **Paper 301: Dietetics –I**

**Course Outcomes:**

This course will enable the students:

1. To understand the role of diet in health and disease
2. To know about the nutritional problems related to various diseases
3. To equip the students about the etiology, clinical aberrations, prevention and nutritional management of various diseases
4. To understand the relevance of therapeutic science
5. To know the inter relationship between different diseases and their nutritional management

**Practical Course Outcomes:** This course will enable the students to:



1. Plan, calculate, prepare, serve and evaluate therapeutic diets for diseases covered in theory
2. Prepare diet counseling aids for common disorders

### **Paper 302:Advanced Apparel and Textile Designing**

**Course Outcomes:** The course learning outcomes for this course are-

1. Understanding the fundamentals of textile designing.
2. Designing the garments for different age groups.
3. Visualizing and applying the aesthetics in designing.
4. Students will be able to analyze texture, line, shape, and their appropriate use.

### **Paper 303: Early Childhood Education and Children with Special Needs**

**Course Outcomes:** The course learning outcomes for this course are-

1. Understand the need and significance of early childhood care and education.
2. Understand the perspectives of philosophers on ECCE in India and world.
3. Understand approaches and pedagogy of ECCE.
4. Sensitize to the needs and challenges of children with special needs.
5. Understand the importance of identification, screening and assessment.
6. Appreciate the diverse educational arrangements as special, integrated and inclusive education.

### **Paper 304: Housing**

**Course Outcomes:** The course learning outcomes for this course are-

1. Students will be able to design and draw floor plans to meet a given set of requirements.
2. It will enhance creativity among students.
3. Students will learn various skills like pottery decoration, bag making, candle making.
4. This knowledge will help students become self-reliant and independent.
5. Students will get insight of landscaping.

### **B.Sc. (HOME SCIENCE)**

#### **SEMESTER – VI**

### **Paper 311: Dietetics –II**

**Course Outcomes:**

After successful completion of this course, students will be able:

1. To understand the etiology, physiology and metabolic anomalies of acute and chronic diseases and patients need

2. To know the effect of the various diseases on nutritional status and nutritional and dietary requirements
3. To recommend and provide appropriate nutritional care for prevention/ and treatment of the various diseases

**Practical Course Outcomes:** This course will enable the students to:

1. Plan, calculate, prepare, serve and evaluate therapeutic diets for diseases covered in theory
2. Prepare diet counseling aids for common disorders

### **Paper 312: Traditional Textiles, Embroideries and Consumerism**

#### **Course Outcomes:**

After successful completion of this course, students will be able:

1. Acquire knowledge of different textiles produced in different states of India.
2. Acquaint with the different motifs, colours and weaving techniques used in the textiles and their significance.
3. Acquire knowledge of historical background of various embroideries of India.
4. Learn different types of stitches, motifs, colours and materials used in the embroideries and their significance.
5. Acquires knowledge of different labels and special finishes and intelligent selection of textiles for personal and household articles.

**Practical Course Outcomes:** This course will enable the students to:

1. Acquire the skill in various embroideries done in India.
2. Learn about different stitches used in embroideries, motifs and colours used of different states.
3. To enable students to develop skills in garment construction.

### **Paper 313: Adulthood, Guidance and Counselling**

#### **Course Outcomes:**

After successful completion of this course, students will be able:

1. Understand and get insight into concept and various aspects of stages of adulthood.
2. Understand the issues faced and adjustments required at each stage across the adulthood.
3. Understand the importance, problems and adjustment in marriage, life and family in various phases of adulthood.
4. Develop an understanding of basic meaning of guidance and counselling.
5. Understand the importance of guidance and counselling.
6. Get acquainted with process and techniques of guidance and counselling.

## **Paper 314: Interior Decoration**

### **Course Outcomes:**

After the completion of the course, students will be able to:

1. Students will be able to identify basic elements and principles of art and design.
2. To learn flower arrangement and table setting for different occasions.
3. To be acquainted with lighting, furniture: arrangement, care and selection.
4. Construct basic design drafts for interior décor.
5. Develop basic skill for a career option in interior design.
6. Apply informed judgments in designing interiors.

## **Paper 315:Entrepreneurial Techniques in Home Science**

### **Option-I Food Processing**

#### **Course Outcomes:**

After the completion of the course, students will be able to:

1. Learn to prepare food preservation products.
2. Prepare various bakery products.
3. Calculate cost and execute sale of the prepared products.

### **Option-II Handicrafts**

#### **Course Outcomes:**

After the completion of the course, students will be able to:

1. Observe the details of carpet weaving.
2. Learn embroidery and printing techniques.
3. Gain knowledge of knitting
4. Learn packing and sale of prepared items.

### **Option-III Material Development for Childhood Education**

#### **Course Outcomes:**

After the completion of the course, students will be able to:

1. Develop play material suitable for various age groups of children.
2. Learn to prepare graphics and paper craft for children.
3. Learn the art of puppetry.
4. Calculating the cost, packaging and sale of play material developed.