

CO- PO Attainment- 2025- 26

I. B.Sc. Home Science Program Outcomes (POs)

PO No.	Domain	Program Outcome Statement (Aligned to Higher-Order Thinking)
PO 1	Core Knowledge & Application (Remember, Apply)	Apply comprehensive scientific knowledge of the five core areas of Home Science—Food and Nutrition, Human Development, Resource Management, Textiles and Clothing, and Communication—to address family and community needs.
PO 2	Critical Analysis & Problem-Solving (Analyze, Evaluate)	Critically analyze complex, interdisciplinary problems related to health, resources, and human dynamics, and develop evidence-based, sustainable solutions.
PO 3	Extension & Community Development (Apply, Create)	Design, implement, and evaluate effective communication and extension programs to disseminate scientific knowledge, foster behavior change, and promote development in diverse communities.
PO 4	Resource & Enterprise Management (Apply, Create)	Formulate strategies using principles of management, finance, and work simplification to optimize resources and explore entrepreneurial opportunities in home science sectors.
PO 5	Technical & Research Skills (Analyze, Create)	Demonstrate proficiency in specialized technical skills (e.g., food formulation, textile analysis) and conduct independent research, culminating in a final dissertation or project.
PO 6	Ethics, Gender & Sustainability (Apply, Evaluate)	Commit to professional ethics and social responsibility by integrating principles of gender equity, consumer protection, food safety, and environmental sustainability in all professional endeavors.

II. Course Outcome (CO) to Program Outcome (PO) Mapping (Bloom's Taxonomy)

The mapping scale used is: **3 = High, 2 = Medium, 1 = Low.**

Semester I Courses

Course Code	Course Title	CO No.	Course Outcome Statement (Action Verb)	PO1	PO2	PO3	PO4	PO5	PO6
MJC-1	Fundamentals of Food Science and Nutrition	1	Recall and explain the physiological, biochemical, and social aspects of food (Remember).	3	1	1	1	1	1
		2	Analyze the functions, dietary sources, and effects of deficiency/excess of specific nutrients in maintaining health (Analyze).	3	2	1	1	1	2
		3	Apply the principles of food composition and preparation to solve practical and real-world nutritional problems (Apply).	3	3	1	1	2	2

		4	Utilize current information technologies and communication skills for nutritional counseling (Apply).	2	1	3	1	2	1
MIC-1	Introduction to Textiles	1	Classify and differentiate between natural and man-made textile fibers based on their properties (Understand).	3	1	1	1	1	1
		2	Explain the processes of yarn spinning and various fabric construction techniques (Understand).	3	1	1	1	2	1
		3	Analyze the purpose and application of common textile finishes and their effect on fabric properties (Analyze).	3	2	1	1	1	1

		4	Determine and apply appropriate care and maintenance instructions for different textile products based on fiber analysis (Apply).	2	2	1	1	1	3
MDC-1	Communication and Extension	1	Describe communication models, concepts, and theories relevant to extension work (Remember).	1	1	3	1	1	1
		2	Design and execute impactful extension programs to address community needs (Create).	1	2	3	1	1	2
		3	Evaluate communication strategies and adapt them for optimal effectiveness in various contexts (Evaluate).	1	3	3	1	1	1

		4	Serve as skilled communicators and agents of positive social change (Apply).	1	1	3	1	1	2
SEC-1	Surface Ornamentation	1	Identify and use embroidery tools following safety and precision techniques (Apply).	1	1	1	1	3	1
		2	Create original design pieces using various Indian Embroidery, painting, and printing techniques (Create).	1	1	1	2	3	1
		3	Analyze design aesthetics and collaborate to develop design products (Analyze).	1	2	1	1	3	1
VAC-2	Homemade Cosmetics: Natural Approach to Radiance	1	Understand the basic principles, safety, and ethical benefits of using natural ingredients in cosmetic	2	1	1	1	1	3

			formulations (Understand).						
		2	Formulate and prepare a variety of homemade cosmetic products (Create).	2	1	1	2	3	3
		3	Apply hygiene, preservation, and packaging techniques for safe and stable products (Apply).	2	1	1	1	2	3
		4	Evaluate market scope and propose a plan for home-based entrepreneurship (Evaluate, Create).	1	1	1	3	2	1

Semester II Courses

Course Code	Course Title	CO No.	Course Outcome Statement (Action Verb)	PO1	PO2	PO3	PO4	PO5	PO6
MJC-2	Human Development I - Conception to Childhood	1	Analyze the biological, cognitive, social, and emotional	3	2	1	1	1	2

			processes that shape development from conception through childhood (Analyze).						
		2	Evaluate the impact of influential theories and environmental factors (e.g., media, family) on a child's well-being (Evaluate).	3	3	1	1	1	2
		3	Apply foundational knowledge of developmental milestones to support and interpret child behavior and growth (Apply).	3	2	2	1	1	1
		4	Propose supportive intervention strategies for atypical development during early childhood (Create).	3	3	2	1	1	2
MIC-2	Human Physiology	1	Explain the fundamental mechanisms of the	3	1	1	1	1	1

			human body's major organ systems (Understand).						
		2	Relate key physiological processes to the basis of human health and disease (Analyze).	3	2	1	1	1	2
		3	Demonstrate basic physiological principles in laboratory settings through practical measurements (Apply).	3	1	1	1	3	1
		4	Compare normal physiological data with abnormal ranges to infer basic health status (Analyze).	3	3	1	1	1	2
MDC-2	Fundamentals of Resources	1	Classify and evaluate various types of resources (human, material, financial, and environmental) and their significance (Evaluate).	2	2	1	3	1	2

		2	Formulate systematic approaches to planning and decision-making for optimal resource utilization (Create).	1	3	1	3	1	2
		3	Develop strategies for efficient resource management to achieve personal and collective goals (Create).	1	2	1	3	1	1
VAC-1	Basic Skills In Computer	1	Demonstrate a basic understanding of computer hardware, software, and system components (Understand).	1	1	1	1	3	1
		2	Proficiently use operating systems and productivity tools (MS Word, Excel, PowerPoint) for academic and professional tasks (Apply).	1	1	1	1	3	1
		3	Apply basic internet navigation, search engine usage, and	1	1	2	1	3	1

			digital security practices for effective communication and research (Apply).						
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Semester III Courses

Course Code	Course Title	CO No.	Course Outcome Statement (Action Verb)	PO1	PO2	PO3	PO4	PO5	PO6
MJC-3	Advanced Meal Planning and Food Service	1	Comprehend the basic concepts of balanced diet, RDA, and food exchange lists (Understand).	3	1	1	1	1	1
		2	Design and prepare balanced meal plans for different age groups and physiological states (Create, Apply).	3	3	1	1	2	2

		3	Analyze and adjust meal costs and menus for institutional food service based on budgets and time (Analyze).	3	2	1	3	2	1
		4	Evaluate food service systems and hygiene practices (Evaluate).	3	3	1	2	1	3
MIC-3	Housing and Interior Decoration	1	Recall and explain the basic principles and elements of interior design (Remember).	3	1	1	1	1	1
		2	Analyze the functional and aesthetic aspects of space planning in residential units (Analyze).	3	2	1	2	1	1

		3	Design and create simple floor plans and color schemes for specific rooms (Create).	2	3	1	3	3	1
		4	Evaluate different lighting and furnishing options based on sustainability and cost (Evaluate).	2	3	1	3	1	3
SEC-3	Food Preservation/Bakery Science	1	Explain the principles and importance of food preservation (Understand).	3	1	1	1	1	1
		2	Apply suitable preservation techniques and knowledge of baking chemistry to prepare various	3	2	1	1	3	3

			products (Apply).						
		3	Maintain strict hygiene and food safety standards during preparation and preservation (Apply).	3	1	1	1	2	3
AEC-1	Environmental Studies	1	Describe the key components and functions of natural ecosystems (Understand).	1	1	1	1	1	3
		2	Analyze the causes and impacts of major environmental pollution issues (Analyze).	1	3	1	1	1	3
		3	Propose sustainable solutions for resource conservation	1	3	1	2	1	3

			and waste management in a home setting (Create).						
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Semester IV Courses

Course Code	Course Title	CO No.	Course Outcome Statement (Action Verb)	PO1	PO2	PO3	PO4	PO5	PO6
MJC-4	Human Development II - Adolescence to Old Age	1	Describe the physical, cognitive, and psychosocial changes during adolescence and adulthood (Remember).	3	1	1	1	1	2
		2	Analyze the challenges and developmental tasks associated with career, marriage, parenting, and aging (Analyze).	3	3	2	1	1	2
		3	Apply strategies to promote successful adjustment and	3	2	2	1	1	2

			well-being during the different stages of adult life (Apply).						
		4	Evaluate family support systems and social policies impacting the elderly population (Evaluate).	3	3	1	1	1	2
MIC-4	Pattern Making and Garment Construction	1	Recall and explain the tools, terminology, and principles of pattern making (Understand).	3	1	1	1	3	1
		2	Draft and modify basic garment blocks (slopers) to achieve desired fit and style (Apply).	3	2	1	1	3	1
		3	Construct simple garments using appropriate seams, finishes, and sewing techniques (Create).	3	1	1	2	3	1
		4	Analyze common fitting errors and adjust patterns to correct them (Analyze).	2	3	1	1	3	1

SEC-4	Financial Literacy and Budgeting	1	Identify and explain fundamental concepts of personal finance (income, expenditure, savings) (Remember).	1	1	1	3	1	1
		2	Formulate a realistic personal or family budget based on financial goals (Create).	1	2	1	3	1	2
		3	Analyze different investment options and insurance policies (Analyze).	1	3	1	3	1	1
		4	Apply methods of consumer protection and effective debt management (Apply).	1	2	1	3	1	3

Semester V Courses

Course Code	Course Title	CO No.	Course Outcome Statement (Action Verb)	PO1	PO2	PO3	PO4	PO5	PO6
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B.Sc.HS-501	Participatory Program Management	1	Describe the stages and types of participatory community development programs (Remember).	1	1	3	1	1	2
		2	Apply management techniques (POSDCORB) for planning, monitoring, and budgeting extension projects (Apply).	1	2	3	3	1	2
		3	Evaluate the impact of community programs using appropriate tools (Evaluate).	1	3	3	1	2	2
B.Sc.HS-502	Developmental Challenges and Children with Disability	1	Explain the etiology and characteristics of common developmental challenges (Understand).	3	1	1	1	1	2
		2	Analyze the social, emotional,	3	3	1	1	1	2

			and educational needs of children with disabilities (Analyze).						
		3	Design inclusive and therapeutic activities to promote the development of these children (Create).	3	3	2	1	2	2
B.Sc.HS-505	Dietetics	1	Demonstrate comprehensive knowledge of human nutrition and metabolism (Understand).	3	2	1	1	1	1
		2	Assess nutritional status and plan therapeutic diets for various medical conditions (Analyze, Apply).	3	3	1	1	2	2
		3	Develop and apply basic counseling skills for promoting healthy eating behaviors (Apply).	2	1	3	1	1	1

		4	Evaluate different therapeutic approaches based on patient requirements (Evaluate).	3	3	1	1	1	2
B.Sc.HS-GE-4	Basics Skills in Computer	1	Proficiently use operating systems and productivity tools (MS Office) for academic and professional tasks (Apply).	1	1	1	1	3	1

Semester VI Courses

Course Code	Course Title	CO No.	Course Outcome Statement (Action Verb)	PO1	PO2	PO3	PO4	PO5	PO6
B.Sc.HS-601	Traditional Textiles and Costumes of India	1	Describe the history, significance, and regional variations of Indian traditional textiles (Remember).	3	1	1	1	1	1
		2	Classify and analyze various weaving, dyeing, and printing techniques specific to different states (Analyze).	3	2	1	1	3	1

		3	Evaluate the cultural and economic importance of traditional costumes in a contemporary context (Evaluate).	2	3	1	1	1	2
		4	Propose ways to revitalize traditional crafts for sustainable enterprise (Create).	1	2	2	3	2	3
B.Sc.HS-602	Family Finance and Consumer Behavior	1	Explain the principles of family budgeting, saving, and basic accounting (Understand).	1	1	1	3	1	1
		2	Analyze consumer rights, responsibilities, and decision-making processes (Analyze).	1	3	1	3	1	3
		3	Evaluate financial products (loans, credit cards) and advise on effective debt management (Evaluate).	1	3	1	3	1	2
B.Sc.HS-605	Food Safety Sanitation and Hygiene	1	Identify and explain causes of food-borne illness, intoxication, and infection	3	1	1	1	1	3

			(Remember, Understand).						
		2	Apply good personal hygiene and safe food handling procedures in institutional settings (Apply).	3	2	1	1	2	3
		3	Analyze and discuss the importance of regulatory requirements (e.g., HACCP) for food business safety (Analyze, Evaluate).	2	2	1	1	1	3

Semester VII Courses

Course Code	Course Title	CO No.	Course Outcome Statement (Action Verb)	PO1	PO2	PO3	PO4	PO5	PO6
MJC-7	Institutional Food Service and Management	1	Explain the types and organization of various institutional food services (Understand).	3	1	1	3	1	1
		2	Apply principles of large-scale food	3	2	1	3	2	2

			purchase, storage, and quantity production (Apply).						
		3	Design efficient layouts for institutional kitchens based on flow of work and equipment needs (Create).	2	3	1	3	3	1
		4	Evaluate cost control methods and food quality assurance programs (Evaluate).	3	3	1	3	1	2
MIC-7	Fashion Retailing and Merchandising	1	Describe the structure and operations of the fashion industry and supply chain (Remember).	3	1	1	2	1	1
		2	Analyze the factors influencing consumer buying behavior in textiles and apparel (Analyze).	2	3	1	3	1	1

		3	Develop merchandising strategies, including visual display and inventory control (Create).	1	2	1	3	3	1
SEC-7	Internship/Field Experience	1	Integrate theoretical knowledge into practical, real-world work environments (Apply).	3	2	1	2	3	2
		2	Demonstrate professional conduct, teamwork, and communication skills (Apply).	1	1	2	1	1	3
		3	Evaluate the functioning of the host organization and reflect on career readiness (Evaluate).	1	3	1	1	1	2

Semester VIII Courses

Course Code	Course Title	CO No.	Course Outcome Statement (Action Verb)	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6
RP-1	RESEARCH PROJECT/DISSERTATION	1	Formulate a clear research problem, objectives, and hypotheses based on literature review (Create, Analyze).	2	3	1	1	3	2
		2	Conduct independent investigation, collect data, and analyze and interpret results using appropriate statistical methods (Apply, Analyze).	1	3	1	1	3	1

		3	Defend and communicate findings clearly and ethically in a written thesis and oral presentation (Evaluate, Create).	1	2	3	1	3	3
		4	Evaluate the ethical implications of the research process and findings (Evaluate).	1	2	1	1	1	3
MJC-8	Current Trends and Future Directions in Home Science	1	Discuss recent advances and contemporary issues across all five branches of Home Science	3	2	1	1	1	2

			(Understand).						
		2	Analyze the role of Home Science professionals in addressing global challenges (e.g., climate change, poverty) (Analyze).	2	3	2	1	1	3
		3	Develop a personal and professional philosophy integrating Home Science knowledge for lifelong learning (Create).	1	1	1	1	1	3