BACHELOR OF SCIENCE
(HOME SCIENCE)

COURSE OUTCOMES

SEMESTER I

101 English language and communication skill (Poetry)

CO1: To develop an understanding of variety of poetic expression and various socio-cultural texts to cover a wide range.

CO2: To provide sample practice in writing letters, parts of speech and speech mechanisms

CO3: To develop and sharpen their writing and critical thinking skills.

C04: To understand and make students familiar with the exact pronunciation of English words and to develop a linguistic competence.

102 Applied Chemistry

CO1: To enable students to explain divisibility of atom by understanding atomic structure.

CO2: To account for the importance of sorting elements.

CO3: To explain various consequences of tetra-valency of carbon by understanding its atomic structure.

CO4: The course will develop practical skills to handle chemicals and apparatus and to perform all needed calculations and conclude the results

103 Human Physiology

CO1: Students learn about cell biology and animal cell structure.

CO2: Students learn the structure and functions of various systems of the body.

CO3: Students get the knowledge about cardiovascular system, skeletal system, digestive system, reproductive system, nervous system, excretory system and respiratory system in detail,

CO4: This knowledge will form the basis for further study on nutrition, biochemistry and micro biology.

104 Introductory Clothing

CO1: Students get knowledge of various cutting, drafting and sewing tools and equipments.

CO2: Students learn importance of taking body measurements and the correct method of taking body measurements.

CO3: Students learn the basic techniques of drafting, cutting and stitching.

CO4: Students learn proper selection of fabrics and biological, sociological and psychological importance of clothing.

105 Hygiene & Public Health

CO1: Students will be taught various aspects of personal hygiene.

CO2: Meaning of infection, mode of infection & prevention on infection, communicable diseases.

CO3: Types of immunity, vaccination schedule.

CO4: Importance of water to community. Household measures of purification of water.

CO5: Sewage disposal & treatment.

CO6: Solid waste and liquid waste disposal.

CO7: Causes, symptoms, mode of spread, treatment and prevention of diseases spread through food & water, insects, air, contact and soil & sexually transmitted diseases.

106 Basic Foods

CO1: To introduce the knowledge of foods, their functions, food groups and regulation of hunger and food intake.

CO2: To make the students learn and expertise in various methods of cooking.

CO3: To introduce methods of enhancing nutritional quality of foods.

CO4: To have sound knowledge of food adulteration and food laws and standards.

CO5: To make them work efficiently in foods lab.

Environmental-Studies

CO1: The environmental studies prepares students will have an understanding of primary environmental problems, invasive species, climate change, small populations, water pollution and the science behind those problems and potential solutions.

CO2: Students well prepared for meaningful careers and post graduates education in fields related to environmental science and beyond.

SEMESTER II

201 English language and communication skill (Poetry)

CO1: To develop an understanding of nuances of a variety of poetic expression by various methods.

CO2: To gain knowledge of theme based writing skills.

CO3: To help the learner in holistic development.

CO4: To gain knowledge on fundamental principles of English Grammar.

202 Physics

CO1: To understand the various properties of matter (solids, liquid and gases).

CO2: To learn about heat, electricity and verify ohm's law.

CO3: To understand the knowledge about friction and use of Vernier Calliper.

CO4: To study transformer and household appliances.

203 Human Development I

The students will be taught:

CO1: Growth and development; principles of development; factors affecting development.

CO2: Stages of development and prenatal development.

CO3: Development tasks of infancy and early childhood.

CO4: Various characteristics of neonates.

CO5: Physical, motor, social, emotional cognitive development during infancy and early childhood.

CO6: Observing physical, motor, social, emotional, cognitive development in infancy and early childhood.

204 Introduction to textiles

CO1: Students learn about various textile fibres- natural and manmade, properties of all the textile fibres.

CO2: Students gain knowledge of how fibres are converted to yarns, and qualities of various types of yarns.

CO3: Students get knowledge of weaving techniques and various types of weaves.

CO4: Other methods of fabric construction like knitting, felting, and bonding are also taught.

205 Applied Botany

CO1: Students learn about home and kitchen gardening.

CO2: Knowledge about the role of micro-organisms in soil fertility will be given.

CO3: Proper utilisation of space, crop rotation, intensive successive cultivation and intercropping will enable raising healthy seedlings.

CO4: Knowledge about planning and maintenance of lawn, terrace gardening, vegetative propagation of plants and tissue culture will be provided.

206 Fundamentals of Nutrition

CO1: To get the detailed knowledge of energy giving nutrients

CO2: To provide the detailed knowledge of vitamins, minerals and fibres

.CO3: To make them learn planning, calculation and preparation of nutrient rich dishes.

CO4: To help them build good foundation of a Dietician.

Environmental-Studies

CO1: The environmental studies prepares students will have an understanding of primary environmental problems, invasive species, climate change, small populations, water pollution and the science behind those problems and potential solutions.

CO2: Students well prepared for meaningful careers and post graduates education in fields related to environmental science and beyond.

CO3: Understanding of issues related to environment and its impact on human life.

CO4: Understanding of different components of environment and its functional & sustainable development.

Elementary Computer Education

CO1: Demonstrate a basic understanding of computer hardware & software.

CO2: Bridge the fundamental concept of computers with the present level of knowledge of students.

CO3: Familiarise operating systems peripheral devices.

CO4: Understanding the concept of input & output devices of computers.

CO5: Student will be able to navigate & search through the Intranet.

CO6: Students will be able to send email messages.

CO7: Students will be able to compose, format and edit a word document.

SEMESTER III

301 Extension Education and Rural Development

CO1: The students will be acquainted with meaning, principles, philosophy and objectives of extension education. Qualities and role of extension worker, approaches of extension.

CO2: Advantages and limitations of non projected aids. Role of extension education in Home Sciences and Agricultural development.

CO3: Various rural and community development programmes.

CO4: Programme planning and its steps.

CO5: Role of voluntary organisation in rural developments.

CO6: Role of Home Sciences in solving rural problems.

CO7: Preparation of various non-projected aids and puppets. Puppet play and visit to village to see government and voluntary organisation in action.

302 Human Development II

CO1: The students will study Developmental tasks, physical, motor, social, emotional & cognitive development in late childhood. Importance of peer group. Significance & function of school. Effects of success and failures.

CO2: Early adolescence- Primary and secondary sexual characteristics, storm and stress, early and late maturers, parent child conflict, body language, role confusion.

CO3: Late adolescence- Characteristics, various developments, choosing a career and factors influencing it.

CO4: Adolescent Problems, how parents and teachers can help to overcome them. Influence of peers.

CO5: Observing an adolescent and a child for different developments.

CO6: Preparing play material and craft activities for middle and late childhood.

303 Psychology-I

CO1: To acquire knowledge of Psychology, its scope and methods of psychological studies.

CO2: To have an understanding of the relation between Psychology and Home Science.

CO3: To study the relationship of mind and body.

CO4: To get the knowledge of sensation, perception, attention and emotions.

304 Introduction to Home Management-I

CO1: The course outlines the meaning and use of home management and it's process.It will enable in development of managerial skills in students

CO2: To make the students aware of decision making process and different types of decisions

CO3: To gain detailed knowledge of resources and their classification.

CO4: The course also focuses on management of two important resources- Time and Energy.

305 Laundry Science and Finishing Fabrics

CO1: Students get knowledge of various soaps and detergents used in laundry, their manufacturing method and uses.

CO2: Correct knowledge of washing and dry cleaning is given. What are laundry blues, starches and bleaching agents, how they are used on various textile fibres.

CO3: Various types of finishes given to textiles after their construction and before marketing.

CO4: Students gain knowledge of various types of dyes and printing methods.

306 Consumer Economics

CO1: Students gain knowledge of meaning and importance of consumer and economics. How consumers play an important role in economy.

CO2: Markets and functions of markets. Laws of consumption are taught.

CO3: Students become aware of all the malpractices prevailing in Indian markets. How to become better consumer?

CO4: Right and responsibilities of consumers are taught. Students learn various laws for the protection of consumers.

307 Food Science-I

CO1: To introduce students to the knowledge about food science and its application.

CO2: Knowledge about food technology, bio-fortification, bio- technology, nutraceuticals, organic foods, future foods, space foods, and packaging of foods will be imparted.

CO3: Students will be given knowledge regarding composition, nutritive value, milling, processing, preparation and storage of cereals,and pulses.

CO4: To give knowledge regarding composition, nutritive value and cookery of milk , sugar and their products .

SEMESTER IV

401 Community development and communication

CO1: The student will be taught meaning, scope, importance, elements, problems, models and types of communication

CO2: Various teaching methods, their advantages and disadvantages

CO3: Panchayati Raj system and Principles of democratic decentralisation

CO4: Various audiovisual aids. Factors in selection of teaching aids

CO5: Preparation and use of non projected aids to educate rural women

CO6: Preparation of projected aids

CO7: Use of puppet as media of communication

CO8: Preparing a radio talk

402 Human Development

CO1: To acquaint students with development tasks, significance of the period, responsibilities and adjustments during young adulthood

CO2: To teach about health issues and how to cope with stress at family and workplace during middle adulthood. Preparation of retirement

CO3: Developmental tasks of late adulthood. Adjustment to family life. Psychological and health problems

CO4: Effect of retirement on self, family, society, identity and friendship.

403 Psychology-II

CO1: To develop knowledge of motivation, thinking, reasoning and knowledge.

CO2: To improve the knowledge of methods of learning and intelligence

CO3: To make the students able to develop good personality

CO4: To have good understanding of memory and forgetting and to learn development of good memory

CO5: To make the students able to apply their knowledge to other fields of home science

404 Institutional food management

CO1: To make students acquaint with catering management, its scope and hygiene and sanitation.

CO2: To learn to organise kitchen, storage and service spaces

CO3: To have the knowledge of menu planning, various styles of food service

CO4: To learn to control food cost and pricing.

CO5: To be able to manage their own catering institution

405 Garment construction and apparel science

CO1: Students will have complete knowledge of selecting clothes for various age groups.

CO2: Students gain detailed knowledge of clothing construction techniques like drafting, paper patterns and draping.

CO3: Students learn about importance of fitting. They gain knowledge about perfect stitching.

CO4: Students gain knowledge of readymade garments. They learn about fashion, its importance in textile industry, knowledge of fashion cycles is gained.

406 Introduction to home management-II

CO1: This course gives basic knowledge about ergonomics emphasising on work simplification

CO2: it enables students to manage money which will help them in budgeting and saving

CO3: Through the course content students learn basic concept of tax and its calculation.

CO4: Gives detail knowledge of elements of art especially colour. The practical also covers colour schemes and use of colours in rangoli

407 Food science-II

CO1: To introduce the students to composition, nutritive value, processing, preparation and storage of vegetables, fruits, spices and condiments

CO2: To impart knowledge about selection, storage, nutritive value, composition and processing of eggs, meat, fish and poultry.

CO3: To create awareness about raising and leavening agents

CO4: To learn about evaluation of food quality

SEMESTER V

501 Family Dynamics

CO1: To impart correct knowledge regarding institution of marriage and family.

CO2: To learn about family life cycles, alternate family styles and adjustments within the family.

CO3: To educate about changing trends due to modernisation and westernisation.

CO4: To educate about planned parent-hood individual roles, rights and responsibilities within the family.

CO5: To teach about handling of crisis in a family.

502 Child Care & Rearing Practices

CO1: Students get the knowledge about problems and care during pregnancy and they know about types and stages of delivery.

CO2: Students understand the benefits of breast feeding. Also they know about weaning practices and supplementary food.

CO3: Students learn about the role of mother in training of an infant. They learn about sleep routine and toilet training of a child.

CO4: Students know about problems and remedies in infants and also about the excessive fear and how to tackle such problems.

503 Nutritional Biochemistry-I

CO1: The students will be taught definition of biochemistry and its relationship to other biological sciences.

CO2: Enzymes, co-enzymes, co-factors, specificity of enzymes, factors affecting enzyme activity. Enzyme inhibition. Enzyme Kinetics.

CO3: Biochemical role of various vitamins.

CO4: Classification of carbohydrates, carbohydrates metabolism.

CO5: Classification and properties of proteins. Metabolism of protein, Urea cycle.

504 Community Nutrition

CO1: To provide knowledge regarding nutritional problems of the community and their causes.

CO2: To have the knowledge of schemes and programmes to combat nutritional problems.

CO3: To have an understanding of the assessment of nutritional status.

CO4: To help them improve nutritional status of the community.

505 Indian Textiles

CO1: Students get acquainted with rich heritage of Indian textiles.

CO2: Complete knowledge of woven textiles and sarees from all over India.

CO3: Students gain knowledge of ethnic dyed and printed fabrics of India.

CO4: Students learn about rich embroideries from all the states of India.

506 Interior Space Designing

CO1: To enable the students learn basic concept of space management, their course outlines the selection of site and planning of rooms for house.

CO2: It also includes knowledge about building materials used in construction T h e students learn to calculate cost of construction.

CO3:Give basic knowledge about planning of kitchen and types of kitchen. Making floor plans of various rooms is done in practical

CO4;: To make them aware of various equipment used in the house, their selection and care.

507 Normal Nutrition

CO1: The students will know the relation of nutrition and health. Factors affecting energy requirements.

CO2: Concept of nutritionally adequate diet and meal planning.

CO3: Nutritional requirements, nutritional problems and food selection during adulthood, pregnancy, lactation, infancy, pre-school, school going, adolescence and old age

CO4: Planning, preparation and evaluation of diets for all age groups at different activity, sex and socio-economic levels.

SEMESTER VI

601 Women Empowerment

CO1: Students learn about status of women in India through various eras - Pre and post independence. Various trends in movements for Women in India are also taught.

CO2: Contemporary problems faced by women and problems in families with marital disharmony are taught.

CO3: How media has portrayed women till now; and how it can help women in empowering them.

CO4: Students will learn about various laws for the protection of women.

602 Child Welfare

CO1: They learn about aims, objective and policies of government for the welfare of children.

CO2: Students get the knowledge of problems of school dropouts and child labor and nutritional, educational and emotional deprivation in children.

CO3: Students know about the rehabilitation and care of children with special need like blind children, deaf and dumb and mentally retarded.

CO4: They know about national and international agencies working for welfare of children and they get knowledge about the importance of family planning.

603 Nutritional biochemistry

CO1: The students will be taught about classification properties of lipids and B oxidation and biosynthesis of fatty acids.

CO2: They will also be told about fatty livers, ketone body formation and ketosis.

CO3: TCA cycle, electron transport chain and oxidative phosphorylation theories.

CO4: Biosynthesis of proteins.

CO5: Nucleic acids, replication, transcription, translation and genetic code.

CO6: The students will identify various amino acids and also reactions of fats and oils.

604 Food Microbiology

CO1: Parameters affecting growth and survival of microbes are taught.

CO2: Students learn about the role of micro-organisms in different foods, and food preservation.

CO3: To give knowledge about food contamination, infections and intoxications.

CO4: To learn about role of microbes in food industry and their benefits.

CO5: To attain knowledge about microbial criteria of various foods.

605 Apparel Designing

CO1: Students learn about designs, their types and elements of designs.

CO2: Principles of designs and how to apply them in designing clothes.

CO3: Students learn about designing fabrics through variations in yarns, weaves and dying and printing.

CO4: Students will learn about designing garments and accessories for various figure types.

606 Interior Designing

CO1: To familiarise the students about interior designing, this course gives them knowledge about window treatments and various type of curtains, making samples as part of practical.

CO2:To give knowledge about furniture selection, types and arrangement.

CO3: The course also enables the students to know about principles of design which will help them in home decoration. Use of these principles in flower arrangement

CO4: As part of practical ,they are made aware of use of principles and elements of art in pottery decoration and flower arrangement.

607 Therapeutic Nutrition

CO1: The students will be acquainted with principles of diet therapy and role of a dietician.

CO2: causes, types and nutritional management of GJ tract disorders, fevers, obesity, under nutrition and diabetes mellitus.

CO3: Nutritional management in Hypertension and kidney disorders.

CO4: Planning and preparation of diets in various disease conditions.

Elementary Computer Education

CO1: Demonstrate a basic understanding of computer hardware & software.

CO2: Bridge the fundamental concept of computers with the present level of knowledge of students.

CO3: Familiarise operating systems peripheral devices.

CO4: Understanding the concept of input & output devices of computers.

CO5: Student will be able to navigate & search through the Intranet.

CO6: Students will be able to send email messages.

CO7: Students will be able to compose, format and edit a word document.

CO8: Students will be able to demonstrate window and menu commands and how they are used.

PROGRAMME OUTCOME

PO1: Providing the knowledge of basic sciences viz physics, chemistry, botany, physiology and biochemistry .

PO2: Providing knowledge of humanities viz sociology, psychology, economics so that base for studying Home Science can be laid.

PO3: To provide detailed knowledge of all five fields of Home Science i.e Foods and Nutrition, Clothing and Textile, Human Resource Management, Human development and Extension Education.

PO4: To enhance basic scientific knowledge and skills in the field of home science so that they can go for higher studies and professionals in various fields.

PO5: To make students eligible for various jobs ie teaching, advertising,

Fashion designing and other

PO6: Providing knowledge and skills in the field of home science so that even if they are not employed, they can opt for self employment.

PO7: To gain knowledge and learn skills so that they become efficient home makers.

PROGRAMME SPECIFIC OUTCOME

After successful completion of B.Sc (Home Science) programme, students are provided with openings to pursue higher education, research, teaching and many other professions.

PSO1: In the field of food and nutrition, students can become dieticians, nutrition consultants, food technologists, food/hotel industries and enterprises.

PSO2: Students can become Textile designers, fashion designers, and merchandisers, work in knitting industry and boutique owners, if they prefer clothing and textiles field.

PSO3: They can also work as Interior decorators, in housekeeping, hotel and hospital industries if they go in home management field.

PSO4: In sphere of human development, students can became child psychologists, counsellors, child development project officers (CDPO), health counsellors in women and child welfare centres.

PSO5: Students can opt for working as extension workers, in mass communication, advertising industry, social workers, NGOs if they like extension education field.