

B.SC. HOME SCIENCE

PROGRAMME OUTCOMES

PO1: Demonstrate an in-depth understanding of core areas of Home Science—including Food & Nutrition, Human Development, Textiles & Clothing, Resource Management, and Extension & Communication.

PO2: Apply scientific knowledge and practical skills to improve the quality of life of individuals, families, and communities in response to changing social, cultural, economic, and technological environments.

PO3: Equip the students with domain-specific competencies that facilitate successful careers in diverse fields and develop entrepreneurship among them.

PO4: Integrate knowledge from biological, physical, and social sciences to make informed decisions that promote health & well-being, sustainability, and responsible consumption within households and communities.

PO5: Engage in scientific inquiry and research activities that generate insights into emerging issues related to community development.

B.SC. HOME SCIENCE

1st SEMESTER

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| MAJOR | Home and Interior Décor, Nutrition Science |
| Skill Enhancement Course | Art in Everyday Life |
| Ability Enhancement Course | English-I |
| Value Added Course | Environmental Science |
| MINOR | Fundamentals of Computing and Problem Solving using C, Basics Concepts of Chemistry, Introduction to Statistics |
| Multi Disciplinary Course | Financial Literacy, Organic Farming |

Name of the Course- Home and Interior Décor

Course Code- 24HSCS401DS01

Course Outcomes-

CO1: To appreciate the ideology of interior decoration and inter-relatedness of elements of art.

CO2: To develop understanding for principles of art & design to create aesthetically pleasing interiors.

CO3: To create knowledge about the role and effects of colour and lights in home decor.

CO4: To acquire knowledge of informed choices of selection, purchase and care of furniture and furnishings

CO : To explore and conceptualize different styles of flower arrangements and table setting.

Name of the Course- Nutrition Science

Course Code- 24HSCS401DS02

Course Outcomes-

CO1: To create understanding about the concept of food, nutrients, food groups, health and RDA

CO2: To describe the functions, sources, requirements, excess and deficiency of carbohydrate, protein and fat

CO3: To discuss fat-soluble and water-soluble vitamins, their function, sources, excess and deficiency effects

CO4: To get acquainted with important macro and micro minerals, their function, sources, excess and deficiency

CO5: To provide an insight of various methods of cooking and enhancing of nutritional quality of food.

Name of the Course- Art in Everyday Life

Skill Enhancement Course(SEC)

Course Code- 24HSC401SE01

Course Outcomes-

CO1: To develop skills of making different utility articles.

CO2: To identify techniques of upcycling by creating best products out of waste material.

CO3: To develop entrepreneur skills among students.

CO4: To develop skills of selecting best suitable techniques methods for creating decorative materials for home.

Name of the Course- Environmental Science

Value Added Course(VAC)

Course Code- 23EVSX01VA01

Course Outcomes-

CO1: Gain in-depth knowledge on natural processes and resources that sustain life and govern economy.

CO2: Understand the consequences of human actions on the web of life, global economy, and quality of human life.

CO3: Develop critical thinking for shaping strategies (scientific, social, economic, administrative, and legal) for environmental protection, conservation of biodiversity, environmental equity, and sustainable development.

CO4: Acquire values and attitudes towards understanding complex environmental economic- social challenges, and active participation in solving current environmental problems and preventing the future ones.

CO5: Adopt sustainability as a practice in life, society, and industry.

Name of the Course- English Ability Enhancement Courses(AEC)
Course Code- 23ENGX01AE01

Course Outcomes-

CO1: To introduce basic concepts of phonetics and train them to transcribe speech sounds using the symbols given in OALD (Oxford Advanced Learner's Dictionary).

CO2: To enable students understand basic grammar and vocabulary so that they can use it for their everyday communication.

CO3: To build elementary level Reading skills of the students to enable them to read and speak sentences frequently .

MINOR SUBJECTS IN B.SC. HOME SCIENCE
1st Semester

Name of the Course- Basics Concepts of Chemistry
Course Code- 24CHE401MI01

Course Outcomes-

CO1: Understand the atomic models by various atomic theories.

CO2: Understand the structural idea and relevance in describing shapes of s, p and d orbitals.

CO3: Understand the periodicity in atomic and ionic radii, electronegativity, ionization energy, electron affinity of elements of the periodic table and anomalous behavior of elements.

CO4: Recapitulate the mole concept.

CO5: Develop skills in using the mole concept for stoichiometric calculations.

CO6: Learn to apply stoichiometric principles to determine the quantities of reactants and products involved in chemical reactions.

CO7: Gain knowledge about the structure and bonding in organic molecules, including the concept of hybridization, bond angles, bond polarity and resonance.

CO8: Explore the fundamental types of organic reactions, including substitution, addition, elimination, and rearrangement reactions.

Name of the Course- Fundamentals of Computing and Problem Solving using C
Course Code- 24CSC401MI01

Course Outcomes-

CO1: Gain knowledge of essential computing concepts and its applications in various fields.

CO2: Develop proficiency in writing, debugging, and executing C programs to efficiently solve computational problems.

CO3: Demonstrate an understanding of data types, control structures, functions, arrays, and pointers.

CO4: Cultivate problem-solving skills through algorithmic thinking and programming techniques in C.

CO5: Apply modular programming principles to effectively organize and structure code for improved maintainability, scalability, and code reuse in C programming projects.

Name of the Course- Introduction to Statistics

Course Code- 24STA401MI01

Course Outcomes-

CO1: Students Acquired the Knowledge of Statistics and Importance in Various Areas

CO2: Students Acquired the Knowledge to Represent Data in Tables and Graphs

CO3: Students Acquired the Knowledge of Various Types of Data, Measures of Central Tendency and Dispersion

CO4: Students Acquired the Knowledge of Correlation, Regression Diagnostics, Partial and Multiple Correlations

CO5: Students Acquired the Knowledge of Independence and Association between Two Attributes

MDC SUBJECTS IN B.SC. HOME SCIENCE

1st Semester

Name of the Course- Financial Literacy

Course Code- 24COMX01MD01

Course Outcomes-

CO1: Understand the significance of financial literacy and the process of financial planning, including the preparation of personal, family, business, and national budgets.

CO2: Identify and differentiate between various types of banks and banking products/services, as well as post office savings schemes and services provided by India Post Payments Bank.

CO3: Gain knowledge about different life insurance policies, health insurance plans, and property insurance policies, and understand the offerings of post office life insurance schemes.

CO4: Familiarize with key terms and concepts used in stock markets, including various types of shares, market indices, and stock market transactions, as well as the taxation on capital gains and mutual funds.

Name of the Course- Organic Farming

Course Code- 24BOTX01MD01

Course Outcomes-

CO1: Understand the need and concept of organic and integrated farming system.

CO2: Develop a conceptual understanding of plant nutrients, utilization of biofertilizers.

CO3: Gain knowledge about the disease and pest management

CO4: Learn about the use of plant products in organic farming, quality control and certification procedures of organic products..

B.SC. HOME SCIENCE

2nd SEMESTER

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| MAJOR | Human Development, Fundamentals of Clothing and Textiles |
| Skill Enhancement Course | Culinary Skills |
| Ability Enhancement Course | Hindi Bhasha Sanvardhan (One), Sanskrit and Modern Indian Languages |
| Value Added Course | Digital and Technological Solutions |
| MINOR | Elementary Probability Theory, Internet and Web Designing, Chemistry of Metals & Non- Metals, Hydrocarbons and Solutions |
| Multi-disciplinary Course | Business Documentation, Plant Diversity and Human Welfare |

Name of the Course- Human Development

Course Code- 24HSCS402DS01

Course Outcomes-

CO1: To understand and identify key concepts in multiple areas of human development including concepts, facts and theoretical perspectives

CO2: To identify the basic research and evaluation methods used in human psychology, including the strengths and weaknesses of each method.

CO3: To have knowledge of and explain concepts related to human development.

CO4: To apply development theory to the analysis of child through observations, surveys, and interviews.

CO5: To learn methods of child study for analyzing and improving the quality of life.

Name of the Course- Fundamentals of Clothing and Textiles

Course Code- 24HSCS402DS02

Course Outcomes-

CO1: To understand the scope of clothing and textile and know various parts and the functioning of a basic sewing machine.

CO2: To understand the basic terminology used in clothing and textile.

CO3: To get acquainted with the criteria and factors affecting selection of clothing.

CO4: To gain knowledge about the properties and processing techniques of textile fibers.

CO5: To acquire the knowledge about principles, types, and manufacturing of yarns.

Name of the Course- Culinary Skills

SKILL ENHANCEMENT COURSE

Course Code- 24HSC402SE01

Course Outcomes-

CO1: To impart basic culinary skills

CO2: To identify techniques of preparing and cooking different food

CO3: To ascertain proper planning of food nutrients

CO4: To develop skills of implementing best suitable cooking method

CO5: To apply methods of saving and enhancing the nutritional value of food cooked

Name of the Course- Hindi Bhasha Sanvardhan (One)

ABILITY ENHANCEMENT COURSE

Course Code- 23HNDX01AE01

Course Outcomes-

CO1: 'शुद्ध हिन्दी के प्रयोग में अभिवृद्धि होगी।' (There will be an increase in the use of pure Hindi.)

CO2: 'व्यवसाय एवं रोजगार की उपलब्धता वाले सभी क्षेत्रों में हिन्दी भाषा में निष्पात युवाओं की सहभागिता में अभिवृद्धि होगी।' (The participation of young people proficient in Hindi language will increase in all fields where business and employment are available.)

CO3: 'अंतर्राष्ट्रीय स्तर पर हिन्दी-भाषा के वर्चस्व की स्थापना होगी और हिन्दी-भाषी को देश और विदेश में समुचित सम्मान मिलेगा।' (The dominance of the Hindi language will be established at the international level, and Hindi speakers will receive due respect in the country and abroad.)

Name of the Course- Sanskrit and Modern Indian Languages
ABILITY ENHANCEMENT COURSE
Course Code- 23SKTX01AE01

Course Outcomes-

- CO1: Origin, Development and Importance of a Language.
- CO2: Indo European and Indo Iranian Language families.
- CO3: Vedic Sanskrit and its Literature.
- CO4: Classic Sanskrit and its Literature.
- CO5: Contribution of Sanskrit to Ancient and Modern Indian Languages.

Name of the Course- Digital and Technological Solutions
Value Added Course(VAC)
Course Code- 23CSAX01VA01

Course Outcomes-

- CO1: Knowledge about digital paradigm.
- CO2: Realization of importance of digital technology, digital financial tools, e-commerce.
- CO3: Know-how of communication and networks.
- CO4: Familiarity with the e-governance and Digital India initiatives
- CO5: An understanding of use & applications of digital technology.
- CO6: Basic knowledge of all machine learning and big data

MINOR SUBJECTS IN B.SC. HOME SCIENCE
2nd Semester

Name of the Course- Elementary Probability Theory
Course Code- 24STA402MI01

Course Outcomes-

- CO1: Students Acquainted with the Basic Concepts of Probability Theory
- CO2: Students Acquainted with the Methods to Determine Probabilities of Occurring of the Events in Random Experiments

CO3: Students Acquainted with Idea of Random Variables and the Concept of Expectation

CO4: Students Acquainted with the Knowledge about Probability Mass Function and Density Function

CO5: Students Acquainted with the Knowledge to Understand Probability Distributions and It's Applications.

Name of the Course- Internet and Web Design

Course Code- 24CSC402MI01

Course Outcomes-

CO1: Understand the fundamental concept to Internet and search engine.

CO2: Understand the concept of Web-casting techniques.

CO3: Understand the concept of website planning.

CO4: Get exposure of HTML.

CO5: Gain good exposure of CSS.

Name of the Course- Chemistry of Metals & Non- Metals, Hydrocarbons and Solutions

Course Code- 25CHE402MI01

Course Outcomes-

CO1: Learn about classification of elements with their properties.

CO2: Understand the minerals and ores, metallurgical processes and refining of metals.

CO3: Define and classify different types of solutions and various ways to express the concentration of solutions.

CO4: Understand the concept of Raoult's law, different types of solutions and colligative properties.

CO5: Basic chemistry of alkane, alkene and alkynes.

CO6: Understand the structure and preparation of benzene.

CO7: Explain the concept of aromaticity and the criteria for a molecule to be considered aromatic.

CO8: Learn and identify the basic organic reaction mechanisms.

MDC SUBJECTS IN B.SC. HOME SCIENCE

2nd Semester

Name of the Course- Business Documentation

Course Code- 24COMX02MD01

Course Outcomes-

CO1: Understand the significance of business documentation and its advantages.

CO2: Learn to identify, draft, and create various business documents while adhering to necessary precautions.

CO3: Gain knowledge of banking documents like cheques, demand drafts, and mutual funds/stock market documents.

CO4: Develop the skills to complete account opening forms for different bank accounts and prepare financial instruments like bills of exchange and promissory notes.

Name of the Course- Plant Diversity and Human Welfare

Course Code- 24BOTX02MD01

Course Outcomes-

CO1: Judge the value of biodiversity

CO2: Understand the role of biodiversity in stabilizing the climate and economy

CO3: Know the causes and consequences of loss of biodiversity and planning of conservation strategies

CO4: Know the role of plants in human welfare