

B.Sc Home Science
B.HSc. I Syllabus Session 2002- 2003
Health & Microbiololgy
Paper I

Theory 75 Marks

S.W. 25 Marks

Topics included here rate for one Semester Courses and the students are required to know the elementary knowledge of topices listed below:

- 1.(a) Structure of the Bacterial cell.
(b) Definition of health and hygiene, Immunisation for a child, Definition of Air Pollution,
2. Sources of water supply, water borne diseases (Typhoid, Cholera) Purification of water.
3. Pasteurisation - Definition, Methods of pasteurisation, effect of pasteurisation, efficiency (Test) of Pasteurisation.
4. Immunity - Types of Immunity.
5. Antibiotics - Definition, Route of Administration of Antibiotics combination of antibiotics or antibiotics with other drugs, spectrum of activity, Testing of sensitivity. Some common Antibiotics.
 - (1) Pencillin
 - (2) Streptomycin - their action and uses.
6. Food poisoning causes due to microgranisms
7. Common diseases produced by micro organisms:
 - (a) Water borne infection (diseases) Typhoid, Cholera
 - (b) Air borne infection (diseases) Diptheria, pulmonary tuberculosis and small pox.

Sessional Work

1. Term Paper on Theory.
2. Allotment of sessional work assignment to students on the topics listed above.
3. Visit to social and preventive Medicine (S.P.M.) Department of Medical College.

B.Sc Home Science
B.HSc. I Syllabus Session 2002- 2003
Elements of Population Education
Paper III

Theory 75 Marks

Practical 25 Marks

1. Population Education, Definition objectives and scope Difference between population education and family planning education.
2. Causes for rapid growth of population in India and its effects on Health, Social Development and Quality of life. Socio Economic implications of over population.
3. Population and its rate of growth
 - (a) Population Growth in India
 - (b) World Population Growth in India
 - (c) Factors influencing Population growth
4. Demographic Features in India size and composition of population Rural Urban composition, Age composition, occupational Distribution, Litreacy, Density of Population Birth Rate, Death Rate, Life Expectancy etc.
5. Population Projection Meaning and Methods of Population projection, Importance and Limitations of Projection
6. Population Education Programme in rural areas
7. Population Policy in India since Independence Family Planning methods and services in India

Sessional Work

1. Survey work on family planning practices and other aspects of Population Education the community.
2. Visit to family welfare centres at women Hospital, Medical college and community Health Care.

B.Sc Home Science
B.HSc. I Syllabus Session 2002- 2003

House Hold Chemistry

Paper V

Theory 75 Marks

Practical 25 Marks

1. Fuel - general characteristics, classification and application of coal, coke, charcoal, diesel oil, kerosene oil, LPG & Petrol.
2. Fats, Oil, soaps & candles
3. Prevention of fires, Fire extinguisher, their constituents and their use.
4. General preparation, properties and use of acetic acid vinegar, ethyl alcohol and alcoholometry, lactic and tartaric acid and citric acid.
5. General preparation, properties and uses of Baking powder, Sodium carbonate, sodium bicarbonate, Boric acid & Borax, sodium tartrate, sodium benzoate
6. Preparation, properties and uses of amino acids and protein
7. Carbohydrates classification, preparation, properties and uses of glucose and sucrose

Practical

1. Analysis of mixture for two acid and two basic radicals
2. Redox Titration
3. Element detection.

B.Sc Home Science
B.HSc. I Syllabus Session 2002- 2003
Fundamentals of Food and Nutrition (core)
Paper VII

Theory 75 Marks
S.W. 25 Marks

Objectives

This course will enable the student to

1. Understand the functions of food and the role of various nutrients, their requirements and the effects of deficiency and excess (in brief)
2. Learn about the structure, composition, nutritional contribution and selection of different food stuffs
3. Be familiar with the different methods of cooking, their advantages and disadvantages.
4. Develop an ability to improve the nutritional quality of food.

Theory

Unit I Concept of Nutrition

Unit II Functions of food

Unit III Nutrients Macro and Micro nutrients

Classification, sources, functions

Recommended dietary allowances Deficiency and excess (in brief)

Water	Zinc
Carbohydrates, fats	Fluorine
Fats	Iodine
Energy	Selenium
Fibre	Copper
Calcium	Manganese
Iron fat soluble	Vitamins (A,D,E, K)
Magnesium	Soluble
Water soluble vitamins	Thiamine Riboflavin, Niacin
Vitamin C, Folic acid Pyridoxine, pantothenic acid vitamin B ₁₂	

Unit IV Basic Terminology Used in Food Preparation

Unit V Food Production (in brief) Food composition structure nutritional contribution and selection factors for the following

Cereals and Millets

b. Cereal and flour mixtures basic preparation

i. Boiled rice and rice pulao

ii. Chapati, puri paratha

iii. sandwiches

iv. pastas

v. pulses and legumes using whole dehusked and sprouted

Unit IV Vegetables

- a. Simple salads
- b. Dry Vegetables
- c. Curries

Unit Iv Fruits

Fruit preparations using fresh and dried stewed fruit, fruit salad

Unit VI Milk

- a. Porridges
- b. Curds, Paneer and their commonly made preparation.

Pulses

Fruits

Vegetable

Milk and Milk products

Nuts and Oil seeds

Meat, Fish and Poultry

Eggs

Sugars

Tea, Coffee, Cocoa, Chocolate and other beverages

Condiments and spices

Processed foods

Unit VI Methods of cooking, their advantages and disadvantages and Effect on Nutritive value

Unit VII Improving Nutritional Quality of foods

Germination

Fermentation

Supplementation

Substitution

Fortification and enrichment

Objectives :-

1. To acquire skills in food preparation techniques
2. To use appropriate methods of cooking for preparation of specific food products

Unit I Use & care of Kitchen equipment

Unit II Controlling techniques

- a. Weights and measures standard and household measure for raw and cooked food.
- b. Recipe and evaluation of a production

Unit III Food preparation and classifying recipes as good, moderate or poor sources of specific nutrients, Amount of ingredients to be used in standard recipe visavis portion size

- a. Beverages Tea, coffee, cocoa, fruit juice, milk, milkshakes

Unit 4 Milk

fruit Preparation using fresh and dried stewed fruit, fruit salad

Unit 6 Milk

- a. Porridges
- b. Curds, Paneer and their commonly made preparation

B.Sc Home Science
B.HSc. I Syllabus Session 2002- 2003

Consumer Economics

Paper VI

Theory 75 Marks

S.W. 25 Marks

Focus :

The main focus is on the understanding of market conditions and their impact on consumer behaviour pattern, and to make the consumer aware of their role and responsibilities as consumers in the economy of the nation.

Objectives :

This course will enable the student to

1. Understand the role of consumer in the market.
2. Become aware of marketing conditions and rights and responsibilities of consumers.
3. Recognize the problems in buying and know the means of redressal.
4. Know the consumer legislations and their limitations.

Theory

Unit I Consumption economics

Meaning and Definition

Family as a decision making unit of house hold

Consumer - Definition

Consumerism, rights and responsibilities of consumers - rights to choose, to be heard, to be informed, to redress, and to healthy environment

Unit II. Measures of living and consumption

Place of Living

Level of Living

Standards of living

Plane of Consumption

Level of Consumption

Standard of consumption

Price/Price of level/ Cost of living

Unit III. Consumer income

Types of income - real, money psychic, relationship of GNP, National income, personal income, disposable income.

Unit IV Market

Definition

Types of Markets segmentation and characteristics functions

Channels and Distribution

Unit V Business Cycles

Monetary theories of business cycle

Non monetary theories of business cycle

Implications for consumption

Unit VI Consumer in the Market

Consumer buying habits : Convenience goods, specialty goods

Buying Motives : Primary selective, rational, emotional and patronage

Consumer Product and Promotion Practices

Types of Products

Advertisement, sales promotion, packaging

Public Utilities names and important types, common problems solutions

Unit VII Consumer buying problems

Adulteration

Faulty weights and measures

Other malpractices in market

Pricing

Legal - guarantee and warranty contracts, instalment buying

Unit VIII Consumer Decision Making

Good Buymanship

Factors affecting consumer decisions

Unit IX Consumer protection services

Organisations

Legislation Important Laws for consumer protection

Consumer representation

Unit X Consumer and the Law

Types basic, social, statutory and their implications

B.Sc Home Science Syllabus
B.S.C I Syllabus Session 2002- 2003

Computer Basics (Core)

Paper VIII

Theory 75 Marks

S.W. 25 Marks

This course is designed to give basic inputs to students on computers and their functioning and hands on experience

The awareness of the basic applications of computers as the tool for education, information and research is to be created and emphasized. The teaching learning process should include demonstrations and hands on experience for all the students

Objectives

To enable the students to

1. Know the basics of computers;
2. To be able to use computers for education, information and research.

Theory

Unit 1. Computer Fundamentals

- a. Overview about computers
- b. Components of a computer
- c. Input/output devices
- d. Secondary storage devices
- e. Number systems : Decimal, Binary, Octal, Hexadecimal
- f. Representation of Information BCD, EBCDIC, ASCII
- g. Representation of Data Files, Records, Files
- h. File Organization and access
- i. Security and safety of data
- j. Introduction to Operating systems

Unit II Ms- Windows

- a. Introduction
- b. Exploring the Desktop
- c. Running multiple programmes
- d. Accessories
- e. Control Panel
- f. Managing Documents and Folders

Unit III Ms word

- a. Starting Ms word
- b. Creating and Formatting a document
- c. Changing Fonts and Point size
- d. Table creation and operations
- e. Auto correct, Auto text, spell check, thesaurus
- f. Word Art, Inserting objectives
- g. Mail merge, letter, label, envelope
- h. Page set up, page preview
- i. Printing a document

Unit IV Ms Excel

- a. starting Excel

b. Work sheet, Cell, inserting data into rows/columns

c. Alignment,

etc.

Unit V Ms Power point

a. Starting Ms power point

b. Auto wizard so on.

Unit Vi Internet

Unit Iv Forests

Utility of forests, and forest resources, deforestation and its impact, forest conservation

Unit V Air

Compostion and its usefulness to plants and animal kingdon, air pollutants sources, their health hazards, green house effect and agone layer depletion and its impact, contyrol measures

Unit VI Energy

Major sources of energy renewable and non renewable uncertanities with non renewable source of eneery, alternate energy sources and energy conservation measure

Unit VII Habitat and Population

Uncontrolled population growth and its impact, unplanned growth of cities and towns, migration, problems of housing essential services, control measures.

B.Sc Home Science Syllabus
B.S.C I Syllabus Session 2002- 2003

Ecology and Environment

Paper IX

Theory

Unit 1 Introduction

Meaning and definition of ecology and environment, scope of the subject, dimensions of environment land, air, water, forest, habitat, population,.

Unit 2 Land

As a resource, energy, and mineral resources, land pollution, sources, smelting and mining, industrial waste, agriculture, domestic waste, major health hazards, prevention and control.

Unit 3 Water

Utility of water

Problems and issues water pollution and scarcity, pollutants health hazards and their control.

Unit 4 Forests

Utility of forests and forest resources, deforestation and its impact, forest conservation

Unit 5 Air

Composition and its usefulness to plants and animal kingdom, air pollutants sources, their health hazards, green house effect and ozone layer depletion and its impact, control measures.

Unit 6 Energy

Major sources of energy renewable and non renewable uncertainties and non renewable energy sources alternate energy sources and energy conservation measures.

Unit 7 Habitat and Population - uncontrolled

Unit 8 Environmental education

Unit 9 Environmental protection - Meaning need

Policies, programmes and legislations

Unit VIII Environmental Education

Meaning, need and objectives, highlights, role of govt. NGOs and educational institutions, national and international agencies.

Unit IX Environmental protection

Policies Programmes and legislations

Practical

1. Visit to Air quality monitoring unit of the municipal corporation
2. Visit to water supply station and sewage plant to study the water system and the waste water and sewage disposal.
3. Identify the Food chain in our daily life
4. Study the water cycle and water distribution on earth.
5. Study the cooling effects of a evaporation
6. Study the uses of solar energy.

supply

B.Sc Home Science II
Introduction to Human Development
Paper I

Theory 75 Marks

S.W. 25 Marks

Unit 1 : An overview of the field of HD

- a. what is Human Development? Why do we need to study it? Definition of development and human development with focus on life span, nature and context of development, i.e. family & society, various across cultures, and individual differences in human development.
- b. Human development is a multidisciplinary science. The need to study human development, the progress of normative development and recognizing unusual development.
- c. Historical perspective of HD. The western perspective. The child of ancient times, medieval times, renaissance, republic and modern times. The Ancient Indian perspective. Beliefs of marka, moksha and dharma which lend purpose, a sense of continuity as well as social, moral and spritual guidance to the Indian life
 - ii. Bringing up children versus letting children grow
 - iii. Milestone of human development are marked by different ceremonies. The scientific study of children in India 50 years of child deveopment
- d. Scope of the field of HDFS. Opportunities for roles and employment researches on issues related to HD educationalist ranging from pre school to University planner of policies or programs related to child and family welfare implemting interventions for different aspects related to HD Settings availaible early childhood care and education (a) pre school centres (b) day care centres
 - (c) hobby centres, (d) early stimulation programs, (e) ICDS anganwadis
 - ii. Family and child welfare
 - iii. Children with special needs

Unit 11. Orientation to growth and development

- (a) Understanding growth and development
- (b) General principles of development
- c. Constraints and facilitators in growth and development
- d. The beginnings of a new life

Unit iii. Development of Physical and Motro Abilities across the life span

- a. An introduction to the dimensions of development over the life span
- b. What is physical and motor development

Unit iv. Cognitive Development Across the life span

Unit v. The Development of Language Across the Life span

Unit vi. Socio emotional Development Across the Life span

- a. Understanding social and emotional, development
- b. social development
- c. Emotional development

Unit vii. Personality Development Across the life span

Unit Viii. The context of social change and Human Development

B.Sc Home Science II
Resource Management
Paper II

Theory 75 Marks

S.W. 25 Marks

Theory

Unit I Introduction to Management

- a. Basic concepts of Management
- b. Similarities and differences in business, farm & family resource management

Unit ii. Purpose of management

- a. Management & change
- b. Achievement of Goals

Unit iii. Obstacles to the Improvement of management

- a. Lack of Awareness of management
- b. Lack of Awareness of resources
- c. Failure to evaluate Results of management
- d. Seeking ready made answers to problems
- e. Lack of Information

Unit iv. Family characteristics Influencing management

- a. Life style
- b. Type of family
- c. Family size, stage of family life cycle

Unit v. Factors Motivating Management

- a. Goals, definition types and utility
- b. values
- c. standards
- d. Decision

Unit vi Management Process

- a. Meaning and elements of process
- b. Planning

Unit vii. Resources in the family

- a. Types of resources
- b. Factors affecting the use of resources
- c. Classification of the family on the basis of resource

Unit viii. Management of Specific resources

- a. space, equipment, energy, community resources

B.Sc Home Science II
Introduction to clothing
Paper III

Theory 75 Marks

S.W.25 Marks

Theory

Unit 1 Equipment

Equipment and supplies used in clothing construction, their maintenance, problems faced, remedies with specific reference to sewing machine.

Unit 2 Selection of fabrics

Factors influencing selection of fabrics, budget, age, season, occupation, figure, etc.

Unit 3 Principles of clothing construction

General principles of clothing construction. Drafting and making paper patterns. taking body measurements for different types of garments. Preparation of fabrics for garment making.

Laying out of patterns, cutting and marking.

Practicals

Unit 1 Sewing Techniques

Sewing Techniques : Basic stitches, seams and seam finishes, fullness, placket, necking, finishes, fasteners, simple collars, patch pockets and their application to the garment's given below.

Unit 2 Garment construction

Drafting, cutting and stitching of simple garments, such as vest and bib. A line dress and knickers.

Bush - shirt and knicker, sun suit/ romper, simple frock and yoke.

B.Sc Home Science II
Life Span Development
Paper VI

Theory 75 Marks

S.W. 25 Marks

Unit 1 Introduction

The life span development perspective & the need to study development through the life cycle.
Inter relationship between the aspects of development.

Unit 2 Prenatal Period

Course of prenatal development, overview of birth process and complications.

Conditions affecting prenatal development

Hazards during prenatal development

Unit 3 Infancy (0-2 years)

Definition, physical growth & development in infancy

Reflexes, emotional states, Physical growth and motor development, brain.

Sensory & Perceptual development during infancy

Definition

Development of different senses

Developmental tasks of infancy, milestones & highlights of development

Factors influencing development

Unit 4 Importance of Social relationships

Role of parents, siblings, peers & others during the various stages of the life span

Unit 5 Early childhood (2 to 6 years)

Definition

Overview of early childhood years Highlights, developmental tasks, Milestones

Pre school Orientation to pre school education and significance

Importance of play for all round development

Unit 6 Middle childhood (6 to 12 years)

Definition

Developmental tasks

School significance and functions effects of success & failure

Peer groups Importance, functions in the life of children

Unit 7 Adolescence (13 to 18years)

Definition, different views regarding the period

Physical development Puberty, growth spurt, primary & secondary sex characteristics, early & late maturing adolescence

Identity Definition, body image, positive & negative outcomes (role, confusion, ego identity)

Choosing a career stages, factors affecting selection

Peers & Heterosexual relationship importance, age of occurrence, patterns of friendship (to be discussed)

Heightened emotionality meaning, causes, expression, characteristics of emotional maturity, conflict with authority.

Problems drug & alcohol abuse, psychological breakdown, STD & AIDS pregnancy

Unit 8 Young adulthood (19to4) years.

Definition of an " Adult " need to study

Development of tasks of a young adult, significance of the period, responsibilities and adjustment;
New family, work place, parenthood, independence, financial matters.

Sexrole issues & implications for young adults

Unit 9 Middle Adulthood (41 to 60 years)

Definition, physical changes

Menopause, Health issues

Stresses in middle age, coping with stress at family , workplace

Occupation & Job satisfaction

Pre retirement and leisure Preparation for retirement

Unit 10 Late adulthood and ageing

definition, physiological changes, health problems & cognitive & memory changes

retirement effect of retirement on self, family, society, financial problems faced.

Personality characteristics of old age factors in ageing.

Social family factors, attitudes towards the aged, old age & friendship

Interests recreational interest of the aged.

Issues old age homes, loneliness, coping with loneliness, living in joint family, prolonged, illness

Death Preparation of coping strategies.

B.Sc III Home Science
Introduction to Textiles
Paper VIII

Theory 75 Marks

S.W. 25 Marks

Theory

Unit 1 Classification of textiles

- a. Introduction to and classification of textiles, terminology in textiles
- b. History, composition, types, production, properties and uses

Cotton, linen, wool, silk, rayon, polyamide, polyester, and acrylic fibres.

Unit 2 Study of Yarns

Methods of spinning, making of spinning, making of sewing thread, simple, novelty, metallic and texturised yarns, stretch, combed, bi and multi component yarns characteristics. Yarn numbering systems (Cotton, count, denier, tex conversion from one to the other)

Unit 3 Weaves

- a. Physical singeing, napping, brushing, shearing, sizing, shrinking, tendering, calendaring, etc.
- b. Chemical bleaching, mercerizing etc.
- c. Special purpose finishes wrinkle, resistant, water resistant and repellent, flame retardant, durable press, soil release and resistant, antipilling, dyeing and printing etc.

Practicals

Unit 1 Identification of Textile Fibres

Visual, microscopic, burning and chemical.

Unit 2 Identification of Yarn types

Unit 3 Identification of weaves and their variations

Unit Sample collection for weaves and finishes and identification

B.Sc III Home Science
Personal Empowerment
Paper IX

Theory 75 Marks

S.W. 25 Marks

Unit 1 Personal Growth & Personality Development

- a. The challenge: Understanding & managing oneself: being aware of one's strengths and weaknesses.
- b. Personality Development: Factors & influences; emotional & motivational aspects; assertion vs. aggression.
- c. Peer pressures; issues & management; group conformity & individualism as co existing aspects.
- d. Conflicts & stresses, simple coping strategies.
- e. Adjustment & readjustment to changing needs & conditions of contemporary society,

Unit 2 Empowerment of Women

- a. Women & Development ; the personal, familial, societal & national perspectives.
- b. Capacity building for women; Education, decision making abilities & opportunities awareness & information on legal & political issues.
- c. Women's organizations and collective strength ; women's action groups, from different walks of life (e.g. Indira Gandhi, Jhansi ki rani, Medha Patkar, Kiran Bedi, Vijayalaxmi Pandit, Sudha Chandran, Anutai Wagh, Ila Bhat, Bhanvari Devi.

Brief sketches/ profiles of women's organization & collective and activist efforts to improve the quality of life or tackle issues of concern (e.g. SEWA, Women's co operative, WIT.)

B.Sc III Home Science
ENTREPRENEURSHIP MANAGEMENT

Paper I

Theory 75 Marks

S.W. 25 Marks

THEORY

Unit 1 Entrepreneurship

Definitions, need, scope, and characteristics of entrepreneurship, entrepreneurship development and employment promotion.

Identification of opportunities

Unit 2 Business environment for the entrepreneur

Government of India policy towards promotion of entrepreneurship. Exposure to demand based, resource based, service based, import substitute and export promotion industries.

Unit 3 Need, scope and approaches for project formulation. Market survey techniques, criteria for principles of product selection and development, choice of technology.

Major steps involved in setting up a small scale unit - project identification project formulation, resource mobilization.

Institutions, financing, procedure and financial incentives.

Financial ratios and their significance. Books of accounts, financial statements, funds flow analysis.

Unit 4 Techno economic feasibility of the project

Unit 5 Critical path method, project evaluation, review techniques as planning tools for establishing SSI.

Unit 6 Plan layout & process planning for the product establishing the unit.

Unit 7 Creativity and innovation problem solving, personnel management

Salaries, wages and incentives, performance, appraisal, quality control

Unit 8 Marketing and sales management

Marketing strategy, packaging, advertising, label intervention, pricing, sales services.

Unit 9 Legislations

Licensing, registration, municipal laws, business ethics, income tax, law application. Consumer complaining redressal.

Practicals

Developing a proposal for establishing an enterprise and techno economic feasibility of the project.

B.Sc III Home Science
Gender & Development
Paper II

Theory 75 Marks

S.W. 25 Marks

Theory

Unit 1 Conceptual analysis

Women in Development, women & development and gender approach to development. Shift from 'welfare' approach to development and empowerment approaches, implications.

Unit 2 Manifestations of gender imbalances

sex ratio, vital statistics, human resource development index.

Adverse effect on women and their participation in the development process

Barriers to women's access to inputs and services related to credit, legal rights, employment, equal pay and decision making.

Unit 3 National efforts

National Policy on women

Efforts by the different ministers particularly by the Department of women and child development Impact of international efforts

Post Beijing Scenario

Legal provisions

Role of the National commission for women.

Unit 4 Women at the grass roots

Need for emphasizing women at the grass roots. Means of empowerment changing status and role of women in the family and society.

Factors influencing such changes bridging gender difference to share benefits of development.

Need for organizational support - efforts towards this.

B.Sc III Home Science
The child with special with special needs (ECCE/ECSN/FCW)
Paper III

Theory 75 Marks

S.W. 25 Marks

THEORY

Introduction

Definition and terminology, relationship of delayed development and disability

Incidence and prevalence in India

The child at risk Poverty land gender issu

Issues in classification and labeling

Genetic and environmental factors in disability

Prevention of disability

Early detectio , screening,. Identfication and assessment in the community and at centre based programmes

Need for intervenation, education and rehabilitation.

Development of concepts in children from infancy to adolescence signifaction of onsent early stimulation and mobility training.

Motor, language and socio emotional development. Sensitivity of other senses

family role in detection and exarly simulation., Support and counselling for family.

Community role in prevention and awareness

Services for rehabilitation integration of child and family.

Unit 4 The cild with learning difficulties and disability

Definition of learning disability.Difference between difficulty and disability problems of labelling. Criteria for identification and diagnosis

Characterstics of children sensori, motor, perceptual, language difficulties consequences for school achievement. Causes and correlates of learning disability. Learning difficulties as related toacademic and psychological problems

Profile of the learning disabled child at school and in the family.Parents dilemma in socializaing the child

role of culture's expectations and family norms in seeking solutions.

Definitions deaf and hard of hearing children

classification mild, moderate severe and profoundc loss

conductive and sensorineural loss

Genetic, prenatal and perinatal causes of deafness. Approached to measurement simple and clinical methods

Cognitive, language, social and emotional development of children with hearing loss, importance of age of onset of loss for language development

Communication in children with hearing loss

Prevention, early treatment and stimulation

Family its role in detection and child's language developmetn. Supports and counselling for family.

Community effect of a ttitudes, services for rehabilitation, Integration of child and family.

VISUAL IMPAIRMENT

Definitions and partial sight. Legal and educational implications of definition

genetic and environmental causes with special reference to nutrition.

Prevention and treatment of impairment.

Behavioural problems associated with autism, schizophrenia, attention deficit hyperactivity disorder, enuresis and encopresis

Behavioural problems of children showing excessive anxiety school refusal

Biophysical and environmental correlates of disorders

Role of family in treatment and therapy.

Unit 5 The child with cerebral Palsy and Orthopaedic Disability

Definitions, classification and prevalence

Causes and associated conditions. Prevention and treatment approaches

Role of family and community. Stress in family and support mechanisms. Integration of children.

Unit 6 The child with communication Disorders

Significance of speech and language in communication.

Definition of communication disorders

Classification of disorders of speech and language. Multiple disorders.

Causes of organic and functional disorders

Psychological and behavioural characteristics of children

Family support and community services in treatment and management.

Unit 7 The child with Behavioural Disorders

Definitions and characteristics of behaviour disorders. Contextual and cultural differences.

Ecological and clinical classification.

Normalization and mainstreaming

Understanding the family with a special child

The child with mental retardation

Definition of intelligence, adaptive behaviour and mental retardation. Approaches to measurement

Mental illness as different from retardation.

Current classification and terms mild, moderate, severe and profound retardation
genetic and environmental causes; prevention

Characteristics of children with mental retardation from infancy to adolescence Physical, motor, cognitive language, personal social and emotional. Effect on the family.

Family and community mutual support role in development, attitudes acceptance and integration of child.

Unit III. The child with sensory Deficits

Auditory impairment

B.Sc III Home Science
Programmes for Rural and Urban Development

Paper IV

Theory 75 Marks

S.W. 25 Marks

THEORY

Unit 1 Five year plan

History of planning in India. Five year plans and their focus

Planning at different levels National to grass roots.

Unit 2 Programmes to enhance food production.

thrust on agriculture. National food production programmes ever since Independence Intensive production schemes.

Unit 3 Poverty alleviation efforts

Programmes for poverty alleviation for rural and urban areas; employment generation and social inputs. Concentration of efforts in the 1980's.

Current programmes for rural and urban poor.

Unit 4 Programmes for women and children

Women as target groups specific measure for women and children DWCRA; ICDS; IMY current programmes for women as implemented by the different Ministries and Department

Shift from welfare approach to development approach to empower approach

Unit 5 Role of NGO's

Need for participation of Non Governmental Organizations in development efforts.

Encouragement given to NGO's Role of CAPART.

Unit 6 Ppraisal of the efforts

Examining the impact of the developmental efforts in selected rural areas. Quantitative achievements of a programme and improvement.

Study of the evaluation reports of the various departments.

B.Sc III Home Science

Diet Therapy

Paper V

Theory 75 Marks

Practical 25 Marks

Theory

Unit 1 Basic concepts of diet therapy

Therapeutic adaptations of normal diet, principles and classification of diets

Unit 2 Team approach to health care. Assessment of patient's needs

Unit 3 Routine hospital diets

Regular, light, soft, fluid, Parenteral and enteral feeding

Unit 4 Energy modifications and nutritional care for weight management

Identifying the overweight and obese, etiological factors contributing prevention and treatment, low energy diets, balanced energy reduction behavioural modification. Underweight aetiology and assessment, high energy for weight gain, anorexia nervosa and bulimia

unit 5 Diets for febrile conditions, Infections and Surgical conditions

Unit 6 Etiological factors, symptoms, diagnostic tests and management of upper GI tract disease -

Diseases of Oesophagus and dietary management Diseases of stomach and dietary management. Gastric and duodenal ulcer dietary management.

unit 7 Etiology, Symptoms, diagnostic tests and management of

intestinal diseases Diarrhoea, Steatorrhoea, Diverticular disease, Inflammatory Bowel disease, Ulcerative Colitis, Flatulence, Constipation, Irritable Bowel, Syndrome, Haemorrhoids.

Unit 8 Etiology, Symptoms, diagnostic tests and management of

Malabsorption Syndrome, Celiac sprue, tropical sprue, intestinal brush border deficiencies (Acquired Disaccharide Intolerance) Protein losing enteropathy,

Unit 9 Anemias

Pathogenesis and Dietary management : Nutritional Anemias. Sickle cell Anemias, thalassemia, resulting from Acute Haemorrhage.

unit 10 Diseases of the Liver, Exocrine Pancreas and Biliary System.

Liver function tests and nutritional care in Liver disease in the context of results. Dietary care and Management in viral Hepatitis, Cirrhosis of liver, Hepatic encephalopathy, Wilson's Disease. Dietary care and management in disease of Gall Bladder and Pancreas. Cholelithiasis, Cholecystitis, Cholecystomy, Pancreatitis etc.

Practicals

To enable students to

1. Know the normal routine diets served in hospitals and for whom these would be served.
2. To be able to plan diets for therapeutic purpose.

Unit 1 Standardization of common food preparation for portion size.

Unit 2 Planning and preparation of Normal diet.

Unit 3 Planning and preparation of fluid food preparations Fluid preparations, Fuel fluid preparations. Planning & preparation of clean & full fluid diet.

Unit 4 Planning and preparation of recipes for soft/semi solid diet,

mehchanical, pureed. Planning and preparation of soft diet.

Unit 5 Planning and preparation of recipes using proteing concentrates

Unit 6 Planning and preparation of recipes usingsugar substitutes.

Unit 7 Planning and preparation of low fat and low calorie recipes

Unit 8 Planning and preparation of high fibre recipes

Unit 9 Planning and preparation of low fibre and low residue recipes

Unit 10 Planning and preparation of bland diet recipes

Unit 11 Planning and preparation diets for the following condition

Overweight and obesity, underweight, underweifht, fevers, ulcers, diarrhoea, constipation, malabsorption syndrome, viral hepatitits, liver cirrhosis, cholecystitits, nutrition anaemias.

B.Sc III Home Science
Maternal & Child Nutrition

Paper VI

Theory 75 Marks

Practical 25 Marks

Theory

Unit 1 Nutrition during pregnancy

Physiology of pregnancy, factors non - nutritional affecting pregnancy, importance of adequate weight gain during pregnancy, antenatal care schedule, nutrition requirements, during pregnancy and modification of existing diet & supplementation, Nutritional factors affecting breast, feeding Deficient nutrients and impact, energy iron, folic acid, protein, calcium & iodine, Problems of pregnancy and their management nausea, vomiting, aversions, pregnancy induced hypertension, obesity, diabetes, pregnancy.

Unit 2 Nutrition during lactation Physiology of lactation

Nutritional requirements during lactation and dietary management supplements, lactagogues, Preparation for lactation, Care and Preparation of nipples during breast hygiene.

Unit 3 Nutrition during infancy

Infant physiology relevant to feeding and care. Breast feeding Colostrum, its composition and importance in feeding. Initiation of breast feeding and duration of breast feeding. Advantages of exclusive breast feeding. Nutritional and other advantages of breastfeeding. Introduction of complementary foods, initiation and management of weaning, breast feeding etc. Bottle feeding circumstances under which bottle feeding is to be given. Care and sterilization of bottles. Preparation of formula. Mixed feeding breast feeding and artificial feeding. Teething and management of problems.

Unit 4 Immunisation schedule for infants and children.

Unit 5 Growth and development from infancy to adulthood

somatic, physical, brain and mental development, puberty, menarche, prepubertal and pubertal changes. Importance of nutrition for ensuring adequate growth and development.

unit 6 Growth monitoring and promotion

Use of growth charts and standards prevention of growth faltering.

Unit 7 Nutritional needs of toddlers, preschool, school going children and adolescents - Dietary management.

Unit 8 Management of preterm and low birth weight children

Unit 9 Feeding children with special needs

Unit 10 Dietary management of children during diarrhoea and fever Use of ORT & prevention of dehydration

Unit 11 Dietary management of children with inborn errors of metabolism (PKU, Glycogen storage disease, Wilson's disease), Malabsorption (Lactose Intolerance, celiac disease), Food allergies.

Unit 12 Nutrition and health care programmes for the mother and child ICDS and role of primary health centres.

Practicals

Unit 1 Preparation of high energy, high protein recipes for pregnant and Lactating women (Home level). Preparation of high energy, iron rich recipes by pregnant women. Preparation of

high energy, protein rich and iron rich recipes be used in supplementary feeding for pregnant and lactating Women. Assessment of existing diets. Pregnancy, lactation, Improvement of the existing diets.

Unit 2 Visit to antenatal clinic and counselling mothers at ANC.

Unit 3 Preparation of bottles for feeding sterilization and preparation of formula milks.

Unit 4 Preparation of nutrient dense, complementary foods for infants.

Unit 5 Planning and preparation of dietary schedule for infants.

Unit 6 Use of mylase rich foods in diets of infants and toddlers.

Unit 7 Preparation of nutritious snacks for children, rich in energy, Protein and important micro nutrients.

Unit 8 Preparation of packed lunch for primary school age, school age children and adolescent.

Unit 9 Preparation of various recipes for use in diarrhoea.

Unit 10 Planning diets for children with special needs.

Unit 11 Monitoring growth of children - weighing & charting growth.

Unit 12 Counselling mothers for growth promotion.

B.Sc III Home Science
Household Equipment
Paper VII

Theory 75 Marks

S.W. 25 Marks

Theory

Unit 1 Materials used for household equipment Base materials aluminium, iron, steel, stainless steel, copper, brass, glass, plastic Finishes mechanical and applied

Insulating materials mica fibreglass, mineral wool, puff, plastic, foams, rubber, etc.

Unit 2 Methods of forming and assembling equipment. Structural designing of the equipment and different joints used in assembling parts of the equipment.

Unit 3 Selection use & store of household equipment Resource conservation

Unit 4 Classification of household equipment in terms of Portable and non portable Electrical Motor driven and heating, Food related, Laundry, Cleanning, Personal care and, Recreation, Non electrical, Food related, Laundry, Cleanning, Personal care, Recreation

Small kitchen tools Knives, peelers, greater, stainer, ladles, spoons

Unit 5 Equipment design and their effect on work and body postures

Unit 6 Certification and guarantee their meaning, importance and implication Practicals

Identification of different Base material used in making household equipment Finishes used mechanical and applied

Insulating materials mica, fibre glass, mineral wool, rock wool, puff, plastic rubber etc.

Methods of forming and assembling equipment structural designing and soldering, welding, riveting etc.

Conservation of time and energy through use of ball bearing devices in chakki beat.

3. Demonstration of meter reading, fixing, fuse, different circuit series and estimate electrical utilization and operative cost

4. Operative principle of working to be shown as live demonstration and assignment on different household equipment as many different varieties to be in each type of equipment.

Motor driven

food related Refrigerator, freezer, grinder, mixer, blender, laundry Washing and drying machine.

Cleaning Vacuum, cleaner, dish washer, garbage, disposer, fans, exhaust, A.C

Personal Care Hair dryer, hair remover

Recreation Tape recorder slide projector, video cassette player

Heat Appliances

Food related surface heating units, toaster, percolators, cookers, ovens, laundry cloth dryers.

B.Sc III Home Science
Foundation of Art & Design
Paper VIII

Theory 75 Marks

S.W. 25 Marks

Theory

Unit 1 Introduction to foundation of Art

Design, definition & types Structural and Decorative
Elements & design

Line

Size

Form

Structure

Space

Pattern

Shape

Light Characteristics and classification

Study of colours - classification, dimensions, colour schemes and effect

Principles of design definition and their characteristics and types

Balance

Harmony

Scale

Proportion

Rhythm

Emphasis

Unit 2 Indian, regional, traditional and contemporary arts and their use in

Floor decoration

Home decoration

Accessories

Unit 3 Appreciation of Art

In terms of principles of art & design

In terms of composition and aesthetic appeal

Practicals

1. Free hand drawing memory drawing and sketching

2. Scale drawing, solid geometry, orthographic

3. Preparation of colour wheel and colour scheme

4. Elements of design laws of field, size, proportion, types of shadows

5. Residential space planning scale, lines, abbreviations, metric projections, defining by shades, shadows

6. Lettering

7. Use of colour for wall floor decorations and making accessories

8. Application of design principles in flower arrangement demonstration Appreciation from the point of view of principles of design composition

9. Gift wrapping and preparing decorative articles.

B.Sc III Home Science
Textile Designing & Printing
Paper IX

Theory 75 Marks

S.W. 25 Marks

Unit 1 Essentials of Design

Elements of Design colour systems and schemes Principles and designs

Classification of design structural and decorative relaistic,. Abstract stylized and gemoetric, traditional designs Layout in design ; repeat

To create a successful textile design for reproduction by different methods

Unit 2 Methods of Printing

Fundamentals of printing study of dyes and pigments for printing

Hand printing painting, stencil, block, spray, hand screen

Machine printing, flat Bed and Rotary, screen, spray, flock

Heat transfer, photot, lacquer

Introduction to computer design softwates.

Fundamentals of Embroidery, techniques, design, colors, combination & use of different threads.

Traditional embroidery, Phulkari, Kantha, Kutchy Kasuto, Chikankari.

Practicals

Unit 1 Fabric Painting

Unit 2 Block Painting

Unity 3 Stencil printing

Unit 4 Schreen Making of Printing

Unit 5 Spray Printing.