

DEPARTMENT OF HOME SCIENCE, LUCKNOW UNIVERSITY

POST GRADUATE CURRICULUM

Home Science is an interdisciplinary field of study comprising of Child Development (CD), Food and Nutrition (FN), Extension and Communication (EC), Textiles and Clothing (TC) and Family Resource Management (FRM). The Post Graduate Curriculum suggested below, incorporates a feasible blend of all these disciplines offered as 'Core Courses' and a specialization discipline offered as 'Elective Courses'. Both, Core and Elective Courses are augmented with 'Practical' along with 'Theory' part to make the students more competent in the emerging market oriented atmosphere.

The two year P.G. Course is divided into four Semesters i.e. two each in M.A.(Previous) and M.A.(Final). In these four Semesters knowledge enhancement of the students will be done through:

- 11 Core Courses (From five Disciplines)
- 02 Statistical Courses (From Statistics and Computer application)
- 06 Elective Courses (To be selected from any one of the five disciplines)
- 01 Dissertation (On the topic allotted from the chosen discipline)

The details of the semester wise courses offered in each discipline is as under:

SEMESTER- I

- Paper I -** Advance Human Development
- Paper II -** Food Science
- Paper III -** Extension and Communication Concepts in Community Development
- Paper IV -** Advances in Textile Science
- Paper V -** Research Methodology
- Paper V-** Related to Core Papers

SEMESTER- II

- Paper I -** Early Childhood Care and Education
- Paper II -** Advance Nutrition
- Paper III -** Theory of Management
- Paper IV -** Fabric Construction and Care
- Paper V -** Statistics and Computer Applications
- Paper VI (Practical)-**Related to Core Papers

SEMESTER- III

- Paper I-** Extension Programmes: Design and Evaluation
Paper II- Ergonomics for Home Science

Discipline I: Child Development

- Paper III (Elective) -** Methods and Materials for Early Childhood Care and Education
Paper IV (Elective) - Children with Special Needs
Paper V (Elective) - Methods of Studying Human Development

Discipline II: Food and Nutrition

- Paper III (Elective)-** Clinical and Therapeutic Nutrition
Paper IV (Elective) - Community Nutrition
Paper V (Elective)- Nutrition and Health Nutrition Programmes

Discipline III: Extension and Communication

- Paper III (Elective)-** Communication Technologies in Extension
Paper IV (Elective)- Management of Extension Systems and Programmes
Paper V (Elective)- Training and Development

Discipline IV: Textile and Clothing

- Paper III (Elective)-** Textile Testing and Quality Control
Paper IV (Elective) - Fabric Ornamentation
Paper V (Elective) - Basic Apparel Construction

Discipline V: Family Resource Management

- Paper III (Elective)-** Advance Home Management
Paper IV (Elective)- Financial Management
Paper V (Elective)- Management of Energy and Household Equipment

Each discipline will require:

Paper VI (Practical)::Related to Elective Papers

SEMESTER- IV

- Paper I -** Entrepreneurship Management
Paper II- Dissertation (*from Elected Discipline*)

Discipline I: Child Development

- Paper III (Elective)-** Family Guidance and Counseling
Paper IV (Elective)- Management of Programmes for Children and Families
Paper V (Elective)- Human Development: Theories and Current Trends

Discipline II: Food and Nutrition

- Paper III (Elective) -** Food Processing and Technology
Paper IV (Elective)- Food Quality Analysis

Paper V (Elective)- Institutional Food Administration

Discipline III: Extension and Communication

Paper III (Elective)- Gender in Extension and Development

Paper IV (Elective)- Community Health Management

Paper V (Elective)- Media and Extension

Discipline IV: Textile and Clothing

Paper III (Elective)- Advance Apparel Construction

Paper IV (Elective)- Fashion Designing and Communication

Paper V (Elective) Textile Management

Discipline V: Family Resource Management

Paper III (Elective)- Residential Interior Designing

Paper IV (Elective)- Consumer Economics

Paper V (Elective):- Resource Management

Each discipline will require:

Paper VI (Practical): Related to Elective Papers

SEMESTER- I

- Paper I -** Advance Human Development
- Paper II -** Food Science
- Paper III -** Extension and Communication Concepts in
Community Development
- Paper IV -** Advances in Textile Science
- Paper V -** Research Methodology
- Paper V-** Related to Core Papers

CORE COURSES

Advance Human Development

[Semester-I

Paper-I]

Unit -1

Human Development: Concepts, Principles, Growth and Development.

Pre-natal period and Birth: Development, genetic and environmental factors, delivery and birth.

Unit -2

Infancy: Physical and perceptual development; Cognitive, social and emotional development.

Unit -3

Early and Middle Childhood: Physical and motor development; Cognitive development; Social and Emotional development

Unit -4

Adolescence and Adulthood: Physical development; Cognitive development; Social and Emotional development

Practical:

- a. Study of physical, motor, social, emotional, language, intellectual and moral development at different ages and writing interpretative report.
- b. Prepare Resource File.
- c. Seminar/Presentation on any topic related to Human Development.

Food Science

[Semester I Paper- II]

Unit -1

Introduction to Food Science: Constituents of Foods- General, physical and chemical properties; Colloidal systems; gels; emulsions.

Enzymes: Importance of enzymes and their application in Food Industry

Unit -2

Cereals and Cereal Products: Types, composition and structure; Functional properties of starch; Wheat starch and Gluten formation; Properties of amylase and amylopectin.

Fats and Oils: Types and Sources (Animal and Vegetable); Functional properties and uses in cookery.

Unit -3

Milk and Milk Products: Composition; Uses in cookery; Effects of Heat, Enzymes, Acid and Salts on milk; Shelf Life and.

Eggs: Structure, composition and grading; Changes during storage; Functional properties; Uses in.

Meat, Fish and Poultry: Structure and composition; Post mortem changes.

Unit -4

Pulses and legumes: Composition and structure; Selection and variety; Functional properties of pulses.

Vegetables: Composition and classification; Changes occurring during cooking; Pigments and flavour constituents.

Fruits: Composition; Changes occurring during maturation and ripening; Post harvest changes; Pigments and flavour constituents.

Practical:

- Sugar Cookery: Stages of sugar cookery.
- Fats and Oils: Melting point, Smoke Point. Suitability of different fats as medium for cooking.
- Milk and Milk products: Effect of acids, salts, alkali, sugar, heat and enzymes.
- Eggs: Methods of egg cookery and effect of heat.
- Pulses: Effect of cooking and processing methods.
- Fruits and Vegetables: Effects of cooking, metal ions and p^H on pigments.

Extension and Communication Concepts in Community Development

[Semester I Paper- III]

Unit -1

Community: Definition, concept and characteristics of a community; Structure and organization of different types of communities: tribal, rural and urban.

Social groups and Organizations: Concept, types, characteristics of different social groups, interests, attitudes and motivations for affiliation.

Community Leadership: Concept, leadership theories; patterns and characteristics of leadership in different communities; Role of leadership in community development.

Unit -2

Extension: Meaning, changing concept of extension, philosophy, objectives, principles, functions, components of extension.

Extension systems: Outline of National Extension Systems in India: Community Development Programme, ICAR Extension System; State Agricultural Universities; KVK; Role of State Governments in Extension Programmes related to Community Health and other policies, Central Social Welfare Board, Panchayati Raj System.

Unit -3

Extension Teaching: Methods and Process; Steps in extension teaching methods; Teaching Aids: types, characteristics and functions; Role of Media in the Process of Learning; Cone of Learning.

Unit -4

Development Communication: Definition, Nature, Role and Significance of Development Communication; Interrelation between Development and Development Communication; Models of Development Communication.

Practical:

- a. Preparation of Teaching Aids: Charts, Posters, Flash Cards and Literature
- b. Visit to nearby slum areas and other places
- c. Preparation of reports based on survey

Advance Textile Science

[Semester-I

Paper-IV]

Unit-1

Polymer Science: Definition of Polymers, degree of Polymerization, Orientation and Crystallinity of Polymers, Addition and Condensation Polymers.

Methods and Techniques of Polymerization

Unit-2

Cotton: Morphological Structure, Chemical Composition, Physical & Chemical Properties, Modification of Cotton.

Silk and Wool: Chemical Composition, Chemical Structure, Physical and Chemical Properties.

Unit-3

Polyamide and Polyester Fiber: General Structure, Industrial process of Polymerization, Physical and Chemical Properties.

Acrylonitrile and Elastomeric Fibers: Synthesis, Physical and Chemical Properties

Unit-4

Yarn Nomenclature, Classification and Numbering System: Tex, Device and Count.

Yarn Manufacture: Spinning process, Modern Developments in yarn, textured yarn Technology.

Practical:

- a. Identification of Textile Fibres
- b. Identification of Yarn Types

Research Methodology

[Semester -I Paper-V]

Unit-1

Social Research: Concept, Nature, Scope, Types of Researches in Home Science.

Methods of Social Research: Induction, Deduction, Qualitative, Quantitative. Historical, Comparative and Evaluative.

Formulation and Selection of the Research Problems

Participatory Research.

Unit-2

Hypothesis: Concept, Types & Significance

Research Design: Concept, Types and significance.

Sampling: Concept, Types and Significance.

Unit-3

Sources of Data Collection: Primary and Secondary, Field and Documentary.

Tools of Data Collection: Interview guide, Interview schedule, observation and questionnaire.

Methods of data Collection: Interview, Questionnaire, Observation, Case Study and Projective techniques.

Unit-4

Measurement and Scaling

Processing of Data

Analysis and Interpretation of Data

Report Writing

SEMESTER- II

Paper I - Early Childhood Care and Education

Paper II - Advance Nutrition

Paper III - Theory of Management

Paper IV - Fabric Construction and Care

Paper V - Statistics and Computer Applications

Paper VI (Practical)-Related to Core Papers

Early Childhood Care and Education

[Semester-II

Paper-I]

Unit- 1

ECCE: Concepts, objectives, need, scope and significance.

Types of Pre-school: Play Centers, Day Care, Montessori, Kindergarten, Balwadi, Aganwadi.

ECCE in the National Policy on Education

Unit -2

Contribution of the thinkers in ECCE: Pestalozzi, Rousseau, Frobel, John Dewey, Maria Montessori, M.K.Gandhi and Rabindra Nath Tagore.

Unit -3

ECCE in India: Pre Independence period, Post Independence-Kothari Commission, Contribution of Five Year Plans to ECCE, Yash Pal Committee.

Contribution of the mentioned agencies/ programmes to ECCE in India: ICCW, IAPE, NCERT, ICDS, UNICEF, NCTE, Mobile Creche etc.

Unit -4

Pre-School Centers: Concept, Administrative set-up, Functions and Organization.

Practical:

- a. Visit to Early Childhood Care and Education Centres, recording information and observation and writing report.
- b. Planning ECCE programmes including infra-structural facilities and budget proposals.
- c. Conducting interaction programmes with teachers and parents.
- d. Developing literature for parents preparing & using visual Aids.

Advance Nutrition

[Semester II Paper- II]

Unit -1

Minimal Nutritional Requirements and RDA: Formulation and RDA and Dietary Guidelines; Reference Man and Reference Women; Body Composition.

Energy in Human Nutrition: Energy Balance; Assessment of Energy Requirements; Deficiency and Excess.

Carbohydrates: Digestion; absorption and metabolism (Glycolysis, Gluconeogenesis, Citric Acid Cycle); Regulation of Blood Sugar; Glycolic Index of Foods; Dietary Fibre; Composition, Properties and Nutritional Significance.

Unit -2

Proteins: Digestion, absorption and metabolism (Transamination and diminution of amino acids), Urea Cycle; Assessment of Protein Quality (BV, PER, NPO); Factors affecting bioavailability.

Lipids: Digestion, absorption and metabolism (beta-oxidation, de-novo synthesis of fatty acids, synthesis and breakdown of unsaturated fatty acids, cholesterol, phospholipids and triacylglycerol.

Nutritional significance: Saturated, mono-unsaturated and poly-unsaturated fatty acids.

Unit -3

Minerals: Bioavailability, requirements, functions, deficiency and toxicity.

Vitamins: Sources, requirements, bio-chemical functions, deficiency and toxicity.

Unit -4

Nutrition through the life span: Meal planning during adulthood, pregnancy, lactation, infancy, pre-school and school age, adolescence.

Practical:

- a. Preparation of Meal Plans for different age and socio-economic groups.
- b. Presentation of Seminars and Group Discussions.

Theory of Management

[Semester II

Paper III]

Unit-1

Management: Evolution, Concept, Objectives, Nature, Philosophy, Principles.

Decision Making: Concept, Types, Modes of Decision Making, Tools and Techniques, Cost Benefit Analysis.

Team Management

Unit-2

Planning: Concept, Nature, Purpose, Principles and Techniques.

Organization: Concept, Nature, Purpose, Principles and Types.

Staffing: Concept, principles.

Recruitment: Concept, Types, Principles

Unit-3

Directing: Concept, nature, Types and Significance.

Controlling: Concept, Objectives, Principles.

Monitoring and Evaluation: Concept, Tools and Techniques.

Unit-4

Personality: Concept, Development and Determinants.

Attitudes: Concept, Difference between Beliefs and Values

Stress: Concept and Management.

Group Behaviors and Dynamics

Fabric Construction and Care

[Semester-II

Paper-IV]

Unit-1

Principles of Fabric manufacture: Characteristics and significance of different processes- Woven, Knitted, Laces, Braids.

Weaving: Parts and functions of loom, Types of Weaver- Basic and Decorative.

Knitting: Types of Knitting, Properties.

Felts and Non-woven: Felting process, Knitting, Bonding and lace-making.

Unit-2

Fabric finishing methods: Classification of finishes. singeing, beatling, calendaring, weighing, shrinking, mercerization Parchmentisation, Wash-N-Wear.

Special Purpose finishes: flame retardant, water resistant and repellent, antistatic, stain and soil release finish.

Unit-3

Dyeing with Chemical dyes: Dyes classification, structure & users. Theory of dyeing; Types of dyeing- Stock dyeing, Yarn dyeing, Piece dyeing, Jet dyeing, Jig dyeing, Beam dyeing, Union dyeing, Pad dyeing, Solvent dyeing, Vacuum impregnation, Polychromatic dyeing, Cross dyeing, Foam dyeing.

Unit-4

Laundry Science: Stains- Classification and methods of removal; Soaps and detergents- Composition, manufacturing, application, merits and limitations.

Whitening agents_: Types and functions. Dry cleaning agents, methods, advantage disadvantage.

Practical:

- a. Identification of weavers by sample collection.
- b. Removal of stains on cellulosic, silk and synthetics.

Statistics and Computer Applications

[Semester II

Paper- V]

Unit-1

Statistics: Meaning, Uses and Diagrammatic representation of Data
Measures of Central Tendency
Measures of Dispersion

Unit-2

Correlation: Karl Pearson's Rank Correction Coefficient
Index Number
Probability: Concept and Theory
Chi Square
"t" test

Unit-3

Fundamentals of Computer: History of Computers, Generation of Computer, Language, Components, Applications of Computers.
Operating System & Internet: MS-DOS, MS-Windows, and Internet

Unit-4

MS-Office: MS-Word, MS Excel, and Power Point.
Introduction to Data Base Management Systems, Fox- Pro

SEMESTER- III

Paper I- Extension Programmes: Design and Evaluation
Paper II- Ergonomics for Home Science

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Each discipline will require:

Paper VI (Practical)::Related to Elective Papers

Extension Programmes: Design & Evaluation
[Semester III Paper- I]

Unit -1

Programme Planning: Meaning and importance of programme planning in extension; Principles of programme planning: programme development cycle and its components; Identifying felt needs of people, collection of base line data; SWOT Analysis.

Unit -2

Plan of Work: Meaning, importance, components of a plan of work; Developing a plan of work - factors to be considered in preparing the plan of work, Pre-requisites for developing plan, criteria for judging the plan of work; Resources for programme planning - Meaning of resource, types of resources, identification and appraisal of resources.

Unit -3

Programme Implementation: Aspects of execution, Factors responsible for the successful conduct of a programme, Role of officials and non-officials in programme implementation, Linkages with other agencies, Problems in implementation.

Unit -4

Evaluation and Follow-up: Meaning and purpose of evaluation, types of evaluation: self-evaluation and external evaluation, criteria for evaluation, Phases of evaluation, tools of evaluation, observation sheet, interview schedule, rating scale and checklist, Follow-up: Need for follow-up, methods of follow-up, correspondence, spot visit, meetings.

Documentation: Need for reporting and recording, Procedures for recording - aspects to be covered, Records and registers to be maintained in programme implementing institution.

Practical:

- a. Development of social welfare projects
- b. Development of Survey Performa for Review of welfare programmes
- c. Analysis of on-going welfare programmes
- d. Visit and survey places where on-going welfare programmes are under implementation
- e. Reporting on welfare programmes and presentation of reports

Ergonomics for Home Science
[Semester III Paper II]

Unit-1

Ergonomics: Definition, History and evolution.
Scope of Ergonomics in home and other occupations
Nature of work in household and other occupations

Human Body and Work: Physiology of Neuro-muscular function in relation to occupational ergonomics; Physiological factors in muscle work; Physical work capacity; Energy requirement for muscular work; Energy expenditure for different activities; Endurance and muscular strength.

Unit-2

Job Analysis: Significance of job analysis for occupational ergonomics; Fundamental elements of job analysis.

Concepts and significance of Anthropometry in relation to occupational ergonomics: Definition and Scope; Identification and analysis of postures

Unit-3

Environmental factors in relation to occupational ergonomics: Physical characteristics of task; Environmental stress factors such as Heat, Noise and Light; Effects and Control of Heat Stress; Noise Pollution and its effects; Effect of light on work efficiency

Unit-4

Application of Ergonomic Principles in: Tool Evaluation and Design; Work Station Evaluation and Design; House hold works; Maintenance of Postures

Practical:

- a. Anthropometry for household work
- b. Simulation studies in Kitchen Designing
- c. Assessment of Efficiency of Tools used in household works
- d. Assessment of impact of Wrong Postures on human body

ELECTIVE COURSES

Discipline I: Child Development

Methods and Materials for ECCE [Semester-III Paper-III]

Unit -1

Basic principles and methods of Early Childhood Education

Play: Role of Play in development and education in early years; Types of play activities. Programme Planning for young children: Principles, goals, objectives, schedule of activities.

Unit -2

Play activities and materials for physical and motor development: Movement and mobility; Gross and fine motor skills; Healthful living; Role of educator
Play activities for social and emotional development and for exploring the environment

Unit -3

Play activities for developing Communication- language skills: Importance of communication, promotion of language skills- listening, speaking, reading and writing; Activities for language development: conversation, pre-reading, writing skills, songs and rhymes, story telling, riddles.

Literature for children: Need and types; Importance of story telling and techniques of story telling.

Art and creative activities: Significance, types of art activities; Role of teacher in planning the activity, motivating children; Music

Unit -4

Activities to promote mathematical concepts in young children: Development of mathematical concepts; Principles of teaching mathematical concepts

Activities to promote Science: Thinking, observing, inferring, classifying, communicating; Concept formation - differentiation, grouping, labeling; Developing scientific outlook and Role of teacher in some important science experiences.

Practical:

- a. Developing and conducting activities to promote the development of the child.
- c. Developing theme based projects for children (eg.-science concepts and mathematical concepts) and implementing them in pre-school programmes.
- d. Developing educational and play materials for pre-schoolers using indigenous materials.
- e. Developing picture books/story books and rhymes.
- f. Developing and conducting creative art activities for pre-scholars.
- g. Prepare Resource files for children.

Children with Special Needs
[Semester-III Paper-IV]

Unit-1

Introduction to Children with Special Need: Definition and terminology; Types of special children; Children at risk- poverty and gender issues; Genetic and environmental factors in disability; Effect of the disability on the child; Early detection, screening identification; Need for intervention, education, rehabilitation; Role of family and child care worker

Services for Special Children: Prevalence in India; The issues of labeling; Policies and legislation for the disabled; Prevention of the disability; Rehabilitation; Approach towards disability

Unit-2

The Child with mental Retardation: Definition and classification; Causes of mental retardation; Identification; Characteristics; Managing children with mental retardation at home; Special educational measures

Gifted Children: Definition, characteristics of gifted children, identification, special educational measures, role of parents.

Unit-3

Visually Impaired Children: Definition- Blind and partially sighted children; Identification; Causes; Effect of visual impairment on child's development; Special education & training; Role of family in detection, early stimulation and training

Hearing Impaired Children: Definitions - Deaf and hard of hearing children; Classification: Mild, moderate, severe and profound loss; Causes of hearing impairment; Identification, care, early stimulation and education of hearing impaired children; Role of family in detection and child's language development

The Children with communication disorders: Definition and meaning; Classification; Causes; Management and education of children with communication disorders.

Unit-4

The Children with Cerebral Palsy and Orthopedic Disability: Definition and classification; Causes and associated conditions; Identification and integrated education; Rehabilitation of children with physical disability; Role of family in care and early training.

Children with behavioral Disorders: Definition; General causes; Types; Behavioral problems associated with Autism, Attention Deficit Hyper activity Disorder (ADHD), Enuresis; Behavioral problems of children showing excessive anxiety, phobia, temper-tantrums, withdrawal behavior and aggressive behavior.

Practical

- a. Study of etiology, characteristics, diagnosis of children with different disabilities and recording information.
- b. Visit of centres and institutions for special children and recording information and observation.
- c. Writing Reports.

Methods of Studying Human Development
[Semester-III Paper-V]

Unit-1

Approaches to the study of Human Development and their strength and limitations:

Longitudinal Approach; Cross Sectional Approach

Observation Method of Human Study: Naturalistic Observation; Structured Observation; Procedure for collecting systematic observation, establishing reliability in observation, maintaining an observation record; Analysis of the observation

Unit-2

Interview Method Human Development: Types of Interview; Technique of Interviewing; Recording the responses; Analyzing the responses; Methods and limitations of interview

Questionnaire Method Human Development: Types of questionnaire; Development of different types of questionnaire; Analysis of questionnaire data; Merits and limitations of questionnaire method

Unit-3

Case Study Method: Theoretical perspective, Tools and contents of case study, analysis of data

Socio-metric method: Theoretical perspective

Ethnography: Theoretical perspective, Tools of ethnographic method.

Unit-4

Psychometric Method: Theoretical perspective; Types of psychometric tests- Basic Intelligence test, Aptitude Test, Attitude/Rating Scale, Achievement Test.

Projective Techniques: Theoretical Perspective; Merits and limitations of Projective techniques

Practical:

a. Screening and assessment of children for various tools and techniques and writing reports

Discipline II: Food and Nutrition

Clinical and Therapeutic Nutrition

[Semester III Paper- III]

Unit -1

Basic concepts of diet therapy: New trends in delivery of nutritional care and dietary counseling.

Assessment of Patient's needs based on interpretations of patient's data: Clinical, biochemical and personal.

Energy modifications and nutritional care for weight management: Identifying the overweight and obese; Factors contributing to obesity; Low energy diet and behavioral modifications; Under weight – etiology and assessment; High energy diets for weight gain-anorexia, nervosa and Bulimia.

Unit -2

Diets for febrile, infections and surgical conditions.

Etiological factors, symptoms, diagnostic tests and dietary management: Stomach diseases; Gastric and duodenal ulcers; Diarrhea and constipation

Unit -3

Diseases of the Liver: Viral, Hepatitis, Cirrhosis of liver; Diseases of the gall bladder.

Diabetes Mellitus: Classification, symptoms, diagnosis, metabolic changes and management.

Diseases of the Cardiovascular System: Atherosclerosis- Etiology and Risk Factors; Hyperlipidemia- Brief review of lipoproteins and their metabolism; Hypertension.

Unit -4

Diseases of the Kidney: Glomerulonephritis, Nephrotic Syndrome and Renal Failure.

Diseases of Muscular-skeletal System: Rheumatoid Arthritis, Osteoarthritis, Osteoporosis, Gout.

Interaction between drugs and nutrients

Practical:

- a. Planning and preparing of therapeutic diets for patients of different disorders.
- b. Visit to Hospital Kitchen.
- c. Presentation of Report.

Community Nutrition
[Semester III Paper- IV]

Unit -1

Concepts of community nutrition.

Nutritional problems of the community and its implications for public health.

Causes, incidence, signs and symptoms and treatment of PEM, Vitamin A deficiency, Iron Deficiency, Iodine Deficiency, Fluorosis and Lathyrism.

Unit -2

Sociological factors contributing in the Etiology and Prevention of Malnutrition: Food production and availability, cultural influences, socio-economic factors, food consumption and distribution, emergency disaster conditions.

Malnutrition and Infection: Interrelationship between the two, Immunization.

Unit -3

Assessment of Nutritional Status: Meaning, Need, Objectives and Techniques.

Primary Method, Anthropometric measurements, Weight, Height, Skin Fold Thickness, Head Circumference, MUAC, Chest Circumference; Use of Growth Chart; Bio-chemical Assessment; Clinical Method; Dietary Survey - Types.

Unit -4

Secondary Methods: Vital Statistics; Mortality Rates- Crude death rate; infant mortality rate,; maternal mortality rate; survival rate; morbidity rate; fertility rate.

Practical:

- a. Assessment of a community using Rapid Assessment Procedure.
- b. To undertake Dietary Survey by different Methods.
- c. Calculation of food and nutrient intake of a particular class of people.
- d. Determination of Haemoglobin Content in Human.
- e. Anthropometric assessments.
- f. Clinical Observations.

Nutrition and Health Intervention Programmes

[Semester III Paper- V]

Unit -1

Scope of nutrition intervention: Policy framework- Goals and plans for nutrition intervention.
Effects and process of Intervention

Unit -2

Public Health Campaign
Approaches to Interventions
Nutrition Education
Supplementary Feeding Programmes
Economic Intervention

Unit -3

Nutrition Intervention Programmes in Developing and Developed Countries
Nutrition Programmes in India: Role of various agencies- National, International and Voluntary.

Unit -4

Crucial elements of successful community nutrition programmes
Public Distribution System

Practical:

- a. Development, implementation and evaluation of an intervention programme in a community.
- b. Report writing and presentation.
- c. Visit to and Aganwadi and ICDS Centre.

Discipline III: Extension and Communication

Communication Technologies in Extension

[Semester III Paper- III]

Unit -1

Communication Systems: Types of communication systems- concept, functions and significant interpersonal, organizational, public and mass communication. Elements, character and scope of mass communication. Mass communication-models and theories; Visual communication-elements of visual design - colour, line, form, texture and space; Principles of visual design - rhythm, harmony, proportion, balance and emphasis; Visual composition and editing.

Unit -2

Media Systems: Trends and Techniques: Concept, scope and relevance of media in society; Functions, reach and influence of media; Media science in India, issues in reaching out to target groups; Contemporary issues in media: women and media, human rights and media, consumerism and media; Historical background; nature, characteristics, advantages and limitations and future prospects of media; Traditional media vs. Modern media.

Unit -3

Advertising: Definition, concept and role of advertising in modern marketing system and national economy.

Unit -4

Elementary Computer Application in Communication: Introduction to Basics of Computers; Report preparations and presentations; Scanning, Designing and Printing

Practical:

- a. Preparation of Reports with the help of computers.
- b. Evaluation of Advertisements
- c. Writing of Newspaper Story
- d. Preparation and Mock Presentation of Radio/ Television Interviews
- e. Preparation of Digital Library of Photographs

Management of Extension Systems and Programmes

[Semester III Paper- IV]

Unit -1

Concept of Extension Management: Definition, nature and process and need; Models and principles of extension management

Unit -2

Steps in Extension Management: Planning: Meaning and characteristics - elements, policies, strategies, procedures and rules, budgets - planning process, types of plan; Organizing: organizational structure - organizational chart, organizational relationship, formal and informal organization; Coordination - meaning, objectives, linkage mechanisms -involvement of organizations at local level-nonprofit and profit making organization; Staffing - meaning, manpower planning, selection, training and development needs, methods for performance appraisal, organizational conflict and conflict resolution and grievance handling; Motivation – concept and theories; Concepts of management control techniques; Monitoring and evaluation-meaning, purpose and differences, types of evaluation, steps in evaluation, reporting.

Unit -3

Personal Management: *Recruitment of extension workers; Classification of positions*

Efficiency of Personnel: Orientation to new workers; Training of the workers; Stimulus and incentives; Code of ethics; Supervision; Appreciation

Unit -4

Qualities of a good extension manager: Basic qualities and abilities.

Practical:

- a. Study of Management Systems prevalent in the University and nearby Institutions
- b. Preparation of Advertisements for Recruitment
- c. Preparation of Personal Requirements for specific organizations with full justification and budgetary requirements
- d. Arranging Mock Interviews, Group discussions, etc for Recruitment

Training and Development

[Semester III Paper- V]

Unit -1

Training and Learning: Concept of learning and types of learning, factors affecting learning among adults; Types and methods of learning; Concept and goals of training - self-development, action learning, transformation and organizational development, enhancing organizational effectiveness, team spirit.

Unit -2

Training Methodologies: Current trends in training methodologies, organizational development approach, competency based training, participatory training methodologies - aspects, advantages, limitations, implications for training process; Outline of training Administration; Budget and records

Trainer & Trainee Interface: Roles of a trainer, counselor, coach, facilitator, teacher and expert; Competencies of a trainer; Trainer-trainee perceptions

Unit -3

Training Process: Different phases of training, conceptual models of training, systems approach to training: inputs, process, outputs; Training Strategy and Designs: training need assessment, planning training programmes, organizational environment, Training facilities and other resources; Training methods and interaction styles: classification of training methods, their importance, use and Limitations-selecting, appropriate methods to suit situations and circumstances; Evaluation: meaning, purpose, elements of evaluation and tools for evaluation.

Unit -4

Organizational factors and training: Working climate, leadership, values, mechanics of change. Developing organizational structures for facilitating micro and macro level interventions for facilitating development.

Practical:

- a. Designing training programmes for different developmental goals
- b. Developing training lectures and material for specific trainings
- c. Evaluating training programmes
- d. Visit to training and development organizations

Discipline IV: Textile and Clothing

Textiles Testing and Quality Control

[Semester-III

Paper-III]

Unit-1

Importance of Textile Testing and Quality Control

Standardization and testing Conditions: Definitions of humidity, Relative humidity, moisture content moisture region. Standard atmospheric conditions and standard testing conditions.

Quality control charts: concept, use, advantage, control limits.

Unit-2

Fibre Properties: length, fineness, maturity

Strength: Definition, importance of above properties

Methods of determination of above properties: Hand stapling method, fibrograph (for length) Gravimetric, Air flow, Micronaire (for fineness), Direct and indirect (for maturity) single fibre strength and bundle strength (for strength).

Unit-3

Study of Yarn Properties: Yarn Count- Direct, indirect and universal system of yarn numbering, measuring yarn count. (Knowles balance and Quadrant balance); Yarn Twist- Types and amount of twist, effect of twist, determination of twist (single yarn twist tester and continuous twist tester); Evenness of Yarn- Types of variations, Measuring evenness- Uster evenness tester; Yarn Strength- Instron tester.

Unit-4

Study of fabric properties: Testing of fabric length, width and thickness, Shirley thickness tester; Fabric strength- Measuring tensile strength. Tearing strength, bursting strength; Fabric abrasion testing- pilling testing, Stiffness testing; Fabric colour fastness testing- Colour fastness to sunlight, washing and crocking.

Practical:

- a. Presentations, seminars on recent developments.

Fabric Ornamentation

[Semester-III

Paper-IV]

Unit-1

Dyeing: Tie and Dye and Batik; Dyeing with natural dyes, use of pigments; Dyeing auxiliaries and their use; Dyeing defects and their remedies.

Unit-2

Printing: Printing methods- Block, stencil, screen, roller, rotary; Printing auxiliaries, their use and importance; Printing styles- direct, resist, discharge, photographic, transfer, flock printing; After treatment of printed goods.

Unit-3

Embroidery: General embroidery techniques; Hand embroidery- knowledge of 25 hand embroidery stitches; Traditional Indian embroidery- Chikankari, Kasuti, Phulkari, Kashida, Kantha, Kutch, and Kathiawar.

Unit-4

Appliqué Work and Quilting: Appliqué Work- basics, hand appliqué; Machined appliqué, bias tape appliqué, reverse appliqué techniques; Quilting - the art, quilting tools, designs; Basic quilting technique.

Practical:

- a. Sample preparation – Tie-n-Dye, Batik, Printing.
- b. Sample Preparation- Embroideries
- c. Article- Appliqué work/Quilting.

Basic Apparel Construction

[Semester-III Paper-V]

Unit-1

Anthropometrical Measurement: Concept, importance, technique, precautions.

Pattern making: Methods of Drafting, draping, flat pattern, techniques, use.

Unit-2

Commercial pattern: Concept, selection and use of commercial pattern.

Selection of fabrics: factors affecting the selection of fabric for different garments.
Calculating amount of fabric needed for different garments.

Unit-3

Lay out planning: definition, types of lay outs, economy of fabrics in placing patterns, adjusting fabric to patterns.

Fitting: Good fit, definition, principles and clues for good fit, clues for good fit- ease, line, grain, set and balance.

Unit-4

Different types of stitches: Construction and decorative

Different types of seams and seam finish

Practical:

a. Sample Preparation- different types of stitches, seams, seam finishes.

Advance Home Management

[Semester III Paper III]

Unit -1

Concept of Home Management: Definition and philosophy; Role of Home Management in family living; Elements involved in management process planning, controlling and evaluation.

Principles of Home Management: Human values, family and individual goals and standards.

Unit –2

Housing: History of housing –changes in housing needs and standards; Housing in India as affected by trends in population, establishment of households, level of income per house holds, occupation, family mobility and Technological development; Present housing condition in Urban and Rural India.

Unit –3

Landscaping and Exterior Decoration: Introduction of Landscaping and exterior decoration; Concepts of Landscaping and exterior decoration with reference to location & Orientation, climatic condition, Land profile, soil types, water sources, drainage etc; Recent advances in landscaping and exterior decoration-water harvesting, eco-friendly approach, eco-tourism etc.

Unit –4

Money and Time Management: Importance of time management, wise use of time through proper planning, Bringing leisure time under use; Money as a resource, Family income-sources and type; Budgeting-planning of budget, steps in budgeting, purpose and nature of household financial records; Saving-Need, saving option, saving through investments; Household purchase-Need, Planning, survey, advertisements etc.

Practical:

- a. Survey of old and newly constructed houses.
- b. Designing of Home and community gardens.
- c. Time planning for different members of house.
- d. Budget planning for fixed income groups.

Financial Management

[Semester –III Paper-IV]

Unit-1

Financial Management: Concept and Significance.

Working of Finance and Planning Commission
National Income
Wage determination and wage differential
Inflation and deflation

Unit-2

Budget: Concept, Principles, Formulation, Enactment and Execution, Performance; Budget, PPBS, ZBB

Tax Administration in India: Features, Public Debt, Public Revenue, Public Expenditure.

Unit-3

Accounting: Concept, Functions, Accounting Systems, Records, Procedures
Auditing and C & AG

Unit-4

Saving and Investment: Role of Credit in finance; Impact of LPG and Foreign Direct Investment on Trade in India

Management of Energy and House Hold Equipment

[Semester III

Paper V]

Unit-1

Sources of energy and their classifications: Non-renewable vs. renewable sources, alternative sources, conventional vs. non-conventional sources, commercial vs. non-commercial sources.

Energy consumption pattern-national statistics

Unit-2

Energy conservation: Principles of improving the efficiencies of- Combustion, Heat exchange and Energy conservation; Proper uses and maintenance of domestic heating, cooking, lighting and other appliances; Energy conservation in the transport sector.

Unit-3

Basics of house hold equipments: About electricity - Power source, voltage, resistance, current, series/parallel circuits, AC/DC sources; Electrical materials- Conductors, semi-conductors, insulators; Important parts in an appliance - Main Cord, switches, plugs and sockets, controls such as thermostats, light bulbs, heating elements, Motors, Fans & Blowers, Bearings and Bushings, Electronic control systems, Batteries etc.

Unit-4

Product testing for quality: Need, types of testing, equipments required for testing

Safety against household appliances: Definition and classification of safety; Electric shock and its prevention; Quality control - Provisions and norms

Practical:

- a. Survey of available household equipments and appliances in the market.
- b. Study of basic functions and mechanisms of some household equipments such as vacuum cleaner, Refrigerator, Microwave oven etc.
- c. Visit to some petro-companies such as Indian Oil, Bharat Petroleum etc.

SEMESTER- IV

Paper I - Entrepreneurship Management

Paper II- Dissertation (*from Elected Discipline*)

Discipline I: Child Development

Paper III (Elective)- Family Guidance and Counseling

Paper IV (Elective)- Management of Programmes for Children and Families

Paper V (Elective)- Human Development: Theories and Current Trends

Discipline II: Food and Nutrition

Paper III (Elective)- Food Processing and Technology

Paper IV (Elective)- Food Quality Analysis

Paper V (Elective)- Institutional Food Administration

Discipline III: Extension and Communication

Paper III (Elective)- Gender in Extension and Development

Paper IV (Elective)- Community Health Management

Paper V (Elective)- Media and Extension

Discipline IV: Textile and Clothing

Paper III (Elective)- Advance Apparel Construction

Paper IV (Elective)- Fashion Designing and Communication

Paper V (Elective) Textile Management

Discipline V: Family Resource Management

Paper III (Elective)- Residential Interior Designing

Paper IV (Elective)- Consumer Economics

Paper V (Elective):- Resource Management

Each discipline will require:

Paper VI (Practical): Related to Elective Papers

Entrepreneurship Management

[Semester IV

Paper I]

Unit-1

Entrepreneurship Management: Concept, need and process of entrepreneurship development. Types of enterprise

Role of Enterprise in National and Global Economy: Government policies and schemes for enterprise development. Institutional support in enterprise development and management

Unit-2

Entrepreneurship motivation and competency: Important features of entrepreneurial personality.

Launching an enterprise: Environment scanning, enterprise selection, market assessment.

Unit-3

Resource mobilization, costing and monitoring, evaluation

Performance appraisal and assessment

Profitability and control measures

Unit-4

Market economy: Basic definitions, types of market, marketing mix, marketing environment

Strategic Planning and Marketing steps: Product development, promotion and distribution.

Practical:

- a. Preparing Project Proposal to start a new enterprise and feasibility report.

Paper II - Dissertation (from Elected Discipline)

Discipline I: Child Development

Family Guidance and Counseling

[Semester-IV

Paper-III]

Unit-1

Basic differences in guidance, advice, counseling and therapy.

Basic concept, meaning, definition, nature, scope of family guidance and counseling

Guidance and counseling needs of individual and families systems.

Unit-2

Principles and objectives of family guidance and counseling.
Theories and approaches of guidance and counseling.
The Indian approach- meditation and yoga exercises.

Unit-3

Types of counseling
Qualities and skills of a counselor.
Evaluation of guidance and counseling.

Unit-4

Nature of psychological disorders at different stages that require counseling:
Childhood, Adolescence and Youth, Adulthood and Old age
Principles of counseling and therapy: Approach to counseling at different developmental stages, Family therapy approach.

Practical:

- a. Visit to the schools, women's centers, family guidance counseling institutions, interactions with councilors and therapists.
- b. Observation the counseling sessions and reporting the observation
- c. Identifying families with problems.
- d. Learn about the counseling process, role-play, and mock sessions.

Management of Programmes for Children and Families

[Semester IV

Paper IV]

Unit-1

Management: Definition and meaning; The Management Process- Planning, Controlling, Organizing, Motivation and Leadership, Decision Making; Management Skills; Role, Characteristics and Functions of Supervisors; Evaluation

Unit-2

Obtaining Funds and Formulating a Budget: Government funding; Other Sources of funding; Budget of a Child Care Centre

Unit-3

Programmes for Children: Rights of Children; Need for Child Welfare Programmes and policies- National Policy for Children; Specific programmes for Children related to health, Nutrition, Education and their Management.

Functionaries of Child Welfare and Development Programmes in India: Ministries/Departments/Autonomous bodies; International agencies

Unit-4

Family Welfare Programmes: Concept, need and scope of family welfare; Constitutional Provisions; National Family Welfare Policy; Specific programmes for family and their management; Agencies and Organizations working for welfare of families

Practical:

- a. Observational visits and developing detailed reports of the various institutions and organizations working for family and child welfare.
- b. Developing welfare projects for areas concerned with health, nutrition and education.
- c. Monitoring and evaluation of services for family and child welfare.

Human Development- Theories and Current Trends

[Semester IV

Paper V]

Unit-1

Early Theories

Psychological Theory- Sigmund Freud

Psychological Theory- Erik Erikson

Unit-2

Social Learning Theory- Albert Bandura
Learning Theories- Pavlov and Skinner

Unit-3

Cognitive Development Theory- Jean Piaget
Socio-Cultural Theory of Cognitive Development- Vygotsky

Unit-4

Kohlberg's Moral Judgement Theory
Ecological Theory- Urie Bronfenbrenner
Recent Theoretical Perspectives of Human Development

Practical:

- a. Group Discussions: Various Theories of Human Development and Crises Management
- b. Resource file-Collection of element articles, picture, tests about theories theorists, philosopher, thinkers, psychologist, educationists (related to Human Development).

Discipline II: Food and Nutrition

Food Processing and Technology

[Semester IV Paper- III]

Unit -1

Introduction: Brief review of main food crops grown in the country – their nutritional importance.

Food and its preservation (Home and Community Level including commercial operations): Cause of food spoilage; Needs and benefits of Food Processing and Technology for Food Preservation.

Fresh Food Storage: Principles; Plant product storage; Animal product storage.

Physical principles in food processing operations: Thermal processing (Use of heat); Types of heat treatments; Heat resistance of micro-organisms.

Unit -2

Refrigeration (Use of low temperature): Refrigeration and freezing – methods, principles and applications; Freezing and its effects of food components and structure; Shelf life of frozen foods.

Drying and dehydration: Types of foods – traditional and new food products; Principles and applications; Home, community and commercial methods of dehydration; Effect on food quality.

Food Irradiation: Technology and application.

Pasteurization: Methods and applications.

Unit -3

Chemical Principles of Food Processing: Preservation/ processing by sugar, salt, curing, smoke, acids and chemicals.

Principles and methods used for various products such as pickles, chutney, ketchup, sauces, fruit juices, squashes, fruit syrups and cordials.

Traditional methods of processing Cereals and pulses: Products such as par-boiled rice, rice flakes, puffed rice, chana etc; Wheat processing- variety of baked products, baking process- basic concepts; Pulse processing methods – removal of toxic factors, fermentation and germination.

Unit -4

Fruit and vegetable processing methods and products

Milk Processing: Classification, standardization, homogenization and packaging.

Meat, fish and egg processing: Methods and products; Ageing ; tenderizing; curing; smoking; freezing.

Food additives: Classification and products

Nutritional Implications of Food Processing: Causes for loss of vitamins and minerals; Enrichment, restoration and fortification.

Practical:

- Advance Diploma Courses may be arranged for the students for Food Preservation and Bakery and Confectionery.
- Visits to food processing units such as Dairy, Cold Storage Plant and Preservation Centres.

Food Quality Analysis

[Semester IV Paper- IV]

Unit -1

Importance of food standards: Quality control and assurance.

Food standards, laws and regulations to ensure safety of food: Prevention of Food Adulteration Act, 1954; Essential Commodities Act, 1955; Fruit Product Order, 1946; Directorate of Grading, Marketing and Inspection of Agricultural Products; Bureau of Indian Standards, 1952; Standards Weights & Measures Act 1976.

Unit -2

Product Evaluation: Sampling for product evaluation; Sample preparation

Tests for specific raw food ingredients: Proximate Principles; Nutrient Analysis.

Unit -3

Hazards to Food Products: Micro-biological, environmental, natural, toxicants, pesticide residues and food additives.

Food Adulteration: Common Adulterants; Methods and Tests for detecting Adulterants.

Unit -4

Sensory Analysis: Definition; Use in Product Evaluation.

Types of Tests: Discrimination/ difference test- Paired test, Triangle test and duo-trio test; Tests for multiple samples, difference from control/ reference.

Quantitative Difference Tests: Ranking; Numerical Scoring Test; Magnitude Estimation.

Descriptive Tests

Threshold Tests

Acceptance Tests

Determining consumer acceptability using sensory evaluation.

Practical:

- a. Sensory Evaluation of Foods
- b. Designing of Questionnaires and evaluation score cards.
- c. Testing of food adulterants in different foods.
- d. Proximate Analysis.

Institutional Food Administration

[Semester IV Paper- V]

Unit -1

Introduction to Food Service Systems: Characteristics of various types of food service units.

Strategies in Planning: Conceptual Strategy; Marketing Strategy; Financial Strategy.

Unit -2

Management of Resources: Finance; Determining the finance needed to establish or run a unit; Budgets; Sources of finance; Planning adequate cash flow.

Space for Equipment : Steps in planning layouts; Determining equipment; Selection & Placement; Maintenance of equipment; Layout analysis

Unit -3

Material: Menu Planning suitable to different systems; Recipe development & Standardization of yields.

Staff : Manpower planning; Manpower placement; Recruitment, induction, motivation & performance appraisal

Unit -4

Cost accounting/ Analysis: Food cost analysis; Records to be maintained; Report & trend analysis; Marketing & Sales Management; Marketing strategies; Sales analysis; Market promotion.

Practical:

- a. Evaluation of food Service Units
- b. Market survey of food service equipment
- c. Planning menus for quantity- Banquet, outdoor catering, packed Meals, Restaurant.
- d. Standardizing recipes for quantity-100; 250; 500
- e. Cost Analysis of Menus in- College Canteen, Hostel Mess, Hospitals.

Discipline III: Extension and Communication

Gender in Extension and Development

[Semester IV Paper- III]

Unit -1

Gender and Development: Concept of gender, gender roles, changing trends, gender analysis matrix; Shift from welfare to development and empowerment, gender in development, gender and development; National and international efforts for gender empowerment

Unit -2

Status of Women: Status- meaning, status of women-a situational analysis, demographic, education, employment, political and health (general, occupational and reproductive); Changing scenario.

Violence Against Women: Dowry, divorce, female foeticide and infanticide, domestic violence, sexual harassment and exploitation, portrayal of women in mass media; Efforts for elimination of all forms of discrimination.

Unit -3

Policies and Programmes for Women's Development: National Policy for Empowerment of women, policy perspectives, mainstreaming, a gender perspective in the development process; Economic empowerment: poverty eradication, micro-credit, self-help groups, women and agriculture, women and industry and support services; Social empowerment: education, health, nutrition, drinking water and sanitation, housing and shelter, environment; Legal empowerment: legal literacy on personal and family laws, role of family court and legal aid centers; Political empowerment: role of panchayatiraj in the political empowerment of women.

Unit -4

Support System: Role and functions of the Department of Women and Child Development, Central Social Welfare Board, State Social Welfare Boards, National Commission for Women, Women's Development Corporation.

Practical:

- a. Study of women's status in a community
- b. Identification of women's problems in a community
- c. Preparation of an album on women's issues.
- d. Visit to Women Welfare Organizations.

Community Health Management

[Semester IV Paper- IV]

Unit -1

Concept of Health and Health Care: Concepts of health and positive health, definitions of health; Health – factors affecting health, health as a human right; Concept of community health and global health, health for all; Primary health care - definitions, principles, components, comprehensive health care, levels of prevention, concept of reproductive health.

Health and Development Indices: Health indices and related indices in community health, fertility indicators, demographic indicators – sex ratio, social and mental health indicators; Human Development Index; Reproductive Health Index.

Unit -2

Community Health Needs and Problems: Health needs and problems related to sanitation and environment, protected water, personal hygiene and pollution control; Ecology and environment, global warming-causes, effects and prevention, natural and man made disaster management; Health needs of special groups-women, infants, children; Major health problems in India; Communicable and non-communicable diseases; Population problem and its impact; Problems of malnutrition; Reproductive health problems.

Unit -3

Health Care Services: Health administrative set up - state, national, urban, rural, private; Role of NGOs in health services; Importance of National Health Programmes; Child survival and safe motherhood; Importance of Child Health and related programmes; Health in relation to community development; Important National and International Health Agencies; Health Information, education, communication.

Unit -4

Management of Information System in Health Sector: Health surveys; Monitoring health; Health regulations and acts, health legislations; Census; Evaluation of health services.

Ecology and Environment: Cause, effects and prevention of global warming; Concept of natural and man made disasters.

Practical:

- a. Identification of Health needs of special groups - infants, young children and adolescents, women, Elders, etc.
- b. Preparation of Health Survey Schedules for different groups
- c. Visit to Hospitals and Organizations related with Health

Media and Extension

[Semester IV Paper- V]

Unit -1

Theories, types and roles of Media: Theories and models of mass communication; Role of media in communication process; Various types of media for communication; Various constraints in the use of media; Criteria in selection and use of various media

Unit -2

Media planning for social advertising: Social advertising and commercial advertising – definitions, need and scope; Social advertising – programme designing, selection of media, impact assessment of each mass media for different campaign types for different target groups, economic, technical and social considerations in social advertising.

Unit -3

Development Journalism: Growth, nature, scope and significance; Need for development journalism; Issues and problems for media professionals.

Print Media: Trends in print media; Role of press as mass media; Press Laws in India – History and present scenario; News – its meaning, concept, news agencies, writing of news.

Unit -4

Electronic Media: Trends in Radio, Television and Cyber Media; Impact and policies; Future challenges and scope of electronic media.

Media Research: Need, rationale, scope and approaches.

Practical:

- a. Operations of Various Audio-Visual Aids: Over Head projector, Slide Projector, LCD Projector, Tape Recorder, Computer, etc.
- b. Preparation of Pamphlets, Invitations, Leaflets, etc.
- c. Visit of Newspaper Office, Printing Press, etc.
- d. Impact assessment of articles/ campaigns on adoption of innovations.

Discipline IV: Textile and Clothing

Advance Apparel Construction

[Semester-IV Paper-III]

Unit-1

Cutting and making the fabric

Basic bodice block: Child and adults, sleeve blocks- child and adult's plain sleeve block, basic fitted skirt block

Unit-2

Different types of sleeves, collars and skirts, pockets, pleats, tucks, waistbands construction (any five of each)

Different types of yokes, necklines, basic silhouettes

Unit-3

Dart Manipulation: From armhole, shoulder, neckline

Adaptation of basic drafting to the required design

Unit-4

Pattern Alteration: Plain sleeve-length and width alteration. Plain Skirt- length alteration, alteration for prominent abdomen or hips. Width alteration- increase and decrease up to two inch and above 2 inch.

Alterations for fitting: any 15 problems of fitting with reference to shoulder, neckline, armhole, skirt and overall garments and their remedies.

Practical:

- a. Sample preparation: blocks- child and adult's bodice block, sleeve below- child and adult's plane sleeve.
- b. Sample preparation- different types of sleeves, pockets, pleats, tucks, waistbands (5 each).
- c. Sample preparation- Different types of yokes, necklines (5 each).

Fashion Designing and Communications

[Semester-IV Paper-IV]

Unit-1

Principles and elements of art in dress designing

Study of clothing requirements for: Special figure types- short figure, thin figure, slender figure, narrow and broad shoulder large and flat chest, large and flat hips, large abdomen, long and short neck; Special conditions- maternity, lactation, old age, physically challenged.

Unit-2

Sketching and dress designing for: Special figure types; Special needs/ conditions; Special purpose/occasion- at home, school, work, shopping, Birth day party, Wedding party, festival, bridal.

Developing a line of garments based on a theme (any three of following): beach wear, casual wear, sports wear, night wear, evening wear, executive wear, traditional Indian Costume.

Unit-3

Fashion: Definition, history, elements, terminology, cycle, factors affecting fashion, fashion sources, fashion trends in India and abroad.

Fashion communication: need for promotion of fashion, need for the communication process, communication through different media- written, visual.

Unit-4

Computer aided designing: Concept, Introduction to pattern making software, knowledge of pattern making programmes. Use of computer application, making patterns for different garments and requirements.

Practical:

- a. Sheet preparation- dress designing according to theory syllabus.
- b. Portfolio development on a special theme.

TC-4.3: Textile Management

[Semester-IV

Paper-V]

Unit-1

Role and importance of Textile and Garments Industry in Indian economy

Problems and prospects of textile and garment industry
Textile policy under 5 year plans.

Unit-2

Textile industry management: Management hierarchy, responsibilities, coordination, organization, management aids, factors influencing management organization.

Comparative organization of different textile groups: Organization of senior management, organization of productive functions, Departmental management organization.

Unit-3

Production management: Purpose of production planning and control; Methods of production planning and control.

Role of standards in quality control: Framework of control. Organization and techniques of control

Unit-4

Export procedure and distribution channels used to reach foreign market.

Import and export policies of Indian government.

Recent trends in textiles

Practical:

- a. Presentation and seminars on special topics.

Discipline V: Family Resource Management

Residential Interior Design

[Semester IV

Paper III]

Unit-1

Elements of art and principles of design with reference to interior designing
Terminology used in interior designing, technical drawing and graphic presentation.

Unit-2

Materials and methods of interior construction
Planning and prioritizing the space
Connecting the Space.

Unit-3

Fixtures and finishes, Lightings
Furniture design and furnishing
Accessories in interior designing: Gardening, sculpture, paintings, flower arrangement.

Unit-4

Designing of Living space; Kitchen; Sleeping space; Children's room; Bathroom.

Practical:

a. Designing sheets and models.

Consumer Economics

[Semester IV

Paper IV]

Unit-1

Concept of consumer economics- consumption, field of consumer economics: Consumer and his wants; Origin of human wants; Characteristics of wants; Classification of wants; Demand: Determinants, elasticity.

The theory of consumer behavior: *The central problem of choice; The utility solution; Diminishing marginal utility and law of equi-marginal utility; Factors affecting choice are decision making.*

Economy system: *Purpose; Type of economic system; Indian economy- characteristics*

Unit-2

Market and marketing: Concept, classification-function, types-wholesale, retail etc.; Marketing environment, Marketing theories-models Marketing strategies-concept, types based on product, seller, demand, media mix, price promotion and policy.

Market and Market prices: Definition and types of Market prices; Pricing under perfect and imperfect competition and monopoly.

Unit-3

Consumer credit: Definition; Types of credits; Factors affecting consumer credit decisions; Sources of consumer credit

Unit-4

Consumer protection: Government protection; Public protection; Standardization of consumer goods and testing methods.

Practical:

- a. Visit to different types of Markets – organized, unorganized, local, weekly, etc
- b. Survey of Consumer Forum for Learning the Working of the Forum
- c. To survey the Banking Procedures for Consumer Credit.

Resource Management

[Semester IV

Paper V]

Unit-1

Management of Human Resources: Principles of human resource use; Motivation vs. Productivity; Training for personality development and leadership; Efficiency – definition and factors affecting efficiency

Unit-2

Management of Environment: Definition and scope of environment studies; Natural Resources-conservation and sustainable development; Population and environment; Environment in relation to Public Health-Environment pollution and community health, water-borne diseases, Air borne diseases, chemical insecticides and its impact on health, other toxic agents.

Unit-3

Professional Management: Introduction; Concepts of professional Management; Aspects of Professional Management – Office Management, code/conduct, Duties of employees under various provisions; Professional relations, duties and liabilities in profession.

Unit-4

Current Trends in Resource Management: Socio-economic environment impact on families and organization; Consumer Protection; Scientific writing as a means of communication – Different forms of scientific writing such as articles in journals, Research notes and reports, Review articles, Monographs, Dissertations, Review articles, Monographs, Dissertations, Bibliographies; Role of women in Environment Protection.

Practical:

- a. Personality Development Games – Organization and Interpretations.
- b. Survey of specified area for quantification of pollution problems.
- c. Preparations of Reports for Waste Management and Pollution control.
- d. Visit to government/ non-government organizations to survey professional management practices.