MAIN COURSES
B.Sc. (HOME SCIENCE)
SECOND YEAR
GROUP-A

Paper	Name of the paper	Theory	Practical	Total
Paper-I	Extension management and communication Technology	60	40	100
Paper-II	Introduction to textile	60	40	100
	Total			200

GROUP-B

Paper	Name of the Paper	Theory	Practical	Total
Paper-III	Human Development-I	60	40	100
Paper-IV	Resource management	60	40	100
	Total			200

GROUP-C

Paper	Name of the Paper	Theory	Practical	Total
Paper-V	Principles of Nutrition	60	40	100
Paper-VI	Empowerment through entrepreneurship development	60	40	100
	Total			200

SECOND YEAR
PAPER-1
COURSE TITLE: EXTENSION MANAGEMENT AND COMMUNICATION TECHNOLOGY

Catalogue Description: Introduction of extension education, Different extension teaching methods, Development of extension education in India, communication process, sutdy of audiovisual equipments, preparations and use audio visual aids commonly used by extension workers. Participatory Rural Appraisal and Rapid Rural Appraisal techniques and women empowerment.

Objective: To enable students to:

1. Understand principles of extension and community.
2. To develop an understanding of communication process.
3. To know about RRA and PRA Techniques.

Syllabus **Theory** **Marks:60**

S.No.	Theory Title
1.	Meaning principle, scope, philosophy and objectives of extension education.
2.	Role and qualities of extension, worker, teacher, subject specialist characteristics of teaching and learning in extension education.
3.	Extension teaching Methods Individual contact Methods:- Form and home visits, personal letters, telephone calls, Group contact Methods:- group meetings, group discussions, Method Demonstration, Result Demonstrations. Mass contact Methods:- Radio, Television, News papers, Exhibitions. Extension literature:- leaflets, bulletins, circular letters, newsletters, wall newspapers, posters. Selection, use and combination of teaching methods.
4.	Different extension education and community development programme. extension education development in India.
5.	Defined communication, Methods of communication, types of communication, Elements of communication, qualities of key elements of communication, classification of communication media- Audio, Visual, Audio-Visual. The SMCRE communication process. Application of communication concepts, Seven c's of effective communication.
6.	RRA (Rapid Rural Appraisal) and PRA (Participatory Rural Appraisal)
7.	Women empowerment, meaning, definition, process of empowerment, Dimensions of women empowerment, empowering women through SHG's and other methods.

Syllabus **Practical** **Marks:40**

S.No. **Practical Title**

1. Practice of form and home visit.
2. Practice of organizing group meeting.
3. Practice group of discussion.
4. Layout and conducting method demonstration.
5. Layout and conducting result demonstration.
6. Practice soft speech making and evaluation.
7. Writing for Radio.
8. News stroy writing.
9. Writing of circular letter.
10. Design and production of chart, poster leaflets and bulletins.
11. PRA-tool development and report presentation.

References Books:

1. Extension education for Human Resource Development- Birendra Kumar and B.S. Hansera.
2. Extension strategy for agricultural development in 21st Century- R.K. Samanta.
3. Rural Development in India-Kartar Singh
4. Extension and Rural welfare-O.P.Dahma
5. Extension education in community Developments by Directorate of Extension, MOA Govt. of India.
6. A hand book of Extension Education B.K. Chaubey, B.B. Rai, J.P. Srivastava-Jyoti Prakashan 29, Allahabad Agricultural Institute Allahabad.
7. An Introduction to extension education- S.P. Supe published by Mohan Primlani for oxford IBH publishing co. Pvt. Ltd., 66 Janpath New Delhi.
8. Participatory Rural Appraisal-Robert chamber.

Second Year

Paper-II

Course Title: Introduction to Textile

Catalogue Description: Structure, properties and identification of textile fibers, yarn and its formation, laundry and care of textiles, laundry care of fabric, traditional costumers in India, selection of cloths.

Objectives:

1. To gain knowledge of textile fibres, their classification and properties.
2. To gain knowledge about fabric construction and fabric finishes.
3. To learn about care of fabrics.
4. To know about selection of cloths.

Syllabus **Theory** **Marks:60**

S.No. **Theory Title**

1. Classification of textile

a. Introduction and classification of textile fiber terminology in textiles.

b. History, composition, types, production, properties and use- Cotton, Linen, Wool, Silk, Rayon, polyamides, polyester and Acrylic fibers.

2. Study of Yarns:

Methods of spinning, simple, novelty, metallic and textures yarns, stretch, corespun, bi and multi component yarns-characteristics. Yarn numbering system (Cotton count, Denier, Tax-conversion from one to the other).

3. Finishes, types of Weave

a. Physical-singeing,shearing, napping, brushing, sizing, shrinking, tendering, calendaring, etc.

b. Chemical-bleaching mercerizing, etc. Special purpose finishes- wrinkle resistant, ant pilling, dyeing and printing, etc.

4. Laundry care of Fabric:

Study of laundry reagents, Water hardness effect of washing; Soap making, washing Soda, Washing Soap, Cakes and soap powder.

Study of laundery, equipment and its care. Principle of stain removal. Principle and methods of laundering, their application to various fabrics, common flats of washing to cotton, woolen, silk and synthetic fabrics, plastics, rubber,leather disinfections of clothing.

Dry cleaning methods

5. History of costumes in India, selection of fabrics for garments family clothing selection and storage.

History of traditional costumes of India, selection of fabrics based on personality, age, sex,occasion, fashion, health consideration, financial conditions, climate, occupation, quality, finish and cost.

Factor effecting clothing needs budget for clothing, Selection of the clothing for the family. Factors that control price to fashion advertising. Production costs, World condition, availability, inflation, wardrobe planning.

Comparative study of ready made, tailor made and home made clothing.

Garments or items based on quality. Suitability and price, storage of different fabrics.

6. Selection of clothes:

a. Factors affecting clothing needs of the family.

b. Selection of cloths for children- Infants and preschool children.

c. Selection of cloths for school going children and adolescents.
d. Selection of cloths for adult, middle aged.
e. Selection of clothes of different occasions and seasons.

7. Design and its Application of clothing.

a. Elements of design-color, line, form & light & texture.
b. Appropriate use of color, line & texture to figure, size & complexion.

Syllabus **Practical** **Marks:40**

S.No.	Practical Title
1.	Identification of Textile Fibers.
2.	Visual, microscopic, burning and chemical test.
3.	Identification of Yarn types.
4.	Identification of weaves and their variations.
5.	Sample collection for weaves and finishes and identification.
6.	Preparation of Whitening and stiffening agents, soap making.
7.	Stain removal, washing same as that for theory paper.

References:

1. Corbman, B.P. (1985): Textile Fiber to Fabric, McGraw Hill New Yark.
2. Hollen, N. and Saddler, J: Textile Latest Edn, Macmillan & Co. New York.
3. Joseph, ML. (1976): Essential of Textiles, Holt Ripenhart of Winston, New York.
4. Joseph, ML. (1972): Introductory Textile Science, Holt Ripenhart of winston, New York.
5. Tortora, P.G. (1978): Understanding Textiles, New York, Mac Millan Publishing Inc.
6. Wingate, I.B. (1976): Textile Fabrics and their Selection, Eaglewood Cliffs (New Jersey), Prentice Hall, Inc.

Second Year
Paper-III
Course Title: Human Development-I

Catalogue Description: The course deals with sequential stages of development throughout life span from conception to old age.

Human Development stages, prenatal care, care of new born, Techniques of child study, national and international agencies working for family & Child, Children rights, national policy deprived and abused children.

Objectives: To enable Student to : Gain knowledge about human reproductive system (male and female).

Develop the scientific knowledge towards pregnancy and child birth.

Syllabus **Theory** **Marks:60**

S.No. **Theory Title**

1. Meaning and scope of child Development. Allied field related to child Development. Theories of child development i.e. psychoanalytic, behavioristic and cognitive theory.
2. Human reproductive System (Male & Female, Physiology)
3. Meaning of growth and development, principles of development, difference between growth and development.
4. Heredity-transmission, role in the development, environment and environmental influences, role of environment in the process of development, conception, chromosomes and genes, sex determination. Multiple birth, twins, triplets.
5. The Mutations-Pattern of Prenatal development, menstrual cycle, fertilization, stages of Prenatal Development, factors affecting Prenatal development, birth process.
6. Prenatal Care-Specialized Test, signs and symptoms of pregnancy, care of expectants mother, Discomfort of pregnancy. Preparation of mother for new born (psychological and Physiological)
7. Care of newbonr, care during pauperism, immunization. Postnantal environmental factors that affect the development of the individual after birth.
8. Techniques of child study, need and importance, observation, case study, interview in fast testing, questionnaire and psychological test.
9. Child rearing practices relative merits and demerits, common ailments and its causes treatment and prevention.
10. Early childhood education its meaning and importance, family and child, welfare services working at national and internaitonal level CSWB. ICCW, UNICEF, NIPCCD, NCW.
11. Children's rights and national policy for children, Children with special needs. Deprived children and abused children.

Syllabus **Practical** **Marks:40**

S.No. **Practical Title**

1. Visits to maternity and well baby clinics.
2. Record file on prenatal and infant care.
3. Take any one article for a new born child.

Reference Books:

1. Schaumburg, L.B. (1988) Child and adolscent Development, Mac-Millan Publishing Company, New York.
2. Papalis, DE and olds, SW (1978) Human Development, Mc Graw Hill, New York.

3. Gordon, K.J. (1975) Human Development: A Transactional Perpective, Harper & Row publishers, New York.
4. Grinder, R.E. (1993) Adolescene, John Wiley & Sons, New York.

Second Year

Paper-IV

Course Title: Resource Management

Catalogue Description: Management process, factors motivating management, family finance-introduction of various income concepts; money- a crucial resource for economic welfare, definition of consumer and economic system, markets and merchandising, consumer right & protection.

Objectives:- To enables students to:

Understand the meaning of Home-management, Develop ability to solve personal management problems, Recognize the importance of wise use of resources in order to achieve one's goals.

Apply the principle from science to personal family finance/ management.

Syllabus **Theory** **Marks:40**

S.No. **Theory Title**

1. Introduction to management- Basic concepts of management, purpose of management.
2. Obstacles to the Improvement of management:
   a. Lack of awareness of management.
   b. Lack of awareness of resources.
   c. Failure to evaluate result of management.
   d. Seeking ready - made answer to problems.
   e. Lack of information.
3. Family characteristics Influencing Management.
4. Factors Motivating management- Detail of Goals, Values, Standard, Decision making.
5. Managment Process:
   f. Meaning and elements of process, planning, controlling the plan and evaluating, decision making.
   g. Planning-Importance, Techniques, Types of Plan
      (I) Controlling the plan in action
      (II) Phases energizing checking
      (III) Supervision of delegated plan
      (IV) Evaluation - Importance, relationship to goals.
6. Standard of living: Meaning and definition, measurement of standard of living, determinant factors of standard of living, causes of low standard of living and remedial measures.

7. Family income- meaning and definition, types of income-money income, real income, productive income, regular income & hidden income, factors affecting fluctuations in real income.
8. Family expenditure-meaning, types of expenditure, voluntary and compulsory, family life cycle and needs for finance in each stage.
9. Budget-meaning and definition, types of budget, budgeting as a guide to moeny management, factors influencing budget.
10. Household account keeping-Importance and ways of keeping accounts, types of accounts.
11. Saving- meaning, types of savings, institutions available for saving.
12. Family credit-meaning & types of credit, credit for personal and family finance, sources of credit for family.
13. Credit instruments- Meaning & types of credit instruments, cheques, drafts, bills of exchange and promissory notes.
14. Insurance- Meaning, principles & types of insurance - life insurance & general insurance, advantages of insurance.
15. Taxation-objective, characteristics, classification of taxes, system of taxation.
16. Consumer and the economic system
    h. Basic concepts of consumer economics and factors influencing consumer demand.
    i. Economic development and consumer aspirations.
    j. Change in economic policies and their impact on consumers.
17. Market and Merchandising
    a. Structure and functioning of consumer retail markets and pricing process
    b. Multinational trade and implications for consumer welfare in India.
18. Consumer's information environment and mass media.
    k. Different sales promotion techniques.
    Impact of advertising and marketing on consumption and consumer resource allocation and welfare.
19. Consumer rights, responsibilities in today's world.
20. Consumerism and consumer protection.
    a. History of consumer movement in the development and developing countries.
    b. Consumer protection and govt. legislation-Act and orders.
    c. Govt. and NGO for consumer protection and welfare.
21. Standard and standardization and logiclative measurers for regulating quality.

Syllabus **Practical** **Marks:40**

S.No. **Practical Title**

1. To find out different saving and investment scheme and to collect related literature from banks, post office, life insurance and other Institutions.
2. To find out maintenance of household accounts of different income group families.
3. To find out rate of interest of different saving and investment schemes.

Reference Books:

1. H.F. Bigelow: Family finance
2. J.K. Mehta: Fundamentals of economics
3. M.L. Seth Modern economics.
4. Nickell and Dorsey: Managment in family living
5. Lok Vitt - S.K. Singh
6. Gordon, Lee (1972). Economics for consumers. D.Van Nostrand company, New York.
7. Demand forecasts for consumer goods by National council of applied economics Research. Asia Publishing house, New Delhi.

Second Year

Paper-V

Course Title: Principles of Nutrition

Catalogue Description: Determination of nutrition requirement, Biochemical aspects of nutrition.

Community nutrition, national & international agencies. Principles of nutritional Therapy in chronic and acute illness.

Objectives:

Develop scientific attitude toward food consumption in every day life.

Develop scientific basis for planning diets for chronic and acute illness.

Syllabus **Theory** **Marks: 60**

S.No. **Theory Title**

1. Minimal nutrition requirement and RDA - Formulation of RDA and dietary guidelines, Reference Man and reference women.
2. Proteins - Assessment of protein quality (BV, PER, NPU), Digestibility coefficient, chemical score, Digestion and absorption, requirements, deficiency.
3. Carbohydrates:- Metabolism- Glycolysis, Citric Acid cycle, metabolism of Glycogen-Gycogenesis, Glycogenolysis, Gluconeogensis in short, Digestion and absorption.

4. Dietary fiber - classification, compostion, properties and nutritional significance.
5. Mineral & Trace Elements- Functions, sources, Deficiency & Excess (Calcium Phosphorus, Iron, Fluoride, Iodine)
6. Water- Functions, requirements.
7. Community Nutrition: Public health aspects of nutrition, nutrition education, applied nutrition programmes, Assessment of nutritional status, Diet surveys.
8. National and international agencies ICDS, WHO, UNICEF, FAO, UNDP, USAID, CARE etc.
9. Diet in cardiovascular Diseases: Hypertension, atherosclerosis
10. Diet in peptic Ulcer, Symptoms, etiology, dietary modification.
11. Diet in Liver Diseases: Cerosis, Jaundice, Hepatitis
12. Diabetes Mellitus: Definition of Glycosuria, Diabetes mellitus, GTT, Types, Symptoms, Complications.

Syllabus **Practical** **Marks:40**

S.No. **Practical Title**

1. Planning and preparation of dishes in energy, protein, Fat, Fiber, Calcium, Iron, Vit-A, Vit-C, Thiamine, Riboflavin, Niacin.
2. Planning & Preparation of diet in different diseased condition.

Reference Book:

1. M. Swaminathan - Vol. II
2. Normal & Therapeutic nutrition-Robinson
3. Dietetics - B. Shrilaxmi
4. Raheena Begum (1989): A test book of foods, nutrition & dietetics.

SecondYear

Paper - VI

Couse Title: Empowerment Through Enterpreneursip Development

Catalogue Description: Enterpreneurial quality and motivation, environmental scanning and opportunity identification; infrastructure and support systems, procedures and steps involved in launching and enterprise; planning of an enterprise, project identification, selection and formulation, project report preparation, enterprise management; production and materials management, personal management, Financial management and accounting, marketing management, management of crises.

Objectives:

1. Gain knowledge about empowerment through enterpreneurshp developement.

Syllabus **Theory** **Marks:60**

S.No. **Theory Title**

1. Entrepreneurial quality and motivation- Enterpreneurship,

enterpreneur and enterprise entrepreneurial qualities, assessing entrepreneurial qualities
- Entrepreneurship development
- Conceptualizing entrepreneurial skills and behavior
- Achievement motivation and goal setting

2. Environmental scanning and opportunity identification
- Methods, sources and types of opportunity
- Assessment criteria and profilling opportunities

3. Infrastructure and support system
- Industrial support agencies
- Procedures and steps involved in setting up an enterprise.
- Whom to contact for what
- Schemes of assistance
- Sources of information and industry organizations

4. Project planning and formulation
- Project identification and product selection
- Project identification - Generating project ideas, short listing, final selection.
- Market survey, Market alternatives, an overview of the future
- Product development
- Product selection
- Preparation of project report
- Launching the enterprise
- Project formulation and report preparation
- Pre-feasibility and feasibility
- Project size and investment magnitude estimation
- Selection of appropriate technology
- Cost estimation
- Technical, financial, commercial and economic viability
- Project scheduling
- Report preparation
- Project implementation and related issues

5. Enterprise management
- Basic management concept
- Personnel management
- Product management
- Materials management
- Financial Management and accounting
- Marketing management
- Crises management
- Industrial management and business laws
- Laws Governing business operation

Indian Contract Act
Sale of Goods Act

6. Interaction with successful entrepreneurs
Law Governing Taxation: Negotiable
Instruments Act Sales Tax Rules
Income Tax Rules, Excise customs

Syllabus **Practical** **Marks:40**

S.No. **Practical Title**

1. Assessment of entrepreneurial traits
   - Thematic Appreciation Test (Tat)
     Who am I?
   - Paired comparison Test - (PCT) and Sentence completion test (SCT)
   - Risk Taking Behavior (Ring toss)
   - Conceptualizing entrepreneurial values (Block building exercise)
   - Achievement planning exercise (business game)
   - Interaction with support agencies (discussion)
2. Project planning, formulation and report preparation
   - (Individual/group exercise)
3. Interaction with enterpreneurs
   - (Industry visit)
4. Case Studies

Reference Books:

1. Desai, V. 1991. Entrepreneurial Development, Vol. I, II, III, Himalaya Publication, Bombay.
2. Pareek, U. and Rao, T.V. 1978. Developing Entrepreneurship. A Hand book learning system.
3. Mishra, D.N. 1990. Entrepreneur, Entrepreneurship Development and planning, Chug publishers, Allahabad.
4. Chandra, Shanta Kohil, 1991. Development of women Entrepreneurship in India, Mittal publishers, New Delhi.
5. Gupta, Ramavtar 1991. Industrial Enterpreneurship. Print well, Jaipur