B.Sc. Home Science

Department of Home Science, Banaras Hindu University <u>DISTRIBUTION OF DIFFERENT COURSES AND CREDITS IN VARIOUS SEMESTERS</u>

ourse Code	Title	Credits
HSB101	(A)Introduction to Foods (Credit - 2), and (B) Human Development (Credit - 2)	4
HSB102	Practicals hased on course HSB101	12
:	Total	- 6
	Semester – II	
HSB201	(A) Introduction to Clothing Textiles, (Credit – 2) and (B) Family Resource Management (Credit – 2)	4
HSB202	Practicals based on course HSB201	2
	Total	6
	Semester – III	
11SB301	(A) Home Science Extension Education, (Credit – 2) and (B) Human Nutrition (Credit 2)	4
HSB302	Practicals based on course HSB301	2
	Total	6
	Semester – IV	
HSB401	(A) Interior Design, (Credit – 2) and (B) Clothing Construction (Credit – 2)	4
HSB402	Practicals based on course HSB401	2
=:	Total	6
	Semester – V	
HSB50,I	Home Science Extension Education and Rural Development .	3
HSB502	Consumer Economics	3
HSB503	Fundamental of Human Development	3
HSB504	Diet Therapy I	3
HSB505	Fashion Designing	3
HSB506	Practicals based on course HSB501 & HSB502	3
HSB507	Practicals based on course HSB504	1 2
HSB508	Practicals based on course HSB505	2

-	Semester - VI	3
HSB601	Advanced Home Science Extension and Communication	3
HSB602	Diet Therapy II	3
HSB603	Advanced Human Development	3
HSB604	Consumer and Business Legislation	4
HSB505	Statistics and Research Methods (Elective)	2
HSB606	Practicals based on course HSB601	2
HSB607	Practicals based on course HSB602	. 2
HSB608	Practicals based on course HSB603	1 22
	Grand Tota	1 68

SEMESTER -1

Paper - 1

INTRODUCTION TO FOODS AND HUMAN DEVELOPMENT

(Credit 4)

HSB101:

INTRODUCTION TO FOODS

(Credit 2)

Section A:

Foods History: Composition and function of food, classification, Food hygiene, cost availability; quality, and Foods History: Composition and rancing of foods, food groups. Energy foods, body building foods, protective food. Cookery quantity of foods, food tables, food groups. & cleanliness Kitchen and dining against a point and dining against the content of the content quantity of foods, tood tames, 1000 groups. The groups of foods and dining equipments. Principles and Kitchen; Layout, arrangements, fuel, sanitation & cleanliness. Kitchen and dining equipments. Kitchen; Layout, arrangements, rues, samuation to stocking. Comparative study of cooking. Comparative objects of cooking. Methods of preparation prior to cooking an multiple value colour methods. objects of cooking. Methods of preparation production on nutritive value, colour, appearance and palatability,

Cereals & Cereal Products: Importance, composition and structure of cereal grains, Processing of cereals & cereais & Cereai Froducts, Importance, Enrichment and fortification of cereals. Pulses and storage; methods & their limitations, Germination. storage; memous & men minimum, composition, processing of pulses Vegetables & Fruits: Classification, composition, legumes: Importance, composition, processing of pulses vegetables & Fruits: Classification, composition, regumes; importance, compounds, selection, purchase, storage and Home Care. Milk & Milk Products; pigments, flavour compounds, selection, purchase, storage and Home Care. Composition, processing, uses in cookery, effect of heat, enzymes, acids and salts on milk & milk products, Flesh Foods: Egg; Structure, composition, quality of eggs, uses in cooking. Meat, Fish, Poultry; Classification, structure, composition, ripening, ageing, factors affecting tenderness of meat, buying and care in Home. Gelating composition, properties & uses. Beverages; Tea, coffee, chocolate & cocoa powder. Other Beverages; aerated beverages, juices. Nuts & Oilseeds; Composition, role in the diet. Spices & Condiments; Properties, uses & abuses in diet.

Food Safety and Standard Regulation: Adulteration, ISI, Agmark, FPO, MPO, PFA, HACCP, Additives, food laws.

Food Microbiology: Brief history of food microbiology and introduction to important micro-organisms in foods. Food Spoilage; Contamination and micro-organisms in the spoilage of different kinds of foods & their prevention, Cereal & cereal products, vegetable & fruits, fish and other sea foods, meat & meat products. Egg & poultry, milk & milk products, canned foods. Public Health hazard due to contaminated foods; Food borne infections and intoxications; symptoms, mode and source of transmission and methods of prevention. Fundamentals of control of micro-organism in foods; extrinsic and intrinsic parameters affecting growth and survival of microbes, use of high & low temperature, dehydration, freezing, freeze drying, irradiation and preservatives in food preservation.

HUMAN DEVELOPMENT Section B:

(Credit 2)

Concept of Human Development: Meaning and importance of Human Development, Principles of Development, meaning of terms "Growth" and "Development".

Stages of Human Development, Major characteristics of different stages of lifespan (Prenatal, Infancy, Buby hood, early middle and late childhood, puberty, early and late adolescence, young, middle and late adulthood and old age). Developmental task and milestones.

Physiology of Pregnancy & Postnatal case of Mother & Child: Reproductive System (Male and Female)conception, Stages of Prenatal Development, Genetic and Environmental factors, Birth process and complications, Maternal Health and Cure during pregnancy Immunization schedule

Hazards during prenatal development. Immediate care of new born, Types of feeding Natural and Artificial Weaning, Infant and mother mortality and morbidity, Child rearing Practices.

Study of developmental patterns: Physical motor, social, emotional, cognitive and language development in different stages of tifespan (Prenatal, Infancy, Baby hood, early middle and late childhood, puberty, early and late adolescence, young, middle and late adulthood and old age)

Problems and adjustments during illespan: Problems of infancy, preschool period, adolescence and old age Physical, psychological, behavioral, social and family adjustment during different stages of lifespan.

PRACTICAL

INTRODUCTION TO FOODS AND HUMAN DEVELOPMENT

(Credit 2)

Preparing different food items by using different cooking methods and calculation of nutrients based on food

Study of the effect of cooking on carbohydrates (dextrinization-sujihalwa, caramalization-sugar), fats,

protein(egg-coagulation, paneer), texture and colour of vegetables. Methods of food processing-popping, germination/sprouting, malting, baking preparation and serving.

Study of Microorganism through permanent slides.

Part B: Human Development

Study of Reproductive system.

Visit to any one pre-school center situated in Varanasi city

Study of all developmental patterns in different age groups

- infancy
- Baby hood
- Pre-school child
- School going child
- Child in puberty
- Adolescents
- Adult
- Old age person

- 1. Tauro P., Kapoor K.K., Yadav K.S., 1996, An Introduction to Microbiology, Wiley Eastern Limited. Suggested readings:
 - Wilson E.D., Fisher K.H. and Garcia P.A., Principles of Nutrition, John Wiley & Sons, New York,
 - Potter N.N., Hotchkiss J.H. (1996): Food Science, Edition 5, CBS Publishers and Distributors, New
 - MacMillan M. (1984): Experimental Foods Laboratory Manual, Surject Publications.
 - Frazier W.C. and Westroff D.C. (1988): Fourth Edition, Food Microbiology, McGraw Hill INC.
 - 6.
 - Schiambery L.N. (1988), Child & Adolescent Development, McMillan Publising Company, New York
 - Papalia, D.E. & Olds S.W. (1978), Human Development, Mcgraw Hill, New York 7.
 - Child Development A Topical Approach, Alison-Clarke-Stewart, Susan-Friedman-Joanne Kock
 - 10. Berk, L.E. (1996), Child Development, New Delhi, Prentice Hall

SEMESTER - III

Paper -- III

HSB301:

HOME SCIENCE EXTENSION EDUCATION

AND HUMAN NUTRITION

(Credit 4)

HOME SCIENCE EXTENSION EDUCATION

(Credit 2)

Extension Education: Concept, meaning, philosophy, principles, aims & objectives of extension education Extension Education: Concept, meaning, paramagness, and past Independence), Extension Teaching Methods, Brief History of extension activities in India (present and past Independence). Difference between formal & extension education, Steps in extension teaching

Classification of extension teaching methods according to different criterias; according to use, form & nature, Classification of extension teaching, Learning Objectives, Innovation Decision Process, Adoption process, function, steps in extension teaching, Learning Objectives, Innovation Decision Process, Adoption process, Adopter's Category, Combined use of extension teaching methods (purpose, significance & types of combinations), Types of demonstrations (method, result & combined demonstration), Group Discussion, Compaign, Teaching Through Village Leaders, Criteria for Selection of Extension Teaching Methods, Factors affecting Extension Feaching Methods, Traditional Folk programmes, Educational Psychology & its application to extension education, Concept, meaning & aim of education psychology, Relationship between educational psychology & extension education, Objective and contribution of Psychology, Intelligence, emotions & motivation (concept, related Theories, types, importance, use in extension teaching), Psychology of Learning; Definition, meaning & concept of Teaching, Principles of Teaching; Qualities of a good Teacher, Guidelines for the teacher, Teaching plan (method of preparation, essentials & precautions), Teacher evaluation (concept & eriterias), Some psychological terms & their definition; Attention & Perception, Thinking, Conflicts, Psychological barriers, Propaganda

Communication: Concept of communication - meaning, functions, problems & barriers, Elements of communication process, Communication media - meaning, classification, advantages & limitations, Importance of communication in extension work, Communication Models, Functions of Communication, Communication Channels, Communicator - Communicate relationships; Orientation, Empathy, Feedback, Physical Interdependence, Credibility, Interaction, Homophily, Heterophily, Feedback in communication & role of feedback in Extension Education, Communication and extension approaches; Individual approach, Group approach, Mass

H.Sc. Extension: Concept, meaning of H.Sc. extension, History of H.Sc. extension education, History of H.Sc. extension education in India. (Credit 2)

Section B: HUMAN NUTRITION

Concept of Nutrition: Relation of nutrition to health, optimum nutrition, adequate nutrition, malnutrition, growth of the Science of nutrition with particular reference of India. Composition of human body, structure and functions of digestive organs, excretion of waste products, study of urine, sweat and faeces, blood body fluids and hormones, Microscopic study of stomach, tissues of human body, digestion absorption and metabolism of foods. Brief history of Nutritional Science, Scope of Nutrition. Minimal Nutritional requirements & RDA -Formation of RDA and Dietary guidelines - Reference Man and Reference Woman. Human Body Composition and Changes through the life cycle. Energy in Human Nutrition - Energy Balance, Assessment of Energy Requirements, Deficiency & Excess.

Introduction to Biochemistry - Definition, objectives, scope

Carbohydrates: Definition, classification, structure and properties, Digestion and Absorption, Blood glucose and effect of different carbohydrates on blood glucose, Glycemic Index, Significance of Dietary Fibre.

Proteins - Definition, classification, structure & properties of : amino acids - Essential & non-essential & proteins: Assessment of protein quality (BV, PER, NPU), Protein Energy Malnutriton (PEM).

Lipids - Definition and classification, structure, properties, significance of acid value, iodine value and saponification value, Digestion & absorption.

Vitamins: Fat soluble and Water soluble Physiological role, broavailability, requirements, sources, deficiency

Minerals & Trace Elements - Physiological role, bio-avaitability and requirements, sources, deficiency and excess (Calcium, Phosphorus, Magnesium, Iron, Fluoride, Zinc, Selenium, Iodine, Chromium).

Water & Electrolyte: Functions, Requirements.

Enzymes: Definition, Types & Classification of Enzymes

Community Nutrition: Community Nutrition or a field; Public Health Nutrition, Goals for Nutrition programmes, planning, implementation and evaluation of nutrition education programme, food fads & food

habits. Introduction to national nutrition programmes & policies; Integrated Child Development Services (ICDS): National Rural Development Programme (NRDP); National Rural Employment Programme (NREP); Miscellaneous monofocal programmes. Role of international agencies and programmes in community nutrition; Food & Agriculture Organization (FAO): World Health Organization (WHO), United Nations Childrens Fund (UNICEF); Other voluntary & government agencies. Direct nutritional assessment of human groups; Nutritional anthropometry; Biochemical tests; biophysical tests; clinical signs; individual nutrient deficiencies. Diet Survey methods at national, institutional, family and individual level. Indirect nutritional assessment of human groups: Indicators and their use; health policy indicators; social and economic indicators, indicators of the provision of health care; coverage by primary health care; basic health status indicators.

PRACTICAL

HSB302:

HOME SCIENCE EXTENSION EDUCATION AND

HUMAN NUTRITION

(Credits 2)

Part A:- Home Science Extension Education

- 1. Preparation and use of following aids: Circular letter, Lealflet and Pamphlet, News paper, Flash cards, Poster, Chart. .
- 2. Visiting Exhibition/media in community and preparation of report.
- 3. To get familiar with use and care of projected aids.

- Preparation of dishes rich in Energy, protein, fat, fiber, calcium, iron, vitamin A, vitamin C, thiamine, Part B:- Human Nutrition 1.
 - Reaction of mono, Di and polysaccharides and their identification in unknown mixtures, lodine test for 2. cooked and uncooked starch & dextrin.
 - Reactions of different types of fats (saponification and iodine value) 3.

 - Study of microscopic structure of tissues, liver, kidney, stomach, intestine, blood
 - Evaluation of nutritional status : By Anthropometry survey, Dietary survey 5.
 - Other determinants of family nutrition: Socio-economic status survey, using SES scale, Weaving 6. practices, Immunization practices, Sanitary practices.
 - Dietary practices, fads and fallacies during illness, pregnancy, lactation and other special conditions.
 - Assessment of nutritional status using above criteria in a community set up and report writing. 8.

Suggested readings:

- 1. Reddy A, Extension Education, Bapatia, India, Shree Laxmi Press 2. Pillai K.S., ABC of Non-formal Education, ITB Indraprastha Estate, New Delhi, India Adult Education
- Dhama O.P. & Bhatnagar O.P., Education & Communication for Development, Oxford & I.B.H.
- Sampath K., Pannirselvam A., Santhanam S., Introduction to Educational Technology, New Delhi,
- Swaminathan M. (1985): Essentials of Food and Nutrition, Vols. 1 & II, Ganesh & Co., Madras
- 6 Indian Council of Medical Research (1989): Recommended Dietary Intakes for Indians
- Indian Standards Institution (1985): ISI Handbook of Food Analysis, Parts I to XI, Manak Bhawan,
- Sundararaj P and Siddhu A. (1995): Quantitative tests and Quantitative procedures in Bio-chemistry -
- 9. Lehninger A.K., Nelson D.L. and Cox M.M. (1993), 2nd Ed. Principles of Biochemistry, CBS
- 10. Guyton A.C., Hall J.E. (1996): Textbook of Medical Physiology, 9th Ed. Prisin Books (Pvt.) Ltd.,
- 11. Obert J.C. (1986) Community Nutrition, 3rd Edition, MacMillan Publishing Co., New York

SEMESTER - IV

Paper IV

HSB401:

INTERIOR DESIGN AND CLOTHING CONSTRUCTION

(Credit 4)

Section A:

INTERIOR DESIGN

(Credit 2)

Housing: Family's Housing Needs, Protective, economic, affectional, social standard of living housing goals, style, function, occupation, Factors influencing selection and purchase of site for house building, Legal aspects, location, physical features, soil conditions, cost, services. House Planning, Reading house plans Grouping of rooms, orientation, circulation, flexibility, privacy, spaciousness, services, aesthetics, economy light and

Planning different rooms: Living room, dining room, bedrooms, kitchen, store room, toilet, passage, staircase, Financial Consideration, Availability of funds for housing, Housing Development Finance Corporation, Cooperative Housing Society, Life Insurance Corporation, Cooperative Banks, Loan from Provident Fund Finance Corporation of India, Residential structural features of architecture

Foundations, footing, plinth, beams, columns, walls, slabs, floor, ceiling, window, doors, staircase, Types of building materials and its characteristics & uses, Gardening plan & indoor gardening, State & Central Housing Scheme; National Housing Policy, Urban Land (Ceiling & Regulation) Act, 1976, Rent Control Act and Govt. Policies & Programmes, Housing problems, causes and remedial measures, Housing Standards & Legislation

Interior Planning & Decoration: Introduction to interior planning & decorations

Application of elements and principles of design in interior planning and decoration, Furniture; Furniture design based on anthropometric dimensions

Styles of furniture; Traditional, contemporary and modern, Selection of furniture for comfort, rest & relaxation for work, for storage, Arrangement of furniture for living, sleeping, dining and multipurpose rooms, Upholstered furniture materials, techniques and designs, Furnishing Fabrics, Types of curtains; Draperies, floor coverings, rugs and carpets, cushion covers, slip covers, bed linen and table linen

Select on and use, Functional & decorative accessories for interiors, painting, sculpture, pots etc., Lighting in interio Lighting plans for illumination and special effects, Lighting sources; Developing a lighting plan for diffe at areas, Kitchen Modular Design; Types of kitchen, Kitchen Geometry; Work height of different work areas and storage areas, space dimensions of different work centres and work areas, Materials; Floor, walls, sink, ceiling and its characteristics, platforms, storage etc., Types of finishes, Essetial services needed in a kitchen,

Water supply, Hot & cold, tap fittings, water purifiers, Electricity services; electricity current, air purifier, MCB fuses, exhaust, Drainage services; Waste water drainage system, waste disposal, cleaning agents & equipments

Light: Introduction to light, properties of light, velocity of light. To study the different type household equipments (mixer greider, electric iron, toster, geyser, water heater, washing machine and microven)

Cleaning and care of different materials; Metal, glass, wood, paints, upholstery, floor & floor coverings.

CLOTHING CONSTRUCTION Section B:

Traditional textiles and costumes of India, Dyed & Printed textiles of India; Kalamkari, Patola, Pochampalli. Ikat of Orissa, Tie & Dye of Tamil Nadu, Woven Textiles of India; Brocades, Shawals of Kashmir, Muslins of Bengal, Silk of Karnataka, Cotton of Kerala, Woven sarees of different states of India, Traditional Costumes of India; Costumes of Men & Women & Traditional marriage costumes of different states of India (Details of costumes, jewellery & accessories), Elements and Principles of design as applied to apparel designing, Figure types, silhouettes, Sewing equipments and other tools required for drafting, cutting, stitching, sewing machine: Part of machine, their use, care & remedy, Body measurement; Anthropometric measures and method of taking body measurement for different garment, General construction techniques for garment; Drafting, folding, lay out, marking and cutting of pattern pieces, Essentials of Children's Clothing, Importance of Clothing. Psychological effect of clothing on children, Effect of clothes and child's growth, Sociological & Psychological aspects of clothing, Drafting of Jhabla, Baby frock, plain frock, shirt, trouser.

Pattern Making: Techniques of flat pattern making, Principles and application of flat pattern for different styles of bodies, skirt and sleeves, slash & spread method. Fabrics for garment making; Handling of different types of fabrics, selection of fabric for different garment, study of texture, surface, colour in relation to garment design, material required for different garment. Sources of inspiration for apparel designing fashion and current fashion trends.

Seams: Types of seam. seam finishes (Darts, Tucks, Pleats, Gather, Yokes, Pockets, Collars, Loops & fastners. Trimmings, Stay Stitching, Lining, Neckline, Interlining, Top Stitching, Facing, Interfacing), Sewing supplies.

PRACTICAL

(Credits 2)

INTERIOR DESIGN AND CLOTHING CONSTRUCTION HSB402:

Part A :- Interior Designing

Learning architectural symbols

Drawing of house plans for different income levels

Planning of different kitchen layouts (considering various kitchen sizes)

Study of furniture detailing

Furniture layout for different rooms & drawing of designs

Interior design for small flat/large residential space/different rooms

Visit to hotels, restaurant, conference hall to study interior designing pattern (any one)

Part B:- Clothing Construction

Visit to museum & report writing on traditional textiles of India.

Group Discussion on traditional costumes of India.

Illusion of different garment on Silhoultee.

Preparation of Bodice block, adult.

Drafting of sleaves basic & variation.

Drafting of collar & its variation

Construction of frocks, trouser, shirt.

Preparation of samples of seams dart, tucks, pleats, pockets, collars, loops, fastner.

Sketching of designs of variation in frocks.

Suggested readings:

- Cherunilam, Frances & Heggade, Odeyan; D (1987): Housing in India, Bombay, Himalaya Publishing
- Again Tessie (1970): The House: Its Plan & use, New York, J.B. Lippincott Co.
- Deshpande R.S. (1980): Modern Ideal Homes for India (9th Ed), Smt. L.S.Deshpande for Deshpande 3. Publications Trust
- Deshpande R.S. (1980): Building your own House, United Book Corporation
- 5. National Building Organization Monograph of Housing Statistics
- Ball Victoria Kloss (1982): Art of Interior Design, John Wiley & Sons 6.
- Ruth Morton: The Home and its furnishings, U.S.A. McGraw-Hill, 1953 7.
- Complete Guide to Sewing, The Reader's Digest Association, Inc., Pleasantville, New York/Montreal, Canada
- 9. Pandit Savitri, Manual for Children's Clothing, Orient Longman Limited, Bombay
- 10. Zarakkar K.R.: Zarakkar System of Cutting, Bombay
- 11. Doongaji (1975): Basic Process & Clothing Construction, New Delhi, Raj Book Dep.
- 12. Brij Bhushan, Jamila: The Crafts of Weavers, The Costumes & Textiles of India, D.E. Tarapore Valla Sons & Co.
- 13. Gandotra & Patel: Housing for Family Living
- 14. डॉ. मंजू पाटनी : गृह प्रवेध
- 15. डॉ. मंजू पाटनी : आवास गृह सज्जा एवं घंरेलू उपकरण
- 15. करुना शर्मा : आवास एवं आंत्रिक पञ्जा
- 16. डॉ रीना खनूजा मृह प्रयंध साधन व्यवस्था एवं आतिरिक सज्जा
- 17 जो जीपी शरी गृह व्यवस्था एवं गृद कता

SEMESTER - V

Paper - I

HSB501:

HOME SCIENCE EXTENSION EDUCATION AND RURAL DEVELOPMENT

(Credit 3)

Community Development: Meaning, objectives, organization of Community Development, Scope of Community Development Programme Types of Community Development Programme; Various community development programmes, Govt. sponsored programmes for family development; DWCRA, IRDP, NREP RLEGP, TRYSEM etc. (source of funding), Panchayati Raj & Democratic Decentralization, Concept & evolution of Panchayati Raj, Organization of Panchayati Raj Institutions, Functions & Importance of Panchayati in rural development, Five Year Plans, Concept & evolution of Five Year Plans, Major contribution of Five Year Plans in rural development, Leadership Development, Concept & definition of leader & leadership, Types of leaders, Principles of democratic leadership, Personality Dynamics of leader, Functions of a leader, Factors determining effectiveness of leader, Role of leader in group mobilization, Gender and Development, Concept of development, Indicators for development. Women as a partner in the developmental process & national planning, Approaches of Development, Shifts from welfare approach to development & empowerment approaches, National efforts for Development of Women; National Policy on Women, Role of National Commission for Women

Rural Sociology: Concept, meaning, definition of Rural Sociology, Nature & scope of Rural Sociology, Rural Sociology in India; Origin & development, Importance of Rural Sociology in India, Subject matter of Rural Sociology, Study methods of Rural Sociology, Functions & utility of rural Sociology, Rural Social System, Indian Village (meaning & concept), Characteristics of Rural Society, Rural and Urban life, Rural Social Problems, Indian rural social structure, Rural development and programme; Integrated Rural Development Programme, Rural Reconstruction & Planning

Suggested readings:

- 1. Patnayak Rama, Rural Development in India, New Delhi, Vikas Publishing House Pvt. Ltd.
- 2. Thingalaya N.K., Rural India Real India, Bombay, Himalaya Publishing House
- 3. Indian Journal of Extension Education, The Indian Society of Extension Education, Division of Agricultural Extension, IARI, New Delhi - 110012
- Desai, Vasanth, Rural Development Programme & Strategies, Bombay, Himalaya Publishing House

Paper - II

CONSUMER ECONOMICS

(Credit 3)

Family organization: Family as a basic institution, Suructure of Indian Families-urban and Rural family. Family as an economic family, family and society.

Consumer Economics: Definition, usefulness and importance of the subject. Survey of living standards of any

Standards: Principle of family's standard of living. Concept of standard of living method to raise standard of

Human wants & Utility of commodities: Factors governing wants. Theory of wants, classification of wants, Principles of substitution of relation, utility-law of diminishing marginal utility. The principle of equimarginal utility as the object of household expenditure, consumers, surplus.

Family Finance: Type of income-money, real, psychic

- Sources of money income wages and salaries, Profit. Interest and Rent. Transfer Payments. Royalties,
- Sources of real income. Money spent in exchange economy. Household production. Free goods and
- Regular and irregular income. Substitutions of other resources for money. Methods of handling income in families.

Expenditure: Family budget its main items, Engle's law of consumption, kinds of household consumption.

Market: Recognition, type of markets functions distribution, role of consumer in market. Price determination under monopoly and competition. Rationing and price control

Maslow's self-actualization Theory. Attachment theory of Bowlby. The psychology of behaviour perception, concept formation, reasoning and thinking. Imagination, creativity memory, remembering and forgetting. Intelligence Motivation and Learning

Early Childhood Education and Management: Meaning, importance, and origin in India, objectives and Principle of ECCE, philosophy of Early Childhood education (Pre-basic Education of Gandhiji, Maria Montessori, Giju Bhai Vadika, Frobel). Early childhood education centers: Infrastructure and Administration, Staff building and Equipment, record keeping, parent teachers meeting, Curriculum for ECCE centers, Importance of Science, nature, music, role plays and stories in ECCF programme, Understanding and guiding children.

Child Guidance & Counseling: Meaning, nature, scope & objectives of child guidance & counseling service, principals of Guidance & Counseling, types of Guidance & Counseling, Educational, Vocational, Occupational, Personal and Behavioural, pre-marital and marital counseling, different stages of guidance and counseling, role of counselor, ethics of guidance and counseling.

Assignment on any one topic selected from theory course and presentation of the same. (For theory sessional only)

Suggested readings:

- 1. Gangrae K.D. (1971), Community Organization in India, Popular Prakashan, New Delhi
- 2. State of World Children, UNICEF, Annual Publication
- Parakesh B.S. (1985), Population Education Inception to Institutionalization, NCERT, New Delhi
- Bernard H.W. & Fullner D.W., Principles of Guidance, Bombay, Allied Publishers 4.
- Verme Hildebrand (1985) Guiding Young Children, New York, MacMillan Publishing Company
- 6. Hallan D.P. & Kauffman T.M. (1991), Introduction to Exceptional Children (5th Ed.), Boston, Allyn & Bacon

Paper - IV

DIET THERAPY I HSB504:

(Credit 3)

Basic concepts of diet therapy: Therapeutic adaptations of normal diet, principles and classification of therapeutic diets. Team approach to health care. Assessment of patient's needs. Routine Hospital Diets; Regular, light, soft, fluid, parenteral and enteral feeding.

Energy modifications and nutritional care for weight management, Identifying the overweight and obese, etiological factors contributing to obesity, prevention and treatment, low energy diets, balanced energy reduction. Underweight; Aetiology and assessment, high energy diets for weight gain, anorexia nervosa and bulimia, Diets for Febrile conditions, infections and surgical conditions

Etiological factors, symptoms, diagnostic tests and management of GI tract disease - Diseases of oesophagus, gastric and duodenal ulcers, diarrhoea, steatorrhoea, diverticular disease, inflammatory Bowel Disease, Ulcerative Colitis. Flatulence, Constination, Irritable Bowel Syndrome, Hemorrhoids, Celiac sprue, Tropical sprue. Nutritional Anemias, Sickle cell Anemias. Viral Hepatitits, Cirrhosis of Liver, Hepatic Encephalopathy, Wilson's disease. Dietary care and management in diseases of Gall Baldder and pancreas - Cholelithiasis, cholecystitis, cholecystectomy, Pancreatitis etc.

PRACTICAL

(Credit 2)

HSB507:

DIET THERAPY I

Planning and preparation of Normal diet.

High-Risk Management (hospital based) - Nutrition assessment.

Planning and preparation of fluid food preparations.

Clear fluid preparations. Full fluid preparations. Planning and preparation of fluid diet-clear and full fluid.

Planning and preparation do Recipes of soft/semi-solid diet,

Mechanical, pureed, Planning and Preparation of soft diet.

Planning and preparation of recipes using protein concentrates, sugar substitutes, low fat and low calorie recipes, high fibre recipes, bland diet recipes and diets for the following conditions:

Constipation, malabsorption, syndrome, viral hepatitis, liver

Cirrhosis, cholecystitis, nutritional anaemias

Price of Commodities: Fundamental ideas. Fixation of price. Price as a guide to quality. The role of consumer in in-crease and decrease of prices. Causes of inflation-role of consumer in influencing inflation.

Market, Supply & demand: Market Schedule, law of demand electricity of demand.

Types of advertising: Newspaper, magazines direct advertising, radio and television, Outdoor advertising; Advantages & disadvantages of each

Entrepreneurship: Concept and frame work, reatures, classification of entrepreneurship, entrepreneurship theories, contribution of entrepreneurship and economic development.

Suggested readings:

- 1. Gordon Lee (1972), Economics for Consumers, D. Van Nostrand Company, New York
- Singh Gurbax (Comp) (1990): Law of Consumer Protection, Jaipur, Bharat Law Publishers
- 3. Kewal Krishan Dewett & Adarsh Chand (1981): Modern Economic Theory, 12th Ed., Shyamlal Charitable Trust
- Gupta B.D. (1973), Consumption Pattern in India, Tata McGraw Hill 4.
- Sint. B. K. Bakhshi: Consumer Economics (Hindi)
- Dr. Tripathi: Consumer Economics (Hindi)
- 7. Dr. Naresh Tripathi: Consumer Economics (Hindi)
- Dr. Dubey and Sinha: Consumer Economics (Hindi)
- 9. Smt. B. K. Bakshi: Consumer Economics (Hindi)
- 10. Dr. Tripahi: Consumer Economics (Hindi)

PRACTICAL

(BASED ON HSB501 AND HSB502) **HSB506**

(Credit 3)

Part A: HOME SCIENCE EXTENSION EDUCATION AND RURAL DEVELOPMENT

Visit to a village to gain knowledge through standard questionnaire about;

- (a) The Rural Society
- (b) The Gram Panchayat, Regional Committee 1/4 (ks=h; Ifefr1/2 at block level and their functioning.

To know about different programmes running for rural development and interaction with villagers.

Observation of development programmes running in the village and intraction with villagers and personnel of implementing agency.

Educational tour to institutions related to the course.

Part B: CONSUMER ECONOMICS

Study of merits and demerits of unclear family and joint family.

Impact of advertising on consumer buying on children and women/ society.

Collection of various advertisements and classification by identifying intended consumer appeal.

Make a list of sources of income in your family. Draw up a personal budget.

Assignments- Assign projects to the students to present new idea of enterpreneurship.

Paper - III

FUNDAMENTAL OF HUMAN DEVELOPMENT HSB503:

(Credit 3)

Methods of studying Human Development: (case study interview, naturalistic observation and laboratory observation). Experimental methods, Data collection methods (cross sectional and longitudinal and sequential studies). Ethics of Research (ethical issues and standards).

Introduction to theories of Human Development: Piagets's theory of Cognitive Development. Psycho: sexual theory of Sigmund frued (Defense Mechanisms, stages of Psychosexual development, Id, ego and super ego). Psychosocial theory of Erik, Erik son. Traditional learning theories (Paylov, Watson and Skinner). Social learning theory (Bandura): Kohiberg's Theory of Moral Development. Theories of language acquisition.

Suggested readings:

- 1. Anderson, L., Dibble, M.V., Turkki, P.R., Mitchall, H.S., and Rynbergin, H.J. (1982): Nutrition in Health and Disease, 17th Ed., J.B. Lippincot & Co. Philadelphia.
- 2. Antia, F.P. (1973): Clinical Dietetics and Nutrition, Second Edition, Oxford University Press, Delhi
- 3. Mahan, L.K., Arlin, M.T., (1992): Krause's food, Nutrition and Diet Therapy, 8Th Ed. W.B. Saunders Company, London,
- Robinson, C.H., Lawler, M.R., Chenoweth, W.L. and Garwich, A.E. (1986): Normal and Therapeutic Nutrition, 17th Ed., Macmillan Publishing Co.
- Williams, S.R. (1989): Nutrition and Diet Therapy, 6th Ed. Times Mirror/Mosby College Publishing, St. Louis.
- 6. Raheena, Begum (1989): A textbook of foods, nutrition and dietetics. Sterling Publishers, New Delhi.
- 7. Joshi, S.A.(1992); Nutrition and Dietetics, Tata Mcgraw Hill Publications, New Delhi.

Paper - V

HSB505:

FASHION DESIGNING

(Credit 3)

1. Pattern making:

- i. Techniques of flat pattern principles and application of flat pattern for different styles
- ii. Introduction to draping & draping of bodice block or dress form Developing paper pattern, pattern envelop, guide sheet and understanding the commercial paper pattern
- iii. Fitting; Factors affecting good fit, problems and remedies Dart manipulation
- iv. Principles of figure drawing & sketching of body features, block figure. Drawing the form with different angles, Front, side, back
- v. Drafting and stitching of salvar, kurta, blouse, petticoat, night suit (any three)
- vi. Dart-manipulation
- vii. Component of fashion; Silhouttee, details, colour, fabric, texture, seams, trims.
- viii. Study of Fashion Terminology, concept, fashion cycle
- ix. Fashion forecasting
- x. Portfolio development
- xi. Detailed study of Industrial machine & equipments used for Cutting, Sewing, Finishing, Embellishment.

PRACTICAL

(Credit 2)

HSB508:

FASHION DESIGNING

- 1. Preparation of bodice block
- 2. Preparation of patterns by draping
- 3. Preparation of patterns by flat pattern
- Dart manipulation
- Preparation of block figures
- Sketching of fashion figures with different angles
- Sketching of fashion figure & designing of garments using fashion components 6.
- Study of industrial machine and equipments related to sewing, cutting and finishing Portfolio development
- 10. Preparation of two designer garments

- Armstrong, Helen Joseph Pattern making for Fashion Design, Harper Collins Publishers, New York Suggested readings:
 - Bane A : Flat Pattern Design, Megraw Hill
 - Goldsworthy, M.: Simple Dress-making, London, Mills & Boon Ltd. Allen, Anne & Seaman, Jullian, Fashion Drawing: Basic Principles, B.T. Batsford, London

SEMESTER - VI

Paper - 1

HSB601:

ADVANCED HOME SCIENCE EXTENSION AND COMMUNICATION

(Credit 3)

Adult Education (A.E.): Formal, non-formal & Informal system of education, Concept, background, meaning & definition of A.F., Aim & objectives and goals of A.E., Role of Adult education in National Development, History of adult education in Post-Independent India; Gram Shikshan Mohim, Farmer's functional literacy project, Non-formal education for youth (NAEY), National adult education programme (NAEP), State adult education programme (SAEP). Adult education through voluntary agencies, National Literacy Mission (Achievement & Problems), Literacy scenario of nation, state, district & local areas. Choice of language for literacy, dialects Vs standard.

Community participation in A.E.: Training for Development, Concept, meaning & types of training Institutional, Interactive, Participatory, Various Training Approaches; Creativity Training, Field Training, Group dynamics, Laboratory Training, Motivation Training, Self-awareness & self development, Techniques of Training including RRA, PRA.

Genesis & growth of Folk and Electronic media in India: Types of folk media, folk music & dances, street theatre & its educational value, role of puppetry & different types of puppets, importance of folk media in development context & criteria for selection of folk media. Concept, meaning & role of electronic media. various forms of electronic media (broadcast media, T.V., film media), their development in India, Types of programmes, their use in extension work, feedback mechanism for all types of electronic media.

Advertisement and Visual Publicity: Meaning, importance & role of visual communication and print media, type of printing (Design & layout), press & public relations, law related to press, agencies governing regulations & ensuring-freedom of press, concept & meaning of graphic art, editorials, principles of editing. Advertising as a mass communication process, Need for advertising communication, economic & social effect of advertising, Types of advertising media; print media, broadcast media, outdoor advertisement (hoardings, posters, bill board, bulletin board, electronic signs, litterbins, aerial methods, wall magazines), transportation media (mobile vehicles), exhibitions & trade fairs, non-media advertising, Techniques of Advertising; choosing content, layout & design, media planning, Ethics in Advertising, Programme Planning, Meaning, need & principles, Steps in programme planning, Criteria for good programme planning, Execution, monitoring & evaluation of extension programme

Project Planning & Management: Meaning & concept of project, Components of project management system, Steps for designing the project, Proposal writing, Cost estimation & financial management, Fund raising.

PRACTICAL

HSB606:

ADVANCED HOME SCIENCE EXTENSION AND COMMUNICATION

(Credit 2)

- Plan a programme keeping in mind the steps of Programme Planning.
- 2. Proposal writing
- Organizing a Fair/Mela/Exhibition.
- 4. Excursion Tour

Suggested readings:

- 1. McGivney, Veronica & Murray, Frances: Adult Education in Development Methods & Approaches for Changing Societies, 19 B, De Mant Fort Street Leicester LE, U.K. National Institute of Adult &
- Lynton Rolf P. & Pareck Uday, Training for Development Homewood, Iwrois, Dorsey Press
- Jain R, Mass Media & Rural Development, Vol. II, New Delhi, Mank Publication Pvt. Ltd.

Paper - II

HSB602:

DIET THERAPY II

Diabetes Mellitus: Classification, Symptoms, diagnosis, Insulin therapy, Oral hypoglycemic agents, Glacose monitoring at home. Dietary care and nutritional therapy, meal plan (with and without insulin). Special dietelle foods, Sweeteners and sugar substitutes. Diabetes in pregnancy, elderly, surgery, illness. Diabetic coma, Insulin

Diseases of the cardiovascular system; Atherosclerosis: Etiology and risk factors. Hypertension; Etiology. prevalence, nutritional management and prevention. Diet in kidney diseases; Classification, etiology, characteristic symptoms and dietary management in: Glomerulonephritis: Acute and chronic, Nephrotic syndrome, Use of sodium and potassium exchange lists.

Allergies: Definition, symptoms, diagnosis and dietary management. Food selection. Food allergy in infancy.

Cancer: Nutritional and non-nutritional etiological factors,

Surgery, trauma and burns: Physiological changes in relation to trauma. Assessment of the nutritional status in surgical and burns patients. Pre-operative and post-operative nutritional care. Nutritional care in trauma, Nutritional management of burns patients.

Inborn errors of metabolism: Thyroid and parathyroid glands. Gout. Interactions between drugs.

Suggested readings:

- 1. Anderson, L., Dibble, M.V., Turkki, P.R., Mitchall, H.S., and Rynbergin, H.J. (1982): Nutrition in Health and Disease, 17th Ed., J.B. Lippincot & Co. Philadelphia.
- 2. Antia, F.P. (1973): Clinical Dietetics and Nutrition, Second Edition, Oxford University Press, Delhi
- Mahan, L.K., Arlin, M.T., (1992): Krause's food, Nutrition and Diet Therapy, 8Th Ed. W.B. Saunders
- Robinson, C.H., Lawler, M.R., Chenoweth, W.L. and Garwich, A.E. (1986): Normal and Therapeutic Nutrition, 17th Ed., Macmillan Publishing Co.
- Williams, S.R. (1989): Nutrition and Diet Therapy, 6th Ed. Times Mirror/Mosby College Publishing,
- 6. Raheena, Begum (1989): A textbook of foods, nutrition and dietetics. Sterling Publishers, New Delhi.
- 7. Joshi, S.A.(1992): Nutrition and Dietetics, Tata Mcgraw Hill Publications, New Delhi.

PRACTICAL

HSB607:

(Credit 2)

- 1. Review of existing practices in hospitals. Oral supplements indigenous/home based and commercial for stressed patients - burns, surgery, cancer, debilitated patients. Management of patients with feeding problems. Tube feeds - all forms, elemental and parenteral.
- 2. Planning and preparation of diets. Without Insulin, with insulin, adult and juvenile, diabetes in pregnancy, diabetes and illness.
- 3. Diseases of Cardiovascular system-
- 4. Formulation of low cholesterol and low sodium recipes, planning and preparation of diets for hypertension, CHD, congestive heart failure during acute, chronic and convalescent conditions.
- Protein and mineral modification for patients with renal disease
- Planning and preparation of diet for glomerulonephritis acute and chronic, nephritic syndrome. dialysis.
- Elimination diets for allergy:
- Low purine diet.
- 9. Overweight and obesity, underweight, fevers, ulcers, diarrhoes,

Paper - III

ADVANCED HUMAN DEVELOPMENT

(Credit 3)

Family and Child Welfare: Family in India (concept, family composition & structure, changing pattern of family, causes & effects of family disharmony, Implications of family changes). Marital discord, Children's right & National Policy for children, Demographic Profile of child in India. Family & child welfare services working at National & International level (CSWB, ICCW, ICDS, NIPCCD, WHO, UNICEF, CARE). Concept. meaning and coping strategies for violence against women, youth, disabled & others, types of violence. Marriage & Family dynamics, Physiological, social, psychological, financial readiness for marriage, Preparation for Marriage: Selecting a suitable partner. Premarital counseling. Technological advancement and family

Legal Aspects: Laws regarding marriage (Hindu Marriage Act, Muslim Marriage Act, Christian Marriage Act, Special Marriage Act), Divorce, Adoption, Inheritance Dowry) Contemporary issues in family life, dual career families, non-traditional families, influence of extra familial factors-films, TV, peer group, neighbourhood & school on development of children.

Family life education: Meaning, Need, Importance & objectives of Family life education, determination of sec techniques, fertilization techniques (Annio centesis, sonography, Gift, IVF & A.I. Pregnancy & ils management)., Need & concept of family planning, contraceptive technology, Planned parenthood-spacing between children, size of family.

Parent Education: Meaning, Need, Importance & objectives of parent education

Child with Special Needs: Definitions, Ferminology, History of studying disability in India & Abroad, Issues in Classification & labelling, Mainstreaming, Education and Rehabilitation facilities, Government & Non. government efforts (Schemes for Physically & Mentally Challenged people). Different Type of disabilities, their definition, classification, statistics, genetic & environmental, causes, prevention, Rehabilitation facilities; Mental Retardation, Sensory Deficits (Auditory Impairment, Visual Impairment). Learning difficulty & disability, Cerebral Palsy & orthopaedic disability, Communication disorders, Behavioural disorders.

Family Support Services: Meaning, Nature & Scope of Family Support Services, Support Services for children (creches, day care centers, kishore sadan, observation home & Juvenile Jails). Support Services for Women: Mahila Ashram, Nari Niketan, Govt, Praveshalaya & Shriahalya, Vidhwa Ashrams, Women Study Centers. Support Services for elderly; Old age homes, day care for aged, Support Services for family; Family courts, family guidance centers.

PRACTICAL

HSB608:

ADVANCED HUMAN DEVELOPMENT

(Credit 2)

Visit to various institutions related to special need children.

- val folky;
- Deaf and Dumb school
- Deva Centre

Study of marital adjustment in couples of different time span of marriage

- After 5 year of marriage
- After 20 year of marriage
- After 35 year of marriage

Study of family relationship in different types of families

- Nuclear family .
- Joint family
- Extended family
- Working and non-working women
- Single parent family

Suggested readings:

- 1. Gangrae K.D. (1971), Community Organization in India, Popular Prakashan, New Delhi
- State of World Children, UNICEF, Annual Publication
- Parakesh B.S. (1985), Population Education Inception to Institutionalization, NCERT, New Delhi
- Bernard H.W. & Fullner D.W., Principles of Guidance, Bombay, Allied Publishers
- Verma Hildebrand (1985) Guiding Young Children, New York, MacMillan Publishing Company
- Hallan D.P. & Kauffman T.M. (1991), Introduction to Exceptional Children (5th Ed.), Boston, Allyn &

Paper - IV

HSB604:

CONSUMER AND BUSINESS LEGISLATION

Consumer Protection: Consumer rights, problems of Indian consumers, Legislations protecting interest of consumers, measures to promote consumerism, Consumer Protection Act, 1986 - rights of consumers.

Essential Commodities Act, 1955: Introduction, essential commodities, Powers of Central Government. Seizure and Confiscation, Sale of seized commodities, Paenalty provisions in case of contravention.

Contract Act, 1872: Definition, Essentials of a valid contract, kinds of contract, Offer and acceptance, Consideration-concept to consideration, Capacities of parties and contract by a minor.

Sale of Goods Act. 1930: Sales and agreement to sale, Essentials of contract of sale, Subject matters, Conditions and warranties, implies conditions, Shipping documents, Rights of Unpaid seller.

Local Government: Characteristics, importance and advantages; Problems before local government. Powers, authority and responsibilities of Panchayats, Election to Panchayats; Constitution of Municipalities, Powers, authorities and responsibility of Municipalities.

Suggested readings:

- 1. Meena, Malik and Junja: Business Environment, Kalyani Publishers
- Sharama, Sadana: Public Administration, Kitab Mahal
- Upadhyay, Sharma & Dayal: Business Environment, Ramesh Book Depo
- Tulsian, P.C.: Business Law, Tata McGraw Hill 4.
- Bose Chandra, D: Business Law, PHI Learning Pvt Ltd
- Kapoor,, N.D.: Elements of Mercantile Law, Sultan Chand & Sons

Paper - V

STATISTICS AND RESEARCH METHODS (Elective)

(Credit 4)

Elementary Statistics: Nature of investigation, scope, objectives. Sources of data, study tools and Techniques of Research, Frequency distributions, Mean, mode, Median, Probability, Standard deviation, Graphs., Research and Documentation, Different types of research and their application, types all data (Primary and Secondary), methods of data collection, classification and organization of data, editing and coding the data, representation of data diagrammatic and graphic presentation, techniques of construction of diagrams and graphs. Techniques of Research Writing

Seminar- 25 marks

Suggested readings:

- Bhandarkar, P.L. and Willanson T.S. 2000 Methodology and Techniques of Social Research, Himalaya
- Bhatnagar, G.L. (1990): Research Methods and Measurements in Behavioural and Social Sciences, Agri. Cole Publishing Academy, New Delhi.
- Stranss, A. and Corbin, H. (1990): Basis of Qualitative Research: Grounded Theory Procedures and Techniques, Saga Publications, California.
- चित्र एवं मनोविज्ञान में सांख्यिकी के गैरेट हैनरीई

ANCILLARY COURSE OF HOME SCIENCE FOR NON HOME SCIENCE STUDENTS OF B.SC. HND SEMESTER COURSE I

Meaning of Home Science, Importance of Home Science, Different branches of Home

Role of Home Science in solving the national problems

Introduction, terminology and classification of textile fabrics & their properties, identification

Care and storage of textiles, laundering of textiles, stain removal, labels

Factors affecting the selection of wardrobe planning, clothing, socio psychological aspects of clothing - eco management, eco mark and environmental friendly textiles

Fundamentals of Human Development - Importance of Human Development from life span

Determinants of development biological and environmental

Principles of Developments

Different stages of Human Development, Different types of Development Physical motor, Language, emotional, mental, social and personality development

Challenged children in brief

Communication- concept of communication meaning, functions, problem and barriers of

B.SC. IVth SEMESTER COURSE II

Introductory foods: their functions different food groups, Nutrients, Balanced diet, Methods of Cooking, Menu planning preservation, Adulteration, Community nutrition, Nutrition Education Programme. Brief review of Diseases.

Meaning and importance Home Management Different Steps of Home Management.

Resources: Type of Resources. Classification and characteristics of Resources.

Time and energy management

Financial Management: Money as a resource in economic welfare. Family life stages and use of money, Budget.

Principles of design: definition

Family Resource Management: Management system, concept, stages of management, process of managements, principles of management

Resources, classification, role and scope of resources

Motivation for management - values, goals, standard and origin, classification and role in management

Elementary idea about money, time, energy management

Decision making - role, process

Consumer rights, responsibilities in today's world

Elements and principles of design and their application in interiors

Extension Education: concept, meaning, philosophy, principles, aims and objectives of Extension Education

Project and non projected aids and its utility in teaching and learning.

ANCILLARY COURSE OF HOME SCIENCE FOR NON HOME SCIENCE STUDENTS OF B.SC. IIND SEMESTER **COURSE I**

Meaning of Home Science, Importance of Home Science, Different branches of Home

Role of Home Science in solving the national problems

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Fundamentals of Human Development - Importancé of Human Development from life span perspective

Determinants of development biological and environmental

Principles of Developments

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Consumer rights, responsibilities in today's world

Elements and principles of design and their application in interiors

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Extension Education

Project and non projected aids and its utility in teaching and learning.

Home Scienceabraziah -ANCILLARY COURSE OF HOME SCIENCE FOR NON HOME SCIENCE STUDENTS OF B.SC. IIND SEMESTER DEWSY Ubus COURSE I HSB-A201(4) Meanir of Home Science, Importance of Home Science, Different branches of Home Science Role o' Home Science in solving the national problems Introdution, terminology and classification of textile fabrics & their properties, identification Care and storage of textiles, laundering of textiles, stain removal, labels Factor affecting the selection of wardrobe planning, clothing, socio psychological aspects of clothi - eco management, eco mark and environmental friendly textiles Funda Tentals of Human Development - Importance of Human Development from life span persperive Determants of development biological and environmental Different stages of Human Development, Different types of Development Physical motor, Language, emotional, mental, social and personality development Communication- concept of communication meaning, functions, problem and barriers of Communication B.SC. IVth SEMESTER COURSE II HSB-A-401(4) Intro actory foods: their functions different food groups, Nutrients, Balanced diet, Methods of Cooking, Menu planning preservation, Adulteration, Community nutrition, Nutrition Education Programme. Brief review of Diseases. Meaning and importance Home Management Different Steps of Home Management. Res irces: Type of Resources, Classification and characteristics of Resources. Fine cial Management: Money as a resource in economic welfare. Family life stages and use Fan ly Resource Management: Management system, concept, stages of management. of noney, Budget! pro ess of managements, principles of management Recources, classification, role and scope of resources Mo vation for management - values, goals, standard and origin, classification and role in Elementary idea about money, time, energy management Decision making - role, process Consumer rights, responsibilities in today's world Elements and principles of design and their application in interiors Exprision Education: concept, meaning, philosophy, principles, aims and objectives of Presect and non projected aids and its utility in teaching and learning.

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M: Ph B.Sc. Home Science

Department of Home Science, Banaras Hindu University

DISTRIBUTION OF DIFFERENT COURSES AND CREDE'S IN VARIOUS SEMESTERS

	Semester - I	Credit
Course Code	Title	4
HSB101	(A)Introduction to Foods (Credit - 2), and (B) Human Development (Credit - 2)	
HSB102	Prticticals based on course HSB101	2
	То	nl 6
	Senjester – II	
HSB201	(A) Introduction to Clothing Textiles, (Credit 2) and (B) Family Resource Management (Credit 2).	.1
HSB202	Practicals based on course HSB201	
	To To	tal 6
•	Semester – III	
HSB301 🗸	(A) Home Science Extension Education, (Credit – 2) and (B) Human Nutrition (Credit – 2)	4
·11SB302	Practicals based on course HSB301	2
		,
	To	otal
	Semester – IV	
HSB401	(A) Interior Design, $(Credit - 2)$ and	
	(B) Clothing Construction (Credit – 2)	
HSB402	Practicals based on course HSB401	
p	Т	otal
ec.	Semester – V	
HSB501	Home Science Extension Education and Rural Development	(
HSB502	Consumer Economics	
H\$B503	Fundamental of Human Development	
HSB504	Diet Therapy I	,
HSB505	Fashion Designing	
HSB506	Practicals based on course HSB501 & HSB502	
HSB507	Practicals based on course HSB504	,
HSB508	Practicals based on course HSB505	

massey		Semester - VI	3
its	HSB601	Advanced Home Science Extension and Communication	
	HSB602	Diet Therapy II	3
	HSB603	Advanced Human Development	3
2	HSB604	Consumer and Business Legislation	3
6	HSB605	Statistics and Research Methods (Elective)	4
	HSB606	Practicals based on course HSB601	2
1	HSB607	Practicals based on course HSB602	2
-	HSB608	Practicals based on course HSB603	2
	:	Tot	tal 22
+	-	Grand Tot	al 68

HSB201:

INTRODUCTION TO CLOTHING TEXTILES AND

Designs: I (Credit 2) types, Bal

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Introducti

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FANILY RESOURCE MANAGEMENT Introduction: Concepts and classification of textile fibres; Natural fibres; Cotton, flax, jute, hemp, remie, si wool, asbestos, mineral fibres (attendance) wool, asbestos, mineral fibres (structure, properties and formation). Man made fibres; Rayon, acetate, nylopolyster acrylic and observed the control of the

Yarn; Classification; Simple yarn, complex yarn, fancy yarn, spun yarn, filament yarn. Twist, crimp, y Part A: 1

Weaving: Introduction to weaving, Loom, its parts and working, Basic weaves and its derivatives, Fabric co Non woven fabric construction; felts and non woven. Knitted fabric; Warp knitting, west knitted & circ

Fabric finishes: Processes of removing impurities from fabric; scouring, degumming, carbonizing, I finishes that alter texture; felting, singering, stiffening, decatazing. Surface finishes; Bleaching- Classific application of blandow to good and the control of the contr application of bleaches to various fibres & fabric, delustering, calendering, beetling, napping, flocking, but design, toposing, chamies, and the design toposing, chamies and the design toposing toposing, chamies are design to the design toposing toposing the design toposing

Functional finishes - water proofing, water repellent, shrinkage control, flame retardation, mildew proof,

Dyes and Dyeing: Classification of dyes & their applicability; Natural and synthetic dyes; Direct dye, ac basic dye, Vat dye, sulphur dye, azoic dye, mordant dye, disperse dye, reactive dye, pigments. Stages of the page and taken Calendar (2) fiber, yarn and fabric, Colour fastness of fabric for washing, perspiration & light.

Printing: Hand printing methods; block printing, stencil, screen printing, spray printing, tie & dye, bati printing. Machine printing; roller, screen printing, heat transfer printing, flock printing.

Laundry: Introduction to laundry process, materials and equipments in laundry.

Hard and soft water; Temporary and permanent hardness, methods of softening water, chela sequestering agents. Soap and detergents; Definition, chemical nature, manufacturing, properties and (Part B: action. Additives used in laundry; optical brightener, bluing agent. Starches, stiffening and softeners. of laundering; Hand washing methods, washing machine.

Stain removal: Classification of stains, principles of removal, types of stain removers, techniques of

Traditional Embroidery: Types & techniques, traditional embroidery of India, Kashida of Kashm Kantha of Bengal, Kasuti of Karnataka, Embroidery of Kutch & Kathiavar, Phulkari of Punjab, Cl Lucknow, Manipuri Embroidery, Chamba Rumal, Quilting of Bihar, Orissa. Value addition of f respect to entrepreneurship)

Management as a discipline and Science: Interdisciplinary nature of management, Stages of d Classical Organization Theory, Behavioral theory, Qualitative. Relevance to family resource Meaning, Nature and scope. Management Abilities; Principles of Management:- Technical, Concept Process of Management & functions; Planning, controlling and Evaluation. Motivation for Values, goals & standards. Decision Making; Meaning, Types of decision, Mode of decision

Resources: Type of Resources. Classification and Characteristics of Resources; National & g material, economic & non-economic. Principles in the use of resources; Scarcity utility, accessibility transferability, substitution, reverse & investment, exchange linkage. Management of Resources Energy Management, Time as a resource, time orientation and perception, planning & using effectively. Energy as resource; Identifying energy resources and factor affecting energy cont

Financial Management: Money as a resource in economic welfare; Planning, Family life money, Budget; Types, steps, advantages and disadvantages, Income; Productive income, hidden income, Savings & Capital Investment; Objective, types of saving & investment; S Scheines, Credit; Types, sources, rural, urban use of credit and credit instrument to increase urban or rural households.

Concept of Ergonomics: Scope of Ergonomics in Home and other occupation, nature of work in household and other occupations Introduction to foundation of art: Elements of design; Line, Size, Form, Structure, Space, Pattern, Shape, Light, characteristics & classifications Designs: Definition & types of structural & decorative, Principles of design; Definition & their characteristics & 2) types, Balance, Harmony, Scale, Proportion, Rhythm, Emphasis, Study of Colours; Classification dimensions, colour schemes & effect ryle **PRACTICALS**

HSB202:

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INTRODUCTION TO CLOTHING TEXTILES AND FAMILY RESOURCE MANAGEMENT

(Credit 2)

Part A: Introduction to Clothing Textiles

- Identification of fibres Visual inspection, burning, microscopic and solubility test.
- Identification of yarns.
- 3. Demonstration on part of looms & motion of loom.
- 4. Preparation of basic weaves sample. fied
 - Warp and west yarn counting in fabric.
 - Identification of fabric finishes and collection of samples.
 - Dyeing of cotton, wool & silk with natural & synthetic dyes i.e. Direct, napthol, acid, reactive etc.
 - Preparation of sample by Tie & Dye Techniques & Batik.
 - Preparation of samples by Block printing, Stencil printing, screen printing & spray printing.
 - 10. Bleaching, whitening & starching.
 - 11. Stain removal.
 - 12. Laundry of cotton, silk, wool & synthetic.
 - 13. Making samples by using contemporary embroidery & samples of traditional embroidery.
 - 14. Visit to weaving centre & any one museum.

ıd Part B: Family Resource Management

- 1. Preparation of colour wheel & colour scheme
- 2. Flower arrangement/Different areas
- 3. Study of elements of arts
- 4. Study of principles of design
- Study of various types of cheques and sawing schemes
- Work simplification techniques 6.

Suggested readings:

- Dulekar Durga (1976): Household Textles & Laundry Work, Delhi, Atmaram & Sons
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- lkfo=h iafMr ,oa 'kf'kdyk f'kans] Hkkjrh; d'khnkdkjh] xksfoUn oYyHk iar d'f'k ,oa izkS|ksfxd
- 4. Hallen & Saddler, Textiles, Macmillan Company, New York.
- 5. Nickell and Dorsey, 1976. Management in Family Living (4th Ed.) Wiley Eastern Limited, New Delhi
- Gross, Crandall & Knoll, 1980, Management for Modern Families, Prentice Hall, Inc. Englewood
- 7. Grossack, I.M. & Martin, D.D. (1980): Managerial Economics, Little Brawn & Co.
- 8. Adhikari, M. (1978). Economic Environment of Business, Sultan Chand
- 9. Shukul & Gandotra: Home Management and Family Finance
- 10. डॉ. मंजू पाटनी ' गृह प्रवंध
- 11. डॉ. मंजू पाटनी : आवास गृह सज्जा एवं घरेलू उपकरण
- 12. करुना शर्मा : आवास एवं आंतरिक सज्जा
- 13. डॉ. रीना खन्जा : गृह प्रवंध, साधन व्यवस्था एवं आंतरिक सज्जा
- 14. डॉ. जी पी. शैरी : गृह व्यवस्था एवं गृह कला

SEMESTER - III

HSB301:

Paper - III

HOME SCIENCE EXTENSION EDUCATION

AND HUMAN NUTRITION

(Credit 4)

Section A:

HOME SCIENCE EXTENSION EDUCATION

(Credit 2)

Extension Education: Concept, meaning, philosophy, principles, aims & objectives of extension education. Brief History of extension activities in India (present and past Independence), Extension Teaching Methods, Difference between formal & extension education, Steps in extension teaching

Classification of extension teaching methods according to different criterias; according to use, form & nature, function, steps in extension teaching, Learning Objectives, Innovation Decision Process, Adoption process, Adopter's Category, Combined use of extension teaching methods (purpose, significance & types of combinations), Types of demonstrations (method, result & combined demonstration), Group Discussion, Campaign, Teaching Through Village Leaders, Criteria for Selection of Extension Teaching Methods, Factors affecting Extension Teaching Methods. Traditional Folk programmes, Educational Psychology & its application to extension education, Concept, meaning & aim of education psychology, Relationship between educational psychology & extension education, Objective and contribution of Psychology, Intelligence, emotions & motivation (concept, related Theories, types, importance, use in extension teaching), Psychology of Learning; Definition, meaning & concept of Teaching, Principles of Teaching; Qualities of a good Teacher, Guidelines for the teacher, Teaching plan (method of preparation, essentials & precautions), Teacher evaluation (concept & criterias), Some psychological terms & their definition; Attention & Perception, Thinking, Conflicts, Psychological barriers, Propaganda

Communication: Concept of communication - meaning, functions, problems & barriers, Elements of communication process, Communication media – meaning, classification, advantages & limitations, Importance of communication in extension work, Communication Models, Functions of Communication, Communication Channels, Communicator - Communicate relationships: Orientation, Empathy, Feedback, Physical Interdependence, Credibility, Interaction, Homophily, Heterophily, Feedback in communication & role of feedback in Extension Education, Communication and extension approaches; Individual approach, Group approach, Mass approach.

H.Sc. Extension: Concept, meaning of H.Sc. extension, History of H.Sc. extension education, History of H.Sc. extension education in India.

Section B: HUMAN NUTRITION

(Credit 2)

Concept of Nutrition: Relation of nutrition to health, optimum nutrition, adequate nutrition, malnutrition, growth of the Science of nutrition with particular reference of India. Composition of human body, structure and functions of digestive organs, excretion of waste products, study of urine, sweat and faeces, blood body fluids and hormones, Microscopic study of stomach, tissues of human body, digestion absorption and metabolism of foods. Brief history of Nutritional Science, Scope of Nutrition. Minimal Nutritional requirements & RDA -Formation of RDA and Dietary guidelines - Reference Man and Reference Woman. Human Body Composition and Changes through the life cycle. Energy in Human Nutrition - Energy Balance, Assessment of Energy Requirements, Deficiency & Excess.

Introduction to Biochemistry - Definition, objectives, scope

Carbohydrates: Definition, classification, structure and properties, Digestion and Absorption, Blood glucose and effect of different carbohydrates on blood glucose, Glycemic Index, Significance of Dietary Fibre.

Proteins - Definition, classification, structure & properties of : amino acids - Essential & non-essential & proteins: Assessment of protein quality (BV, PER, NPU), Protein Energy Malnutriton (PEM).

Lipids - Definition and classification, structure, properties, significance of acid value, iodine value and saponification value, Digestion & absorption.

Vitamins: Fat soluble and Water soluble Physiological role, broavailability, requirements, sources, deficiency

Minerals & Trace Elements - Physiological role, bio-availability and requirements, sources, deficiency and excess (Calcium, Phosphorus, Magnesium, Iron, Fluoride, Zinc, Selenium, Iodine, Chromium).

Water & Electrolyte: Functions, Requirements.

Enzymes: Definition, Types & Classification of Enzymes Community Nutrition: Community Nutrition or a field; Public Health Nutrition, Goals for Nutrition programmes, planning, implementation and evaluation of nutrition education programme, food fads & food

pits. Introduction to national nutrition programmes & policies, Integrated Child Development (NREP);
DS); National Rural Development Programmes (NREP);
Iscellance DS): National Rural Development Programmes & policies, Integrated Child Development (NREP); National Rural Development Programme (NRDP); National Rural Employment programmes in community nutrition; iscellaneous monofocal programmes. Iscellaneous monofocal programmes. Role of international agencies and programmes in community nutrition; lod & Agriculture Organization (FAO). Well (Isable Organization (WHO): United Nations Childrens Fund od & Agriculture Organization (FAO); World Health Organization (WHO); assessment of human groups; NICEF); Other voluntary & novascatal Direct puritional assessment of human groups; NICEF); Other voluntary & government agencies. Direct nutritional anthropometry: Biochemical tests biochemical tests biochemical tests clinical signs; individual nutrient deficiencies. utritional anthropometry; Biochemical tests; biophysical tests; clinical signs; individual nutritional assessment of et Survey methods at national inclinical tests; biophysical tests; clinical tevel. Indirect nutritional assessment of let Survey methods at national, institutional, family and individual level. Indirect nutritional assessment of man groups: Indicators and their user health relievels indicators; social and economic indicators, indicators of iman groups: Indicators and their use; health policy indicators; social and economic indicators, indicators of e provision of health care; coverage by e provision of health care; coverage by primary health care; basic health status indicators.

PRACTICAL'

ISB302:

HOME SCIENCE EXTENSION EDUCATION AND

(Credits 2)

- Preparation and use of following aids; Circular letter, Lealflet and Pamphlet, News paper, Flash cards, Poster, Chart Part A:- Home Science Extension Education
 - Visiting Exhibition/media in community and preparation of report.
 - To get familiar with use and care of projected aids.

- Preparation of dishes rich in: Energy, protein, fat, fiber, calcium, iron, vitamin A, vitamin C, thiamine, riboflavin and piecis Part B:- Human Nutrition
 - Reaction of mono, Di and polysaccharides and their identification in unknown mixtures, lodine test for cooked and uncooked area. 2.
 - cooked and uncooked starch & dextrin. Reactions of different types of fats (saponification and iodine value) 3.

 - Study of microscopic structure of tissues, liver, kidney, stomach, intestine, blood 4.
 - Evaluation of nutritional status: By Anthropometry survey, Dietary survey 5.
 - Other determinants of family nutrition: Socio-economic status survey, using SES scale, Weaving 6.
 - Dietary practices, fads and fallacies during illness, pregnancy, lactation and other special conditions. practices, Immunization practices, Sanitary practices. 7.
 - Assessment of nutritional status using above criteria in a community set up and report writing. 8. 9.

Suggested readings:

- 1. Reddy A, Extension Education, Bapatia, India, Shree Laxmi Press
- Pillai K.S., ABC of Non-formal Education, ITB Indraprastha Estate, New Delhi, India Adult Education
- 3. Dhama O.P. & Bhatnagar O.P., Education & Communication for Development, Oxford & I.B.H.
- Sampath K., Pannirselvam A., Santhanam S., Introduction to Educational Technology, New Delhi,
- Swaminathan M. (1985): Essentials of Food and Nutrition, Vols. 1 & II, Ganesh & Co., Madras
- 6. Indian Council of Medical Research (1989): Recommended Dietary Intakes for Indians
- Indian Standards Institution (1985): ISI Handbook of Food Analysis, Parts I to XI, Manak Bhawan,
- Sundararaj P and Siddhu A. (1995): Quantitative tests and Quantitative procedures in Bio-chemistry -A practical manual, Wheeler Publishing
- Lehninger A.K., Nelson D.L. and Cox M.M. (1993), 2nd Ed. Principles of Biochemistry, CBS Publishers and Distributors
- 10. Guyton A.C., Hall J.E. (1996): Textbook of Medical Physiology, 9th Ed. Prism Books (Pvt.) Ltd.,
- 11. Obert J.C. (1986) Community Nutrition, 2nd Edition, MacMillan Publishing Co., New York

Paper IV

INTERIOR DESIGN AND CLOTHING CONSTRUCTION HSB401:

(Credit 4) (Credit 2)

Housing: Family's Housing Needs, Protective, economic, affectional, social standard of living housing goa style, function, occupation. Formula 19 style, function, occupation, Factors influencing selection and purchase of site for house building. Legal aspectocation, physical features, soil - 1000 location, occupation, Factors influencing selection and purchase of site for house plans Grouping location, physical features, soil conditions, cost, services, House Planning, Reading house plans Grouping rooms, orientation, circularly rooms, orientation, circulation, flexibility, privacy, spaciousness, services, aesthetics, economy light a ventilation

Planning different rooms: Living room, dining room, bedrooms, kitchen, store room, toilet, passage, stairca Financial Consideration & Corporation Financial Consideration, Availability of funds for housing, Housing Development Finance Corporation Connective Housing Services Services and Availability of Funds for housing, Housing Development Funds for Provident Fundamental Connective Housing Services Cooperative Housing Society, Life Insurance Corporation, Cooperative Banks, Loan from Provident Full Finance Corporation of the Finance Corporation of India, Residential structural features of architecture

Foundations, footing, plinth, beams, columns, walls, slabs, floor, ceiling, window, doors, staircase, Types building materials and the columns of the column building materials and its characteristics & uses, Gardening plan & indoor gardening, State & Central House Scheme: National House of the Control Act and Cic Scheme; National Housing Policy, Urban Land (Ceiling & Regulation) Act, 1976, Rent Control Act and Ge Policies & Programmer II Policies & Programmes, Housing problems, causes and remedial measures, Housing Standards & Legislation

Interior Planning & Decoration: Introduction to interior planning & decorations

Application of elements and principles of design in interior planning and decoration, Furniture; Furniture des

Styles of furniture; Traditional, contemporary and modern, Selection of furniture for comfort, rest & relaxation work for storage. A second of furniture for comfort, rest & relaxation of furniture for comfort, rest & relaxation of furniture. for work, for storage, Arrangement of furniture for living, sleeping, dining and multipurpose rooms, Upholste furniture materials, testing, dining and multipurpose rooms, Upholste furniture materials, techniques and designs, Furnishing Fabrics, Types of curtains; Draperies, floor covering rugs and carpets, cushion covers, slip covers, bed linen and table linen

Selection and use, Functional & decorative accessories for interiors, painting, sculpture, pots etc., Lighting interior; Lighting plans for illumination and special effects, Lighting sources; Developing a lighting plan different areas, Kitchen Modular Design; Types of kitchen, Kitchen Geometry; Work height of different w areas and storage areas, space dimensions of different work centres and work areas, Materials; Floor, wi sink, ceiling and its characteristics, platforms, storage etc., Types of finishes, Essetial services needed

Water supply, Hot & cold, tap fittings, water purifiers, Electricity services; electricity current, air purifier, M fuses, exhaust, Drainage services; Waste water drainage system, waste disposal, cleaning agents & equipment Light: Introduction to light, properties of light, velocity of light. To study the different type housely

equipments (mixer greider, electric iron, toster, geyser, water heater, washing machine and microven)

Cleaning and care of different materials; Metal, glass, wood, paints, upholstery, floor & floor coverings.

Traditional textiles and costumes of India, Dyed & Printed textiles of India; Kalamkari, Patola, Pochamp Ikat of Orissa, Tie & Dye of Tamil Nadu, Woven Textiles of India; Brocades, Shawals of Kashmir, Muslin Bengal, Silk of Karnataka, Cotton of Kerala, Woven sarees of different states of India, Traditional Costume India; Costumes of Men & Women & Traditional marriage costumes of different states of India (Detail) costumes, jewellery & accessories), Elements and Principles of design as applied to apparel designing, Fig. types, silhouettes, Sewing equipments and other tools required for drafting, cutting, stitching, sewing mach types, simulates, serving equipments and other took required to drating, enting, serving machine, simulates, serving equipments and other took requirement; Anthropometric measures and method of tall Part of machine, their use, care & remedy, Body measurement; Anthropometric measures and method of tall body measurement for different garment, General construction techniques for garment; Drafting, folding, out, marking and cutting of pattern pieces, Essentials of Children's Clothing, Importance of Cloth Psychological effect of clothing on children, Effect of clothes and child's growth, Sociological & Psychological aspects of clothing, Drafting of Jhabla, Baby frock, plain frock, shirt, trouser.

Pattern Making: Techniques of flat pattern making, Principles and application of flat pattern for diffe rattern making: rechniques of that pattern making, ranciples and appreciation of that pattern for different styles of bodies, skirt and sleeves, slash & spread method. Fabrics for garment making; Handling of different styles of toylors and appreciation of that pattern for different styles of toylors. styles of notices, Skill and Siecros, Stash to Spical memori, Fauthor for spical making, randing of different types of fabrics, selection of fabric for different garment. Sources of inspiration for appeal designing for different garment. types or material required for different garment. Sources of inspiration for apparel designing fashion and cur

Seams: Types of seam, Seam finishes (Darts, Tucks, Pleats, Gather, Yokes, Pockets, Collars, Loops & fasting Seams: Types of seam, Seam finishes (Darts, Tucks, Pleats, Gather, Yokes, Pockets, Collars, Loops & fasting Seams: Types of seam, Seam finishes (Darts, Tucks, Pleats, Gather, Yokes, Pockets, Collars, Loops & fasting Seams: Types of seam, Seam finishes (Darts, Tucks, Pleats, Gather, Yokes, Pockets, Collars, Loops & fasting Seams: Types of seam, Seam finishes (Darts, Tucks, Pleats, Gather, Yokes, Pockets, Collars, Loops & fasting Seams: Types of seam, Seam finishes (Darts, Tucks, Pleats, Gather, Yokes, Pockets, Collars, Loops & fasting Seams: Types of seam, Seam finishes (Darts, Tucks, Pleats, Gather, Yokes, Pockets, Collars, Loops & fasting Seams: Types of seam, Seam finishes (Darts, Tucks, Pleats, Gather, Yokes, Pockets, Collars, Loops & fasting Seams: Types of seam, Seam finishes (Darts, Tucks, Pleats, Gather, Yokes, Pockets, Collars, C Seams: Types or seam, Seam Timones (Dates, Tuenes, Tones, Tones, Tones, Tones, Tones, Loops & fasti Trimmings, Stay Stitching, Lining, Neckline, Interlining, Top Stitching, Facing, Interfacing), Sewing supplied

4) PRACTICAL (Credits 2) 2) HSB402: INTERIOR DESIGN AND CLOTHING CONSTRUCTION Part A :- Interior Designing gog sped Learning architectural symbols ing Drawing of house plans for different income levels n a Planning of different kitchen layouts (considering various kitchen sizes) Study of furniture detailing irea ratio Furniture layout for different rooms & drawing of designs Fu Interior design for small flat/large residential space/different rooms Visit to hotels, restaurant, conference hall to study interior designing pattern (any one) pes Part B:- Clothing Construction ous Cid Visit to museum & report writing on traditional textiles of India. ion Group Discussion on traditional costumes of India. Illusion of different garment on Silhoultee. desi Preparation of Bodice block, adult. Drafting of sleaves basic & variation. ixat Drafting of collar & its variation Iste Construction of frocks, trouser, shirt. erin Preparation of samples of seams dart, tucks, pleats, pockets, collars, loops, fastner. Sketching of designs of variation in frocks. ting lan Suggested readings: I W 1. Cherunilam, Frances & Heggade, Odeyan; D (1987): Housing in India, Bombay, Himalaya Publishing Wa House :d 2. Again Tessie (1970): The House: Its Plan & use, New York, J.B. Lippincott Co. , M Deshpande R.S. (1980): Modern Ideal Homes for India (9th Ed), Smt. L.S. Deshpande for Deshpande าอก **Publications Trust** iseli 4. Deshpande R.S. (1980): Building your own House, United Book Corporation National Building Organization - Monograph of Housing Statistics Ball Victoria Kloss (1982): Art of Interior Design, John Wiley & Sons (2) 6. 7. Ruth Morton: The Home and its furnishings, U.S.A. McGraw-Hill, 1953 mp slin Complete Guide to Sewing, The Reader's Digest Association, Inc., Pleasantville, New York/Montreal, ıme Canada tail 9. Pandit Savitri, Manual for Children's Clothing, Orient Longman Limited, Bombay Fis ach 10. Zarakkar K.R.; Zarakkar System of Cutting, Bombay f tal 11. Doongaji (1975): Basic Process & Clothing Construction, New Delhi, Raj Book Dep. ng, loth 12. Brij Bhushan, Jamila: The Crafts of Weavers, The Costumes & Textiles of India, D.E. Tarapore Valla olog Sons & Co. 13. Gandotra & Patel: Housing for Family Living iffe 14. डॉ. मंजू पाटनी : गृह प्रयंध 15. डॉ. मजू पाटनी : आवास गृह सज्जा एवं पहेलू उपकरण 15. करुना शर्मा : आवास एवं आंतरिक राज्जा 16. डॉ. रीना खनूजा : गृह प्रवंध साधन व्यवस्थ एवं आंतरिक सज्जा 17. डॉ. जी.पी. शेरी ्मृह व्यवस्था एवं गृह कला

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Paper - I
HOME SCIENCE EXTENSION EDUCATION AND RURAL DEVELOPMENT Community Development: Meaning, objectives, organization of Community Development, Scope of Community Development Programme Pr Community Development Programme Types of Community Development Programme: Various community development programmes, Gove sponsored development programmes, Govt. sponsored programmes for family development, DWCRA, IRDP, NREP, RLEGP, TRYSEM etc. (source of foodbase) RLEGP, TRYSEM etc. (source of funding), Panchayati Raj & Democratic Decentralization, et longertance of Panchayati Raj, Organization of Panchayati Raj, Organizati Raj, Organization of Pancha evolution of Panchayati Raj, Organization of Panchayati Raj & Democratic Decentralization, Consequence of Panchayati Raj Institutions, Functions & Importance of Panchayati Raj Institutions, Functions & Importance of Five in rural development, Five Year Plans Consequence and Institutions, Functions & Importance of Five in rural development, Five Year Plans Consequence and Institutions of Five in rural development, Five Year Plans Consequence and Institutions of Five in rural development, Five Year Plans Consequence and Institutions of Five in rural development, Five Year Plans Consequence and Institutions of Five in rural development, Five Year Plans Consequence and Institutions of Five in rural development, Five Year Plans Consequence and Institutions of Five in rural development, Five Year Plans Consequence and Five in rural development, Five Year Plans Consequence and Five in rural development, Five Year Plans Consequence and Five in rural development, Five Year Plans Consequence and Five in rural development, Five Year Plans Consequence and Five in rural development in rural development, Five Year Plans Consequence and Five in rural development in rural developmen in rural development, Five Year Plans, Concept & evolution of Five Year Plans. Major contribution of Five Year Plans in rural development. Year Plans in rural development, Leadership Development, Concept & definition of leader & leadership, Types of leaders; Principles of democratic leadership. of leaders; Principles of democratic leadership, Personality Dynamics of leader, Functions of a leader, Factors determining effectiveness of leader, Palacett determining effectiveness of leader, Role of leader in group mobilization, Gender and Development, Concept of development, Indicators for development development, Indicators for development, Women as a partner in the development & empowerment planning, Approaches of Development (11) planning, Approaches of Development, Shifts from welfare approach to development Role of National approaches, National efforts for David approaches, National efforts for Development of Women; National Policy on Women, Role of National Commission for Women

Rural Sociology: Concept, meaning, definition of Rural Sociology, Nature & scope of Rural Sociology, Rural Sociology in India; Origin & douglosman, India; Origin & douglo Sociology, Study methods of Rosal Sociology, Study methods of Rosal Sociology, Study methods of Rosal Sociology in India, Subject matter of Rosal Sociology, Study methods of Rosal Sociology, Study methods of Rosal Sociology Sociology, Study methods of Rural Sociology, Functions & utility of rural Sociology, Rural Social System, Indian Village (meaning & concept). Indian Village (meaning & concept), Characteristics of Rural Society, Rural and Urban life, Rural Social Problems, Indian rural social expenses. Problems, Indian rural social structure, Rural development and programme; Integrated Rural Development Programme, Rural Reconstruction & planting Programme, Rural Reconstruction & Planning

Suggested readings:

- Patnayak Rama, Rural Development in India, New Delhi, Vikas Publishing House Pvt. Ltd. ١.
- Thingalaya N.K., Rural India Real India, Bombay, Himalaya Publishing House
- Indian Journal of Extension Education, The Indian Society of Extension Education, Division
- Desai, Vasanth, Rural Development Programme & Strategies, Bombay, Himalaya Publishing House 3.

Paper - II

(Credit 3)

Family organization: Family as a basic institution, Suructure of Indian Families-urban and Rural family

Consumer Economics: Definition, usefulness and importance of the subject. Survey of living standards of a

Standards: Principle of family's standard of living. Concept of standard of living method to raise standard

Human wants & Utility of commodities: Factors governing wants. Theory of wants, classification of war Principles of substitution of relation, utility-law of diminishing marginal utility. The principle of equimargi utility as the object of household expenditure, consumers, surplus.

Family Finance: Type of income-money, real, psychic

- Sources of money income wages and salaries, Profit. Interest and Rent. Transfer Payments. Royalt
- Sources of real income. Money spent in exchange economy. Household production. Free goods 2.
- Regular and irregular income. Substitutions of other resources for money. Methods of handling inc

Expenditure: Family budget its main items, Engle's law of consumption, kinds of household consumption. Market: Recognition, type of markets functions distribution, role of consumer in market. Price determine under monopoly and competition. Rationing and price control.

Price of Commodities: Fundamental ideas. Fixation of price. Price as a guide to quality. The role of consumer in in-crease and decrease of the consumer in influencing inflation. in in-crease and decrease of prices. Causes of inflation-role of consumer in influencing inflation. ıť Market, Supply & demand: Market Schedule, law of demand electricity of demand. Types of advertising: Newspaper, magazines direct advertising, radio and television, Outdoor advertising: Advantages & cliendard research advertising radio and television, Outdoor advertising: 9. at 10 Entrepreneurship: Concept and frame work, features, classification of entrepreneurship, entrepreneurship es theories, contribution of entrepreneurship and economic development)TS Suggested readings: Οf 1al 1. Gordon Lee (1972), Economics for Consumers, D. Van Nostrand Company, New York 2nt al Singh Gurbax (Comp) (1990): Law of Consumer Protection, Jaipur, Bharat Law Publishers Kewal Krishan Dewett & Adarsh Chand (1981): Modern Economic Theory, 12th Ed., Shyamlal tral mal Gupta B.D. (1973), Consumption Pattern in India, Tata McGraw Hill im cial Smt. B. K. Bakhshi: Consumer Economics (Hindi) ient Dr. Tripathi: Consumer Economics (Hindi) Dr. Naresh Tripathi: Consumer Economics (Hindi) Dr. Dubey and Sinha: Consumer Economics (Hindi) 9. Smt. B. K. Bakshi: Consumer Economics (Hindi) 10. Dr. Tripahi: Consumer Economics (Hindi) 1 e PRACTICAL HSB506 (BASED ON HSB501 AND HSB502) Part A: HOME SCIENCE EXTENSION EDUCATION AND RURAL DEVELOPMENT (Credit 3) Visit to a village to gain knowledge through standard questionnaire about; 3) (a) The Rural Society .nıi (b) The Gram Panchayat, Regional Committee 1/4 (ks=h; Ifefr1/2 at block level and their functioning. of a To know about different programmes running for rural development and interaction with villagers. Observation of development programmes running in the village and intraction with villagers and personnel ard Educational tour to institutions related to the course. war Part B: CONSUMER ECONOMICS argi Study of merits and demerits of unclear family and joint family. Impact of advertising on consumer buying on children and women/ society. Collection of various advertisements and classification by identifying intended consumer appeal. yalt Make a list of sources of income in your family. Draw up a personal budget. ods Assignments- Assign projects to the students to present new idea of enterpreneurship. inc Paper - III FUNDAMENTAL OF HUMAN DEVELOPMENT HSB503: Methods of studying Human Development: (case study interview, naturalistic observation and laboratory min Methods of studying ribbins between the study interview, naturalistic observation and laboratory observation). Experimental methods, Data collection methods (cross sectional and longitudinal and sequential Introduction to theories of Human Development: Piagets's theory of Cognitive Development. Psycho: Introduction to theories of Traditional Jeaning theories (Paylov, Warson and St. ego and super

sexual theory of Sigmunu inter (better the son. Traditional learning theories (Pavlov, Watson and Skinner). Social ego). Psychosocial theory of Erik, Erik son. Traditional learning theories (Pavlov, Watson and Skinner). Social ego). Psychosocial theory of Link, Electric of Moral Development, Theories of language acquisition.

on.

Mardow's sell actualization Theory. Attachment theory of Booking The projetions of helicones percent concept formation, reasoning and thinking Imagination, treatively memory, recognitional and he person Intelligence Motivation and Learning

Enrly Childhood Education and Management Meaning importance and origin in holis objective at Principle of ECCE, philosophy of Early Childhood education (Pre-basic Laboration of Lendby). For Montessori, Giju Bhui Vadika, Frobel). Early childhood education centers: Infrastructure and Administration Stall building and Equipment, record keeping, patent teachers meeting, Currection for 1441 cents Importance of Science, nature, music, role plays and stories in ECCF programme, Diskers to being and points

children. Child Guidance & Counseling: Meaning, nature, scope & objectives of child guidance & connecting serviprincipals of Guidance & Counseling, types of Guidance & Counseling, Educational, Vocassal, Occupant Personal and Behavioural, pre-marital and marital counseling, different stages of guidance and coasseling of of counselor, ethics of guidance and counseling.

Assignment on any one topic selected from theory course and presentation of the same (For theory sessional only)

Suggested readings:

- 1. Gangrae K.D. (1971), Community Organization in India, Popular Prakashan, New Defai
- State of World Children, UNICEF, Annual Publication
- Parakesh B.S. (1985), Population Education Inception to Institutionalization, NCERT, New Della
- Bernard H.W. & Fullner D.W., Principles of Guidance, Bombay, Alfied Publishers
- Verma Hildebrand (1985) Guiding Young Children, New York, MacMillan Publishing Company
- Hallan D.P. & Kauffman T.M. (1991), Introduction to Exceptional Children (5th Ed.), Beston, Allyt.

Paper - IV

Basic concepts of diet therapy: Therapeutic adaptations of normal diet, principles and classification therapeutic diets. Team approach to health care. Assessment of patient's needs. Routine Hospital Diets: Re

Energy modifications and nutritional care for weight management, Identifying the overweight and ctiological factors contributing to obesity, prevention and treatment, low energy diets, balanced reduction. Underweight; Aetiology and assessment, high energy diets for weight gain, anorexia nervo bulimia, Diets for Febrile conditions, infections and surgical conditions

Etiological factors, symptoms, diagnostic tests and management of GI tract disease - Diseases of cesop gastric and duodenal ulcers, diarrhoea, steatorrhoea, diverticular disease, inflammatory Bowel Di Ulcerative Colitis. Flatulence, Constipation, Irritable Bowel Syndrome, Hemorrhoids, Celiac sprue, T sprue. Nutritional Anemias, Sickle cell Anemias. Viral Hepatitits, Cirrhosis of Liver, Hepatic Encephale Wilson's disease. Dietary care and management in diseases of Gall Baldder and pancreas - Cholela cholecystitis, cholecystectomy, Pancreatitis etc.

PRACTICAL

(Cred

DIET THERAPY I HSB507:

Planning and preparation of Normal diet.

High-Risk Management (hospital based) - Nutrition assessment.

Clear fluid preparations. Full fluid preparations. Planning and preparation of fluid diet-clear and fu

Planning and preparation do Recipes of soft/semi-solid diet,

Mechanical, pureed, Planning and Preparation of soft diet. Planning and preparation of recipes using protein concentrates, sugar substitutes, low fat and lot recipes, high fibre recipes, bland diet recipes and diets for the following conditions:

Constipation, malabsorption, syndrome, viral hepatitis, liver

Cirrhosis, cholecystitis, nutritional anaemias

:11 Suggested readings: Anderson, L., Dibble, M.V., Turkki, P.R., Mitchall, H.S., and Rynbergin, H.J. (1982): Nutrition in Health and Disease 17th February 1988. Aar Itio nter Health and Disease, 17th Ed., J.B. Lippincot & Co. Philadelphia. Antia, F.P. (1973): Clinical Dietetics and Nutrition, Second Edition, Oxford University Press, Delhi iidii Mahan, L.K., Arlin, M.T., (1992): Krause's food, Nutrition and Diet Therapy, 8th Ed. W.B. Saunders Company, Leastern rvi Robinson, C.H., Lawler, M.R., Chenoweth, W.L. and Garwich, A.E. (1986): Normal and Therapeutic Company, London. ioi 3, 1 Williams, S.R. (1989): Nutrition and Diet Therapy, 6th Ed. Times Mirror/Mosby College Publishing. Nutrition, 17th Ed., Macmillan Publishing Co. Raheena, Begum (1989): A textbook of foods, nutrition and dietetics. Sterling Publishers, New Delhi. St. Louis. Joshi, S.A.(1992): Nutrition and Dietetics, Tata Mcgraw Hill Publications, New Delhi. Paper - V (Credit 3) **FASHION DESIGNING** HSB505: alhi 1. Pattern making: Techniques of flat pattern - principles and application of flat pattern for different styles Introduction to draping & draping of bodice block or dress form Developing paper pattern, pattern lly envelop, guide sheet and understanding the commercial paper pattern iii. Fitting; Factors affecting good fit, problems and remedies Dart manipulation Principles of figure drawing & sketching of body features, block figure. Drawing the form with lit different angles, Front, side, back Drafting and stitching of salvar, kurta, blouse, petticoat, night suit (any three) ati Re vi. Dart-manipulation vii. Component of fashion; Silhouttee, details, colour, fabric, texture, seams, trims. viii. Study of Fashion Terminology, concept, fashion cycle vc Fashion forecasting Portfolio development SOF Detailed study of Industrial machine & equipments used for Cutting, Sewing, Finishing, D , T Embellishment. PRACTICAL hal lel (Credit 2) FASHION DESIGNING HSB508: Preparation of bodice block Preparation of patterns by draping red Preparation of patterns by flat pattern Dart manipulation Preparation of block figures. 5. Sketching of fashion figures with different angles 1 fu Sketching of fashion figure & designing of garments using fashion components Portfolio development Study of industrial machine and equipments related to sewing, cutting and finishing 10. Preparation of two designer garments Suggested readings: Armstrong, Helen Joseph : Pattern making for Fashion Design, Harper Collins Publishers, New York Bane A.: Flat Pattern Design, Mcgraw Hill Goldsworthy. M.: Simple Dress-making, London, Mills & Boon Ltd Allen, Anne & Seaman Jullian : Fashion Drawing : Basic Principles, B.T. Batsford, London 88

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Paper - 1

HSB601;

ADVANCED HOME SCIENCE EXTENSION AND COMMUNICATION

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Adult Education (A.E.): Formal, non-formal & Informal system of education, Concept, background, mean & definition of A.L., Aim & objectives and goals of A.L., Role of Adult education in National Development History of adult education in Post-Independent India; Gram Stikshan Mohim, Farmer's functional liter project, Non-formal education for youth (NAEY), National adult education programme (NALP), State a education programme (SAEP), Adult education through voluntary agencies, National Literacy Mis-(Achievement & Problems), Literacy scenario of mation, state, district & local areas. Choice of language literacy, dialects Vs standard.

Community participation in A.E.: Training for Development, Concept, meaning & types of training Institutional, Interactive, Participatory, Various Training Approaches; Creativity Training, Field Irain Group dynamics, Laboratory Training, Motivation Training, Self awareness & self development, Technique Training including RRA, PRA.

Genesis & growth of Folk and Electronic media in India: Types of folk media, folk music & dances. theatre & its educational value, role of puppetry & different types of puppets, importance of folk med development context & criteria for selection of tolk media. Concept, meaning & role of electronic meaning with the properties of the prop various forms of electronic media (broadcast media, T.V., film media), their development in India, Typi programmes, their use in extension work, feedback mechanism for all types of electronic media.

Advertisement and Visual Publicity: Meaning, importance & role of visual communication and print of type of printing (Design & layout), press & public relations, law related to press, agencies governing regula-& ensuring freedom of press, concept & meaning of graphic art, editorials, principles of editing. Advertisia a mass communication process, Need for advertising communication, economic & social effect of adverti Types of advertising media; print media, broadcast media, outdoor advertisement (hoardings, posters, bill b bulletin board, electronic signs, litterbins, aerial methods, wall magazines), transportation media (ne vehicles), exhibitions & trade fairs, non-media advertising, Techniques of Advertising; choosing content, & design, media planning, Ethics in Advertising, Programme Planning, Meaning, need & principles, Ste programme planning, Criteria for good programme planning, Execution, monitoring & evaluation of exte programme

Project Planning & Management: Meaning & concept of project, Components of project management sy Steps for designing the project, Proposal writing, Cost estimation & financial management, Fund raising.

PRACTICAL

HSB606:

ADVANCED HOME SCIENCE EXTENSION AND COMMUNICATION

(Credit

- Plan a programme keeping in mind the steps of Programme Planning.
- Proposal writing
- Organizing a Fair/Mela/Exhibition.
- **Excursion Tour**

Suggested readings:

- 1. McGivney, Veronica & Murray, Frances: Adult Education in Development Methods & Appril for Changing Societies, 19 B, De Mant Fort Street Leicester LE, U.K. National Institute of Al Continuing Education
- 2. Lynton Rolf P. & Pareek Uday, Training for Development Homewood, Iwrois, Dorsey Press
- Jain R, Mass Media & Rural Development, Vol. II, New Delhi, Mank Publication Pvt. Ltd.

Paper - II

DIET THERAPY II HSB602:

Diabetes Mellitus: Classification, Symptoms, diagnosis, Insulin therapy, Oral hypoglycemic agents, Q monitoring at home. Dietary care and nutritional therapy, meal plan (with and without insulm). Special foods, Sweeteners and sugar substitutes. Diabetes in pregnancy, elderly, surgery, illness. Diabetic coma, reaction. Juvenile Diabetes. Patient education, hypoglycemia.

Diseases of the cardiovascular system; Atherosclerosis: Etiology and risk factors. Hypertension; Etiology, prevalence, nutritional manufacture of the cardiovascular system; Atherosclerosis: Etiology and risk factors. Classification, etiology, prevalence, nutritional management and prevention. Diet in kidney diseases; Classification, etiology, Diet in kidney diseases; Acute and chronic, Nephrotic characteristic symptoms and dietary management in: Glomerulonephritis: Acute and chronic, Nephrotic syndrome. Her of roding

Allergies: Definition, symptoms, diagnosis and dietary management. Food selection. Food allergy in infancy.

Surgery, trauma and burns: Physiological changes in relation to trauma. Assessment of the nutritional status in surgical and burns: Physiological changes in relation to trauma. in surgical and burns patients. Pre-operative and post-operative nutritional care. Nutritional care in trauma.

Inborn errors of metabolism: Thyroid and parathyroid glands. Gout. Interactions between drugs.

Suggested readings:

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- 1. Anderson, L., Dibble, M.V., Turkki, P.R., Mitchall, H.S., and Rynbergin, H.J. (1982): Nutrition in Health and Disease, 17th Ed., J.B. Lippincot & Co. Philadelphia.
- Antia, F.P. (1973): Clinical Dietetics and Nutrition, Second Edition, Oxford University Press, Delhi
- 3. Mahan, L.K., Arlin, M.T., (1992): Krause's food, Nutrition and Diet Therapy, 8th Ed. W.B. Saunders
- 4. •Robinson, C.H., Lawler, M.R., Chenoweth, W.L. and Garwich, A.E. (1986): Normal and Therapeutic
- 5. Williams, S.R. (1989): Nutrition and Diet Therapy, 6th Ed. Times Mirror/Mosby College Publishing,
- 6. Raheena, Begum (1989): A textbook of foods, nutrition and dietetics. Sterling Publishers, New Delhi.
- Joshi, S.A.(1992): Nutrition and Dietetics, Tata Mcgraw Hill Publications, New Delhi.

PRACTICAL

(Credit 2)

HSB607:

- 1. Review of existing practices in hospitals. Oral supplements indigenous/home based and commercial for stressed patients - burns, surgery, cancer, debilitated patients. Management of patients with feeding problems. Tube feeds - all forms, elemental and parenteral.
- 2. Planning and preparation of diets. Without Insulin, with insulin, adult and juvenile, diabetes in pregnancy, diabetes and illness.
- 3. Diseases of Cardiovascular system-
- Formulation of low cholesterol and low sodium recipes, planning and preparation of diets for hypertension, CHD, congestive heart failure during acute, chronic and convalescent conditions.
- Protein and mineral modification for patients with renal disease
- Planning and preparation of diet for glomerulonephritis acute and chronic, nephritic syndrome, 5.
- Elimination diets for allergy. 7.
- Low purine diet. 8.
- Overweight and obesity, underweight, fevers, ulcers, diarrhoes,

Paper - III

ADVANCED HUMAN DEVELOPMENT

(Credit 3)

Family and Child Welfare: Family in India (concept, family composition & structure, changing pattern of Family and Child to the family disharmony, Implications of family changes). Marital discord, Children's family, causes & effects of family disharmony. Profile of child in India Demographic Profile of child in India Demogra family, causes & Clieb of Children, Demographic Profile of Child in India. Family & child welfare services right & National Policy for children, Demographic Profile of Child in India. Family & child welfare services right & National & International level (CSWB, ICCW, ICDS, NIPCCD, WHO, UNICEF, CARE). Concept, working at National & International level (CSWB, ICCW, ICDS, NIPCCD, WHO, UNICEF, CARE). working at Mattonial & International Concept, which working at Mattonial & International Concept, which working at Mattonial Concept, which working the Concept Concept, which working the Concept Concept Concept, which working the Concept meaning and coping strategy. Physiological, social, psychological, financial readiness for marriage, Preparation Marriage & Family dynamics, Physiological, social, psychological, financial readiness for marriage, Preparation Marriage & ranning dynamics for marriage, Preparital counseling. Technological advancement and family for Marriage: Selecting a suitable partner. Premarital counseling.

Legal Aspects: Laws regarding marriage (Hindu Marriage Act, Muslim Marriage Act, Christian Marriage Act, Legal Aspects: Laws regarding inarriage (Hindu Marriage Act, Muslim Marriage Act, Christian M Legal Aspects: Laws regarding, Adoption, Inheritance Dowry) Contemporary issues in family life, dual career Special Marriage Act), Divorce, Adoption, Inheritance Dowry) Contemporary issues in family life, dual career Special Marriage Act, Christian Marriage Act, Christi Special Marriage Act), Divoles, influence of extra familial factors-films, TV, peer group, neighbourhood & families, non-traditional families. school on development of children.

Family life education; Meaning, Need, Importance & objectives of Family life education, determination techniques, fertilization techniques (Amnio centesis, sonography, Gilt, IVI & A.I. Pregnancy management). Need & concept of family planning, controceptive technology, Planned parenthood-sp between children, size of family.

Parent Education: Meaning, Need, Importance & objectives of parent education

Child with Special Needs: Definitions, Terminology, History of studying disability in India & Abroad. in Classification & labelling, Mainstreaming, Education and Rehabilitation facilities, Government & government efforts (Schemes for Physically & Mentally Challenged people). Different Type of disabilities definition, classification, statistics, genetic & environmental, causes, prevention, Rehabilitation fac Mental Retardation, Sensory Deficits (Auditory Impairment, Visual Impairment), Learning diffict disability, Cerebral Palsy & orthopaedic disability, Communication disorders, Behavioural disorders

Family Support Services: Meaning, Nature & Scope of Family Support Services, Support Services for cl (crèches, day care centers, kishore sadan, observation home & Juvenile Jails). Support Services for W Mahila Ashram, Nari Niketan, Govt, Praveshalaya & Shriahalya, Vidhwa Ashrams, Women Study C Support Services for elderly; Old age homes, day care for aged, Support Services for family; Family family guidance centers.

PRACTICAL

ADVANCED HUMAN DEVELOPMENT HSB608:

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Visit to various institutions related to special need children.

- val folky;
- Deaf and Dumb school
- Deva Centre

Study of marital adjustment in couples of different time span of marriage

- After 5 year of marriage
- After 20 year of marriage
- After 35 year of marriage

Study of family relationship in different types of families

- Nuclear family
- Joint family
- Extended family
- Working and non-working women
- Single parent family

Suggested readings:

- 1. Gangrae K.D. (1971), Community Organization in India, Popular Prakashan, New Delhi
- 2. State of World Children, UNICEF, Annual Publication
- 3. Parakesh B.S. (1985), Population Education Inception to Institutionalization, NCERT, New De
- 4. Bernard H.W. & Fullner D.W., Principles of Guidance, Bombay, Allied Publishers
- Verma Hildebrand (1985) Guiding Young Children, New York, MacMillan Publishing Company
- Hallan D.P. & Kauffman T.M. (1991), Introduction to Exceptional Children (5th Ed.), Boston, A 5. Bacon

Paper - IV

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CONSUMER AND BUSINESS LEGISLATION

Consumer Protection: Consumer rights, problems of Indian consumers, Legislations protecting into consumers, measures to promote consumerism, Consumer Protection Act, 1986 - rights of con

Essential Commodities Act, 1955: Introduction, essential commodities, Powers of Central Gove Seizure and Confiscation, Sale of seized commodities, Paenalty provisions in case of contravention.

untract Act, 1872: Definition, Essentials of a valid contract, kinds of contract, Offer and acceptance, spal posideration-concept to consideration, Capacities of parties and contract by a minor

Isple of Goods Act. 1930: Sales and agreement to sale, Essentials of contract of sale, Subject matters, Conditions and warranties, implies conditions, Shipping documents, Rights of Unpaid seller.

ocal Government: Characteristics, importance and advantages; Problems before local government. Powers, uthority and responsibilities of Panchayats, Election to Panchayats; Constitution of Municipalities, Powers, icili uthorities and responsibility of Municipalities. ulty

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- Meena, Malik and Junja: Business Environment, Kalyani Publishers uggested readings:
 - Sharama, Sadana: Public Administration, Kitab Mahal
 - Upadhyay, Sharma & Dayal: Business Environment, Ramesh Book Depo
 - Tulsian, P.C.: Business Law, Tata McGraw Hill
 - Bose Chandra, D: Business Law, PHI Learning Pvt Ltd
 - Kapoor,, N.D.: Elements of Mercantile Law, Sultan Chand & Sons

Paper - V

(Credit 4)

Elementary Statistics: Nature of investigation, scope, objectives. Sources of data, study tools and Techniques of STATISTICS AND RESEARCH METHODS (Elective) Research, Frequency distributions, Mean, mode, Median, Probability, Standard deviation, Graphs., Research and

Documentation, Different types of research and their application, types all data (Primary and Secondary), methods of data collection, classification and organization of data, editing and coding the data, representation of data diagrammatic and graphic presentation, techniques of construction of diagrams and graphs. Techniques of Research Writing

Seminar- 25 marks

Suggested readings:

- Bhandarkar, P.L. and Willanson T.S. 2000 Methodology and Techniques of Social Research, Himalaya
- Bhatnagar, G.L. (1990): Research Methods and Measurements in Behavioural and Social Sciences.
- Stranss, A. and Corbin, H. (1990): Basis of Qualitative Research: Grounded Theory Procedures and Agri. Cole Publishing Academy, New Delhi. Techniques, Saga Publications, California.
- चित्र एंव मनोविज्ञान में साख्यिकी रू गेरेट हेनरीई 4.