

Human development

- 1-Introduction to Human Development
- a- Definition, concept, principles of Human Development
- c- Historical perspective of Human Development.
 - The Western perspective
 - The Ancient Indian perspective
 - The Scientific study of Children in india
- e-Need and Seope of the field of Human Development
 - Opportunities for Roles and Employment
 - Settings Available
- 2- Growth and Development
 - Definitions of Growth and Development
 - General Principles of development
 - Constraints and facilitators in growth and development (influences of heredity and environment)
 - Genetic inheritance-Fertilization, Number of Chromosomes, Determination of Sex, Genotype and phenotype, Sex linked genetic effects.
 - Environment
 - Interaction between environment and inheritance
- 3- Prenatal development and Birth process
- 4- Development stages and tasks across the Life Span
- 5- Physical and motor Development-Across Life Span.

Physical Development, motor development, cognitive development, language development, social development, emotional development, personality development, moral development.

- 6-Early Childhood Care and Education: Concepts, objectives, need, scope and significance
- 7-Types of Pre-school, ECCE in the National policy on Education
- 8-Contribution of the thinkers in ECCE, ECCE in India
- 9-Contribution of the mentioned agencies/Programmes to ECCE in India: ICCW, IAPE, NCERT, ICDS, UNICEF, NCTE, Mobile Creche etc.
- 10- Methods and Approaches to the study of Human Development, their strength and limitations.

11-Theories of Human development and behavior Psychological Theory-Sigmund Freud, Erik Erikson Social Learning Theory-Albert Bandura Lea rning Theories-Pavlov and Skinner Cognitive Development Theory- Jean Poaget socio- Cultural Theory of Cognitive Development-Vygotsky Kohlberg's Moral Jjudgement theory Ecological Theory- Vrie Brontenbrenner.

12-Principles and objectives of family guidance and counseling.

13- Children with Special Needs: Definition, types, factors. Need for intervention. rehabilitation, Services for special children.

14- Programmes for children and Families: specific programmes for children related to health, nutrition, education and their management. National family welfare policies and their management.

Foods& Nutrition

1-Nutrition and health- definition and inter - relationship

- o Food-Definition, physical and chemical composition of food, functions of food
- o Classification of food according to source and function
- Effect of cooking, processing, preservation and storage of nutrients in:
- o Fruits and vegetables
- o Pulses and legumes
- o Cereals
 - o Milk and Milk product
- o Eggs
- o Meat, fish and poultry
- Sugar and beverages
- 2- Methods of enhancing nutritive value of food- germination, fermentation, supplementation and fortification
- 3-Food additives and its uses in food preparations
- 4-Sensory evaluation: Definition and types
- 5-Food Adulteration: definition, common adulterants, methods of detections.
- 6-Legislation, Quality control and Assurance: Food lawas and Act, FSSA2006
- 7-Food Analysis: Sampling for products, proximate principles, nutrient analysis
- a-General analytical techniques (Colorimeter, spectrophotometer, ELISA etc.)

8-Microbiology of Food and Diseases: Introduction, Sources of food contamination and spoilage, Food Toxins, Food Safety and sanitation, HACCP, microbes in diseases.

9- 12- Nutritional and biochemical aspect of Protein, Carbohydrate

and dietary fibre,

o Lipids, Vitamins, Minerals. Function, degestion, absorption and sources of nutrients

o Energy metabolism: Energy value of food BMR,

Factors affecting energy requirement.

 Minmum nutritional requirement and RDA, formulation of RDA and Dietary guidelines- reference man and reference women.

o d- Metablolism: Carbohydrate, protein and fat metabolism, role of enzyme in metabolism.

10-Normal and Therapeutic Nutrition: Concept of balanced diet,

Meal planning

11-Factors to be considered when planning meals for a family. Requirement and diet plans for different stages of life: Infancy, Childhood, Adolescence, Adulthood- including pregnancy and lactation, old age.

12- Dietary modification- soft diet, liquid diet, Total parenteral nutrition, other therapeutic diets. Nutrition in common diseases:

- Fever, typhoid and TB
- Diarrhea and constipation
- Infective hepatitis, cirrhosis
- Obesity
- Diabetes
- Hypertension, Coronary heart diseases
- Renal disease: Nephoitic syndromes, glomerulonephritis, acute and Chronic renal failure,
- Rheumatic arthritis, osteoporosis, gout
- Cancer

13- Community Nutrition: Concept, Nutritional epidemiology, assessment of nutritional status, nutritional problems of community: PEM, Vitamin. A deficiency, anaemia, iodine deficiency, Community nutrition services, National nutrition policy.

Family Resouvce Management

1- Introduction to management: Basic concept of management, Purpose of management, Obstacles to the improvement of management

2- Factors motivating management: Values, Goal, Standards,

resource.

3- Management Process: Decision- role of decision making in management. Meaning and elements of process- planning, controlling the plan and evaluating, decision making.

Planning-importance, techniques, types of plan

Controlling the plan in action

Evaluation: Importance, relationship to goals, Techniques of self evaluation. Time and energy management: organization and work in relation to time and efficiency

4- Work simplification: Methods, study of organization of work centres in the kitchen, work spaces, storage and equipments

5-Ergonomics: Definition, Scope, nature of work in house hold and other occupations, physiology of neuromuscular functions in relation to occupational ergonomics, job analysis for occupational ergonomics, anthropometry in relation to occupational ergonomics.

6-Family finance: family income, expenditure, economic problems,

family budget and saving and investments.

7-Consumer Economics: concepts, theory of consumer behavior, market and market price, consumer credits and consumer protection.

8- Entrepreneurship Management: concept, need and process. Types of enterprise, Role of enterprise in national and global economics.

9-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
- Planning different rooms
- Landscape planning- principles and applications

10-Financial considerations- availability of funds for housing

11- Interior designing and furnishing elements and principles of art and design and their application

12- Furniture: Arrangement of furniture for living, sleeping, dining

and multipurpose room

13- Furnishing fabrics: Types of curtains, draperies, floor coverings, rugs and carpets, cushion covers, bed linen and table linen

14- Accessories and their role in interiors

Textile & Clothing

- 1- Introduction and classification of textiles
- 2-Manufacture and physical, chemical properties and uses of following fabric-
 - Natural cotton, linen, wool and silk
 - Man made- rayon, polyester and acrylic
- 3- Classification of Yarns, simple, novelty metallic and texturised yarns
- 4- Fabric construction methods- Fetting, braiding, bonding, netting, knitting and weaving
- 5- Fabric finishes:
 - Basic -Singeing, beatling, shearing, sizing, tentering, bleaching, calendaring and mercerizing
 - Texturizing- embossing, moiring and napping
 - Functional- water resistant and repellant, flame retardant, soil and stain resistant, moth proofing finishes
 - Dyeing and printing: Types of dyes, general theory of dyeing, tie and dye and batik
 - Difference between dyeing and printing, block printing, roller printing, screen printing and stencil printing
- 6- Textile Testing and Quality control: standardizing and testing conditions, Study of Pibre, yarn and fabric properties, fabric colour, fastness testing
- 7-Textile and Apparel designing: anthropometrical measurements, pattern making, lay out planning, different types of stitches, seams, dart manipulations, patter alterations. alteration for fitting. Basic body blocks.
- 8- Fashion designing: Principles of elements and arts in dress designing. Use of software's in designing. Fashion trends in India and abroad.
- 9- Trditional textiles and embroideries of India

Extension and Communication

1-Extension: Meaning, changing concepts of extension, philosophy, principles, functions, components of extension.

2-Extension Teaching: Methods and process, steps in extension teaching methods: Teaching Aids: types, characteristics and functions: Role of Media in the process of Learning Extension techniques and methods- personal contacts, demonstration, literature group discussion. Audio Visual Aids in Extension. Ciassification and importance Selection, preparation and effective use of A.V. Aids in extension work

3-Extension systems: Outline of National Extension Systems in India: Community Development Programme: KVK, Role of State Goverments in Extension Programmes related to Community Health and other policies, Central Social Welfare Board, Panchayati Raj System.

4- Community: Definition, concept and characteristics of a community, Structure and organization of different types of communities: tribal, rural and urban, social groups and Organizations

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

6- Programme planning

- Programme cycle and its components
- Preparatory work with local people- involve people, collect basic data, need assessment, community based support
- Designing the project- defining objectives, identifying resources, methods/approach, feasibility and work plan
- Implementing
- Monitoring and evaluation
- Documentation-Need for reporting and recording
- 7- Communication Systems: Concept, types, Function and significance. Elements, characteristics of mass communications. Media systems, trends and techniques. Contemporary issues in media. Human rights and media, women and media Advertisements.
- 9- Gender and Development

 Capacity building for women: education, decision making abilities and opportunities, awareness and information on legal and political issues

 Women's organizations and collective strength: Women's action groups, women's participation in development initiatiove, self help group, women in agriculture, women in industry and support services.

National and International efforts for gender empowerment;

Policies and programmes for women development

10- Research Methodology:

- Sampling, Tools and Techniques of Data Collection, Interview, Questionnaire, Observation, Case Study and Projective techniques.
- Research Management Techniques:
- PERT, CPM, SWOT analysis
- Types of variables:

Theory of probability:

Conceptual understanding of statistical measures.
Classification and tabulation of data. Measurement of central tendency, measures of variation.

 Frequency distribution, histogram, Frequency, polygons, Oliver;

Normal distribution- Use of normal probability tables

Parametric and non-parametric tests.

- Testing of hypothesis. Levels of significance
- Chi-square test. Application't' test for small samples.
- Co-relation, coefficient of co-relation, rank co- relation

Regression and prediction

Analysis of variance- one way and two- way classification.