

M.A./M.Sc. FOOD AND NUTRITION 2022-23

Years	Paper Code	No.	Paper Title	T+P	Credit
2022 I st Semester	A130701T	I	Research Methods	T	4
	A130702T	II	Statistics and Computer Application	T	4
	A130703T	III	Applied Physiology	T	4
	AI30704 T	IV	Advanced Nutritional Biochemistry	T	4
	A130705P	V	Practical based on 1,2,3,4	P	4
II Semester	AI30801T	I	Methods of Investigation	T	4
	A130802T	II	Problems in Human Nutrition	T	4
	A130803T	III	Public Nutrition	T	4
	A130804T	IV	Institutional food administration	T	4
	A130805P	V	Practical based on 1,2,3,4	P	4
	A130806R	VI	Pilot survey and synopsis presentation	R	8
2023 III Semester	A130901T	I	Advance in food Microbiology	T	4
	A130902T	II	Research Methods in food and Nutrition	T	4
	A130903T	III	Advance Nutrition	T	4
	A130904T	IV	Food Science	T	4
	A130905P	V	Practical based on I,II,III,IV	P	4
2023 IV Semester	A131001T	I	Assessment of Nutritional Status	T	4
	A131002T	II	Maternal and Child Nutrition	T	4
	A131003T	III	Scientific writing	T	4
	A131004T	IV	Nutrition in Emergencies and disaster	T	4
	A131005P	V	Practical based on I,II,III	P	4
	A131006R	VI	Dissertation	R	8

M.A./M.Sc. Human Development 2022-23

Years	Paper Code	No.	Paper Title	T+P	Credit
2022 I st Semester	A130701T	I	Research Methods	T	4
	A130702T	II	Statistics and Computer Application	T	4
	A130703T	III	History and Theories of Human Development	T	4
	AI30704 T	IV	Methods of Studying human	T	4
	A130705P	V	Practical based on 1,2,3,4	P	4
II Semester	AI30801T	I	Advanced study in Human Development	T	4
	A130802T	II	Management of Programme for Children and Families	T	4
	A130803T	III	Adolescence and Youth	T	4
	A130804T	IV	Principles of Guidance and Counselling	T	4
	A130805P	V	Practical based on 1,2,3,4	P	4
	A130806R	VI	Pilot survey and synopsis presentation	R	8
III Semester	AI30901T	I	Advanced study in Human Development II	T	4
	A130902T	II	Early childhood care Education	T	4
	A130903T	III	Culture and Physiology	T	4
	A130804T	IV	Study of family in Society	T	4
	A130805P	V	Practical based on I,II,III,IV	P	4
IV Semester	AI31001T	I	Persons with Disabilities	T	4
	AI31002T	II	Scientific Writing	T	4
	AI31003T	III	Development of creativity	T	4
	AI31004T	IV	Care of Elderly	T	4
	A131005P	V	Practical based on I,II,III,IV	P	4
	A131006R	VI	Dissertation	R	8

M.A./M.Sc. I Semester I Paper I

Research Methods (Theory)

Programme/Class: Certificate	Year : 1	Semester : I
Subject : Home Science		
Paper Code : A130701T	Course Title : Research Methods	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture - 40		

Objectives:

- To understand the significance of statistics and research methodology in Home science research.
- To understand the types, tools and methods of research and develop the ability to construct data gathering instruments appropriate to the research design.
- To understand and apply the appropriate statistical technique for the measurement scale and design.

Contents:

Unit I

No.of Lecture-10

- Science, scientific methods, scientific approach.
- **Role of statistics and research in Home Science discipline.**
- **Types of Research:** Historical, descriptive, experimental, case study, social Research, participatory Research.

- **Definition and Identification of a Research Problem**

- Selection of research problem
- Justification
- Theory, hypothesis, basic assumptions, limitations and delimitations of the problem.

Unit II

No. of Lecture-10

- **Types of variables**

- **Theory of probability**

- Population and sample
- Probability sampling: simple random, systematic random sampling, two stages and multi stage, cluster sampling.
- Non-Probability sampling: purposive, quota and volunteer sampling/snowball sampling.

Unit I

No.of Lecture-10

- **Basic principles of Research Design**

- Purposes of research design: Fundamental, applied and action, exploratory and descriptive, experimental, survey and case study, ex-post facto, longitudinal and cross sectional, co-relational

- **Qualitative Research Methods:**

- Theory and design in qualitative research
- Definition and types of qualitative research
- Methods and techniques of data collection
 - Group Discussion
 - Interview : Key informants, in-depth interviews

- Observations
- Social mapping
- Participatory rapid assessment
- Participatory learning assessment

Unit IV

No. of Lecture-5

- **Data Gathering Instruments:**
 - Observation, questionnaire, Interview, scaling methods, case study, home visits, reliability and validity of measuring instruments.
- **Scales of Measurement and the appropriate statistical techniques.**

Unit V

No.of Lecture-5

- **Critical analysis of research.**
- **Writing a research proposal.**
- **Analysis of data and research report.**

References

1. Bandarkar, P.L. and Wikinson T.S. (2000): Methodology and Techniques of Social Research, Himalaya Publishing House, Mumbai.
2. Bhatnagar, G.L. (1990) ; Research Methods and Measurements in Behavioural and Social Sciences, Agri, cole publishing Academy, New Delhi.

M.A./M.Sc. I Semester I Paper II

STATISTICS & COMPUTER APPLICATIONS (Theory)

Programme/Class: Certificate	Year : 1	Semester : I
Subject : Home Science		
Paper Code : A130702T	Course Title : STATISTICS & COMPUTER APPLICATIONS	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 30		

Objectives

- To understand the role of statistics and computer applications in research
- To apply statistical techniques to research data for analysing and interpreting data meaningfully.

Note : Students should be given hands-on experience to use appropriate software packages for selected statistical analysis.

Contents

Unit I

No. of Lecture-10

- **Conceptual understanding of statistical measures.** Classification and tabulation of data. **Measurement of central tendency, measures of variation**
- **Frequency distribution, histogram, frequency, polygons, Ogive.**
- **Binomial distribution**
- **Normal distribution – Use of normal probability tables**

Unit IV

No. of Lecture-8

- **Parametric and non-parametric tests.**
- **Testing of hypothesis.** Type I and Type II errors. Levels of significance
- **Chi-square test.** Goodness of fit. Independence of attributes 2x2 and rxc contingency tables.

Unit III

No. of Lecture-5

- **Application of student ‘t’ test for small samples.** Difference in proportion for means and difference in means.
- **Correlation, coefficient of correlation, rank correlation**

Unit IV

No. of Lecture-7

- **Regression and prediction**
- **Analysis of variance – One way and two-way classification.**
- **Experimental Designs**
 - completely randomized design
 - randomized block design
 - Latin square design

M.A./M.Sc. I Semester I Paper III

APPLIED PHYSIOLOGY (Theory)

Programme/Class: Certificate	Year : 1	Semester : I
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Subject : Home Science	
Paper Code : A130703T	Course Title : APPLIED PHYSIOLOGY
Credit : 4	Core Compulsory/Elective
Max Marks : 75+25	Min. Passing Marks
Total No. of Lecture – 50	

Objectives

This course will enable students to:

- Advance their understanding of some of the relevant issues and topics of human physiology.
- Enable the students to understand the integrated function of all systems and the grounding of nutritional science in Physiology.
- Understand alterations of structure and function in various organs and systems in disease conditions.

Contents

Unit I

No. of Lecture-10

- **Cell structure and function**

Levels of cellular organisation and function- organelles, tissue, organs and systems- Brief review. Cell Membrane and intercellular communication, Regulation of cell multiplication

- **Nervous System**

- Review of structure and function of neuron, conduction of nerve impulse, synapses, role of neurotransmitters.
- Organisation of central nervous system, structure and function of Brain and spinal cord, Afferent and efferent nerves, Blood Brain

Barrier, CSF, Hypothalamus and its role in various body functions-
Obesity, sleep, memory.

Unit II

No. of Lecture-10

- **Endocrine System**

- Endocrine glands – structure, function, role of hormones, regulation of hormonal secretion. The neuroendocrine axis. Disorders of endocrine glands. Emphasis on physiology of diabetes and stress hormones.

- **Sense organs**

- Review of structure and function. Role of skin, eye, ear, nose and tongue in perception of stimuli.

- **Digestive system**

- Review of structure and function, Secretory, Digestive and Absorptive functions, Role of liver, pancreas and gall bladder and their dysfunction, Motility and hormones of GIT.

Unit III

No. of Lecture-10

- **Respiratory System**

- Review of structure and function. Role of lungs in the exchange of gases. Transport of oxygen and CO₂. Role of haemoglobin and buffer systems. Cardio-respiratory response to exercise and physiological effects of training.

- **The Circulatory System**

- Structure and function of heart and blood vessels. Regulation of cardiac output and blood pressure, heart failure, hypertension.

Unit IV

No. of Lecture-10

- **Blood formation, composition, blood clotting and haemostasis:**

Formation and function of plasma proteins, Erythropoiesis, Blood Groups

and histocompatibility. Blood Indices. Use of blood for investigation and diagnosis of specific disorders. Anemia

- **The excretory system**

- Structure and function of nephron, Urine formation, Role of kidney in maintaing pH of blood.
- Water, electrolyte and acid base balance, diuretics

Unit V

No. of Lecture-10

- **The Musculo- skeletal system**

- Structure and function of bone, cartilage and connective tissue. Disorders of the skeletal system.
- Types of muscles, structure and function.

- **Immune System**

- Cell mediated and humoral immunity. Activation of WBC and production of antibodies. Role in inflammation and defence.

- **Reproduction**

Menstrual cycle, spermatogenesis, physiological changes in pregnancy.

M.A./M.Sc. I Semester I Paper IV

ADVANCED NUTRITIONAL BIOCHEMISTRY (Theory)

Programme/Class: Certificate	Year : 1	Semester : I
Subject : Home Science		
Paper Code : A130704T	Course Title : ADVANCED NUTRITIONAL BIOCHEMISTRY	

Credit : 4	Core Compulsory/Elective
Max Marks : 75+25	Min. Passing Marks
Total No. of Lecture – 40	

Objectives

This Course will enable the students to:

- Augment the biochemistry knowledge acquired at the undergraduate level
- Understand the mechanisms adopted by the human body for regulation of metabolic pathways.
- Get an insight into interrelationships between various metabolic pathways
- Become proficient for specialization in nutrition.
- Understand integration of cellular level metabolic events to nutritional disorders and imbalances.

Contents

Unit I

No. of Lecture-8

- **Heteropolysaccharides** : Definition, classification, structure and properties of glycoproteins and proteoglycans.
- **Plasma Proteins** – Nature, properties and functions

Unit II

No. of Lecture-8

- **Overview of regulations of intermediary metabolism:** Equilibrium and non-equilibrium reactions, committed steps, allosteric modifications, covalent modulation, hormonal induction and repression, cross-over theorem, starve-feed cycle, caloric homeostasis and futile cycles.

- **Intermediary metabolism:** Reactions, standard free energy changes and regulation.
 - Carbohydrates- glycolysis, gluconeogenesis, citric acid cycle, hexose monophosphate pathway.
 - Lipids, beta-oxidation, de novo synthesis of fatty acids, synthesis and breakdown of unsaturated fatty acids, cholesterol, phospholipids and triacylglycerol.

Unit IV

No. of Lecture-8

- **Purines and pyrimidines** – Synthesis and breakdown.
- **Nucleic acids** – DNA replication and transcription, DNA repair systems, DNA recombinant Genetic mutation, regulation of gene expression and protein biosynthesis
- **Hormones** – Mechanism of action of hormones.

Unit V

No. of Lecture-8

- **Minerals** – Biological role of trace elements.
- **Detoxification in the body-** Metabolism of foreign compounds.
- **Major alterations in carbohydrates, protein and fat metabolism in chronic nutrition-related degenerative diseases.**

M.A./M.Sc. I Semester I Paper V

ADVANCE NUTRITIONAL BIOCHEMISTRY AND INSTITUTIONAL FOOD ADMINISTRATION (Practical)

Programme/Class: Certificate	Year : 1	Semester : I
Subject : Home Science		
Paper Code : A130705P	Course Title : ADVANCE NUTRITIONAL BIOCHEMISTRY AND INSTITUTIONAL FOOD ADMINISTRATION	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 40		

Practical

Objectives

This course will enable the students to :

- Understand the principles of biochemical methods used for analysis of food and biological samples.
 - Perform biochemical analysis with accuracy and reproducibility.
1. **Calcium** : Estimation of calcium in foods and serum.
 2. **Phosphorous** : Estimation of inorganic phosphorous in foods and serum.
 3. **Ascorbic acid** : Estimation of ascorbic acid in foods.
 4. **Proteins** : a. Estimation of protein in food stuffs.

b. Estimation of albumin, globulin and album/globulin ratio in serum and urine.

c. Estimation of hemoglobin

5. Glucose : Estimation of glucose in blood urine.

6. Cholesterol : Estimation of cholesterol in blood.

7. Enzyme assay : Estimation of activity of serum alkaline phosphatase and Transaminase

8. Urea and Creatinine : Estimation of urea and creatinine in serum and urine.

9. Survey of pathological laboratories : To obtain information about the methods used for blood/serum analysis.

10. Market survey and analysis of processed and finished products.

11. Evaluation of Food Service units-2 Conventional, commissary.

12. Market survey of Food service equipment.

13.Layout analysis of Kitchens-2

14.Planning menus for quantity.

- Banquet
- Outdoor catering
- Packed meals
- Restaurant

15.Standardizing recipes for quantity 100, 250,500

16.Cost Analysis of menus in

- College canteen
- Hostel mess

- Hospitals (private, charitable, government)

17. Analysis of Food safety and Hygiene

वीर बहादुर सिंह पूर्वांचल विश्वविद्यालय, जौनपुर
(उत्तर प्रदेश राज्य विश्वविद्यालय)

नई अवस्था में निम्नानुसार सिर्फ विषयों को संकायों में वर्गीकृत किया गया है। अन्य प्रशासनिक एवं पाठ्यक्रम निर्धारण और अन्य व्यवस्था पूर्ववत् रहेगी।

A. Faculty of Language (भाषा संकाय)

1.Arabic (अरबी)	10.Modern Indian Languages and Literary Studies (आधुनिक भारतीय भाषा एवं साहित्यिक अध्ययन)
2.Communicative English (संचार अंग्रेजी)	11.Pali (पाली)
3.English (अंग्रेजी)	12.Prakrit (प्राकृत)
4.Farsi (फारसी)	13.Punjabi (पंजाबी)
5.Foreign Language (विदेशी भाषा)	14.Sanskrit (संस्कृत)
6.French (फ्रेंच)	15.Sindhi (सिंधी)
7.German (जर्मनी)	16.Tibbati (तिब्बती)
8.Hindi (हिन्दी)	17.Urdu (उर्दू)
9.Linguistics (भाषा विज्ञान)	

B. Faculty of Arts, Humanities and Social sciences (कला, मानविकी एवं सामाजिक विज्ञान संकाय)

1.Adult and Continuing Education (प्रौण, सतत् एवं प्रसार शिक्षा)।	15.Human Rights (मानवाधिकार)
2.Ancient History, Archaeology & Culture (प्राचीन इतिहास पुरातत्व एवं संस्कृति)	16. Indian history and culture (भारतीय इतिहास एवं संस्कृति)
3.Anthropology (मानवशास्त्र)	17.Journalism (पत्रकारिता)
4.Archaeology and Musicology (पुरातत्व एवं संग्रहालय)	18. Journalism and Communication (पत्रकारिकता एवं जनसंचार)
5.Astrology (ज्योतिष विज्ञान)	19.Library & Information Science (पुस्तकालय एवं सूचना विज्ञान)
6.Defense and Strategic Studies (रक्षा एवं सामरिक रणनीतिक अध्ययन)।	20.Mass Media (संचार मीडिया)
7.Early Childhood care and Education (बाल्यकाल की आरम्भिक देखभाल एवं शिक्षा)	21.Media and Communication (मीडिया एवं संचार)
8.Economics (अर्थशास्त्र)	22.Nutrition and Dietetics (पोषण एवं

	आहार)
9.Education (शिक्षा शास्त्र)	23.Philosophy (दर्शनशास्त्र)
10.Geography (भूगोल)	24.Physical Education (शारीरिक शिक्षा)
11.History (इतिहास) – Medieval and Modern History (मध्यकालीन और आधुनिक इतिहास)	25.Political Science (राजनीति विज्ञान)
12. Home Science (गृह विज्ञान)	26.Psychology (मनोविज्ञान)
13. Human Development (मानव विकास)	27.Public Administration (लोक प्रशासन)
14. Human Resources Development (मानव संसाधन विकास)	28.Social Workers (सामाजिक कार्य)
	29. Sociology (समाजशास्त्र)
	30. Women Studies (महिला अध्ययन)
	31.Yoga (योग शिक्षा)

M.A./M.Sc. I Semester II Paper I

METHODS OF INVESTIGATION (Theory)

Programme/Class: Certificate	Year : 1	Semester : I
Subject : Home Science		
Paper Code : A130801T	Course Title : METHODS OF INVESTIGATION	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 40		

Objectives

This course will enable the students to :

- To understand the principles of various analytical techniques available for nutrition research.
- To familiarize with the applications of the above techniques.

Contents

Unit I

No. of Lecture-8

- **Electrolytic dissociation** – Acids, bases, salts, buffers, Hendersen-Hasselbach equation.

Theory of indicators and principles of measurement of pH.

Unit II

No. of Lecture-8

- Basics of Instrumentation– Physico-chemical principles and methodology- Colorimetry, photometry, fluorimetry, flame photometry and atomic absorptiometry.

Unit III

No. of Lecture-8

- Chromatography– principles and application in paper (circular, ascending and descending), ion-exchange, column, thin layer, gas liquid and high performance liquid chromatographic techniques.

Unit IV

No. of Lecture-8

- **Electrophoresis** – Principle and applications in paper and gel electrophoresis.
- **Bioassays** – Animal studies, Human studies, Microbiological assays.

Unit V

No. of Lecture-8

- **Use of Isotopes** – Radioactive and stable isotopes.
- **NMR and its applications.**
- **Immunological Methods** – RIA, ELISA

References :

1. Boyer, R. (2000). 3rdEd. Modern Experimental Biochemistry, Person Education, Asia.
2. Dawes, E.A., (1980) 6th Ed. Quantitative Problems in Biochemistry, Longman Group Ltd.
3. Khosla, B.D., Garg, V.C. and Khosla, A. (1987). 5th Ed. Senior Practical Physical Chemistry. R.Chand & Co. New Delhi.

4. Oser, B.L. (1965). 14th ed. Hawk's Physiological Chemistry. Tata McGraw Hill Publishing Co. Ltd.
5. Raghuramulu N.; Madhavan Nair and K. Kalyanasundaram, S. (1983). A Manual of Laboratory Technique. NIN, ICMR.
6. Sharma, B.K. (1999). 8th ed. Instrumental Methods of Chemical Analysis, Get Publishing House.
7. Srivastava, A.K. and Jain, P.C. (1986), 2nd Ed. "Chemical Analysis : An Instrumental Approach, S.Chand and Company Ltd.

M.A./M.Sc. I Semester II Paper II

PROBLEMS IN HUMAN NUTRITION (Theory)

Programme/Class: Certificate	Year : 1	Semester : I
Subject : Home Science		
Paper Code : A130802T	Course Title : PROBLEMS IN HUMAN NUTRITION	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 25		

Objectives

The course is aimed at providing an understanding of :

- Nutritional problems/nutrition-related diseases prevalent among the affluent and the less privileged groups, with reference to their incidence, etiology and public health significance.
- Biochemical and clinical manifestations, preventative and therapeutic measures of the same.

Contents

Unit I

No. of Lecture-15

- **Historical background, prevalence, etiology, biochemical and clinical manifestations, preventive and therapeutic measures for the following:**
 - PEM
 - Vitamin A deficiency

- Nutritional anemias
- IDD
- Rickets, osteomalacia and osteoporosis
- Fluorosis

Unit II

No. of Lecture-10

- Historical background, prevalence, etiology, biochemical and clinical manifestations, preventive and therapeutic measures for
 - Obesity and overweight
 - Diabetes melitus
 - CHD
 - Cancer

References

1. McCollum, E.V. (1957): History of Nutrition, Houghton Mifflin Co.
2. Waterlow, J.C. (1992) : Protein energy malnutrition, Edward Arnold, A Division of Hodder & Stoughton.

M.A./M.Sc. I Semester II Paper III

PUBLIC NUTRITION (Theory)

Programme/Class: Certificate	Year : 1	Semester : I
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Subject : Home Science	
Paper Code : A130803T	Course Title : PUBLIC NUTRITION
Credit : 4	Core Compulsory/Elective
Max Marks : 75+25	Min. Passing Marks
Total No. of Lecture – 50	

Objectives :

This course will enable the students to:

- Develop a holistic knowledge base and understanding of the nature of important nutrition problems and their prevention and control for the disadvantaged and upper socio-economic strata in society.
- Understand the causes/determinants and consequences of nutrition problems in society
- Be familiar with various approaches to nutrition and health interventions, programmes and policies.

Contents

Theory

Unit I

No. of Lecture-10

- **Concept of Public nutrition** – relationship between health and nutrition, role of public nutritionists in the health care delivery.
- **Sectors and Public Policies relevant to Nutrition**
- **Primary Health Care of the Community**
 - National Health Care Delivery System
 - Determinants of Health Status
 - Indicators of Health.

Unit II

No. of Lecture-10

- **Population Dynamics**

- Demographic transition, population structure, fertility behaviour, population policy, fertility, nutrition and quality of life inter-relationship.

- **Food and Nutrition Security**

- Food production, Access, Distribution Availability, Losses, Consumption, Food Security, Socio-cultural aspects and Dietary Patterns: their implications for Nutrition and Health.

Unit III

No. of Lecture-12

- **Nutritional Status**

- Determinants of nutritional status of individual and populations: Nutrition and Non-nutritional indicators: socio-cultural, biologic, environmental and economic.

- **Major Nutritional Problems** – etiology, prevalence, clinical manifestations, preventive and therapeutic measures of:

- Macro and Micro nutrient deficiencies.
- Other nutritional problems like lathyrism, dropsy, aflatoxicosis, alcoholism and fluorosis.
- Overweight, obesity and chronic degenerative diseases

- National Food and Nutrition Policy, Plan of Action and Programmes.

Unit IV

No. of Lecture-10

- **Approaches and Strategic for improving Nutritional status and health:** Programmatic options- their advantages and demerits. Feasibility, political support, available resources (human, financial, infrastructural)

Case studies of selected strategies and programmes: their rationale and context, how to select interventions from a range of possible options:

- Health-based interventions, Food-based interventions including fortification and genetic improvement of foods, supplementary feeding, Nutrition education for behaviour change.

Unit V

No. of Lecture-8

- Policy Analysis and Operational Research
- Programme Design Planning. Implementation, Operations Monitoring, Surveillance and Evaluation.
- Health Economics and Economics of Malnutrition – Its impact on productivity and national development. Cost-Benefit, Cost effectiveness and Cost efficiency

M.A./M.Sc. I Semester II Paper IV

INSTITUTIONAL FOOD ADMINISTRATION (Theory)

Programme/Class: Certificate	Year : 1	Semester : I
Subject : Home Science		
Paper Code : A130804T	Course Title : INSTITUTIONAL FOOD ADMINISTRATION	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 50		

Objectives

- To develop a knowledge base in key areas of institutional Food Administration.
- To provide practical field level experience in Institutional Food Administration.
- To impart necessary expertise to function as a food service manager
- To equip individual to start their own food service unit leading to entrepreneurship
- To develop critical abilities and provide basic grounding in research techniques

Contents

Theory

Unit I

No. of Lecture-10

- **Introduction to Food Service Systems**

- Evolution of the food service industry
- Characteristics of the various types of food service units

- **Approaches to Management**

Theories of management

- Aspects of management
- Styles of management
- Management tools

Unit II

No. of Lecture-10

- **Strategies in Planning**

- Conceptual strategy
- Marketing strategy
- Types of plans

- **Management of Resource**

- Finance
 - Determining the finance needed to establish or run an unit
 - Budgets
 - Sources of finance
 - Planning adequate cash flow

Unit III

No. of Lecture-10

- Space & Equipment
 - Steps in planning layouts
 - Determining equipments
 - Selection and placement
 - Maintenance of equipment
 - Layout analysis
- Material
 - Menu planning
 - Planning the material needed
 - Methods of selection
 - Storage
 - Quantity food production
 - Service and modes of delivery

Unit IV

No. of Lecture-10

- Staff
 - Manpower planning
 - Manpower placement
 - Recruitment, induction, training, motivation and performance appraisal
- Time and Energy
 - Measures of utilisation and conservation
- **Techno-economic feasibility of food production/service enterprise**
- **Cost accounting/analysis**

- Food cost analysis
- Records to be maintained
- Reports and trend analysis

Unit V

No. of Lecture-10

- **Marketing and sales management**
 - Marketing strategies
 - Sales analysis
 - Market promotion
- **Quality assurance**
 - Food quality
 - Total quality management
- **Computer aided record maintenance and management**

References

Management

1. West, B.Bessie & Wood, Levelle (1988) Food Service in Institutions 6th Edition, Revised by Herger FV, Shuggart SG & Palgne-Palacio June Macmillan Publication company New York.
2. Sethi Mohini (1993) Catering Management An integrated Approach 2nd Edition Wiley Publication.
3. Kotas Richard & Jayawardardene, C (1994): Profitable Food and Beverage Management, Hodder & Stoughton Publication.
4. Brodner, J. Maschal, H.T., Carlon, H.M. (1982): Profitable Food and Beverage Operation 4th Edition, Hayden Book company New Jersey.

5. Green, E.F., Drake, G.G., Sweeny, J.F. (1978) Profitable Food and Beverage Management.

Planning

Operations

Hayden Book Company, New Jersey.

6. Knootz, H,O Donnel C (1968) Principles of Management McGraw Hill Book Company

Personnel Management

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M.A./M.Sc. I Semester II Paper V

Methods of Investigation and Public Nutrition (Practical)

Programme/Class: Certificate	Year : 1	Semester : I
Subject : Home Science		
Paper Code : A130805P	Course Title : Methods of Investigation and Public Nutrition	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 30		

Practicals

Objective

This course will enable the students to :

1. Orient themselves regarding the use of various analytical techniques for specific estimations.
2. Comprehend better the principles involved in different methods of investigation.
3. Become efficient in the use of some of the most commonly used techniques and instruments in High quality research.
- 1. Acid and Alkalis:** Preparation of dilute solutions of common acids and alkalis and determining their exact normalities.
- 2. Buffers:** Preparation of phosphate, carbonate-bicarbonate, boric acid, acetate, chloride and pthalate buffers and determination of their pH by the use of indicators and pH meters.
- 3. Spectrometry:** Beer Lambert law, absorption maximum, Preparation of Standard curve and nutrient estimations in UV and visible range, AAS, AES, Flamephotometry.
- 4. Fluorimetry:** Estimation of thiamin and riboflavin.
- 5. Chromatography:** Paper – identification of amino acids by circular, ascending and descending methods, Ion-exchange separation of amino acids, Column – Separation of proteins. Thin layer – Identification of amino acids, Gas-liquid – Estimation of fatty acids. HPLC – Estimation of :-carotene and :- tocopherol.
- 6. Electrophoresis :** Fractionation of plasma proteins.
7. Comparison of rural, urban and tribal communities for : (a) determinants of malnutrition (b) socio-economic groups (c) the types of nutritional

problems in different segments and age groups through analysis of secondary data.

8. Critical appraisal of existing interventions and programmes in the voluntary sector and government and suggestions to improve the same vis-a-vis target groups in society and specific needs.

9. Development of a plan for a nutrition intervention project in the community (The target group(s) need to be specified).

Development of low cost nutritive recipes suitable for various vulnerable groups at micro, meso and macro levels.

10. Field experience in operational public nutrition programmes; nutrition rehabilitation centres, fortification programmes, cost analysis.

M.A./M.Sc. II Semester III Paper I

ADVANCED STUDY IN HUMAN DEVELOPMENT-II (Theory)

Programme/Class: Certificate	Year : 1	Semester : I
Subject : Home Science		
Paper Code : A130901T	Course Title : ADVANCED STUDY IN HUMAN DEVELOPMENT-II	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture - 40		

OBJECTIVES

- To undertake an advanced study of the stages in human development with specific focus on youth, adulthood and old age:
- To understand the principles and factors influencing human development in these stages.

CONTENTS:

Unit I

Total No. of Lecture-5

- **Youth/Young adulthood (20-30 years)**
 - Introduction : Biological, cultural and developmental perspectives on youth and adulthood.
 - Developmental needs importance of social organization. . Culmination of identity formation.
 - Life cycle approach - sexuality, marriage, marital adjustment, parenthood.
 - Census data on adult population in India.

Unit II

Total No. of Lecture-15

- **Middle adulthood (30-35 years)**

- Physical continuity and changes. Adlt intelligence. Personality development - role in family
- Development of the self. Inter - generation relationships, maintaining family relationships.
- Friendships.
- Parenting adult offsprings and their marriage.
- Menopause in women. Health and disease, adult sexuality. Work and career development – gender differences.

Unit III

Total No. of Lecture-10

- **Late adulthood (50-65)**

- Continuity and change in personality - the family life cycle.
- Social relationships.
- Grand parenthood – intergenerational relations.
- Occupational continuity and change - effect in identity. - Retirement from formal work.
- Health and disease.

Unit IV

Total No. of Lecture-10

- **Old age (65+ years)**

- Physical aspects of aging.
- Change in cognitive abilities and creativity.
- Psychosocial development.
- Changes in family life cycle. Health and disease.

- Dean, dying and bereavement.

M.A./M.Sc. II Semester III Paper II

EARLY CHILDHOOD CARE AND EDUCATION (Theory)

Programme/Class: Certificate	Year : 2	Semester : III
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Subject : Home Science	
Paper Code : A130902T	Course Title : EARLY CHILDHOOD CARE AND EDUCATION
Credit : 4	Core Compulsory/Elective
Max Marks : 75+25	Min. Passing Marks
Total No. of Lecture – 40	

OBJECTIVES

- To gain knowledge and insight regarding principles of early childhood care and education.
- To development the skills and techniques to plan activities in early childhood care and education and to work effectively with parents and community

CONTENTS:

- **Principles of Early childhood Care and Education**

Unit I

Total No. of Lecture-8

- Importance need and scope of ECCE.
- Objectives of ECCE
- Types of preschools/programmes; play centres, day care. Montessori. Kindergarten, balwadi, anganwadi etc.
- Concepts of non-formal and play ay methods.
- **Historical Trends (overview)**
 - Contribution of the following thinkers to the development of ECCE (their principles, applications and limitations) in the context of ECCE.
 - Pestalozzi, Rousseou, Froebel, Maria Montessori," John Dewey, Gijubhai Badheka, Tarabai Modak, M.K. Gandhi, Rabindranath Tagore

Unit II

Total No. of Lecture-7

- **ECCE in India**

- Pre independence period, post independence – Kothari Commission, contribution of the five-year plans to ECCE – Yashpal Committee, Maharashtra Preschool Centre Act.

- **Contribution of the following agencies/programmes to ECCE in India**

ICCW, IAPF, NCERT, ICDS, UNICEF, NCTD, Mobile Crech etc.

Unit III

Total No. of Lecture-10

- **Organisation of pre-school centres**

- Concept of organisation and administration of early childhood centres.
- Administrative set up and functions of personnel working at different levels.
- Building and Equipment: Location and site, arrangement of rooms, different types and size of rooms, play ground, storage facilities, selection of different types of outdoor and indoor equipment, maintenance and display of equipment and material.
- Staff/Personnel service conditions and role: Role and responsibilities, essential qualities of a care giver/teacher, other personnel.
- Record and Report: Types, aim and purpose/need, general characteristics e.g. anecdotal, cumulative sample work, medical etc.

- **Programme planning**

- Planning: Setting goals and objectives of plans long term, short term, weekly and daily planning, routine and schedules.

- **Activities for ECCE**

Unit IV

Total No. of Lecture 15

- Language Arts : Goals of language, types of listening and activities to promote listening various activities (songs, object talk, picture talk, free conversation, books games, riddles, jokes, stories, criteria and selection of activities, teacher's role.
- Art and Craft Activities (Creative activities of expression): types of activities chalk, crayon, paints, paper work and best out of waste. Role of teacher in planning the activity, motivating children. Fostering appreciation of art and craft activities.
- Music, songs, objectives of music education, establishing goals, setting the stage and role of the teacher. Three aspect of music, making. Listening and singing.
- Mathematics: Goals of mathematical learning, developmental concepts at different stages; principles of teaching mathematics – first hand experience, interaction with others, using language, reflection. Mathematical concepts like: classification, conservation, seriation, comparison, counting, fraction, one to one correspondence, addition and subtraction.
- Science; (a) thinking; observing, inferring, classifying, communicating. (b) Concept formation: differentiation, grouping, labelling, role of science. Developing observation. Role of teacher in some important science experiences.
- Social studies: Goals of social studies, field trips. of promoting social studies through celebrations of festivals Role of teacher.

M.A./M.Sc. II Semester III Paper III

CULTURE AND PHYSIOLOGY (Theory)

Programme/Class: Certificate	Year : 2	Semester : III
Subject : Home Science		
Paper Code : A130903T	Course Title : CULTURE AND PHYSIOLOGY	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 20		

OBJECTIVES

- To understand the basic concepts related to culture and psychology with specific reference to cross cultural psychology.
- To understand concerns and issues related to study of culture and psychology.
- To be familiar with research trends in the field of culture and psychology.
- To perceive the need for indigenization and development of humanistic approach in study of culture and psychology.

CONTENTS:

Unit I

Total No. of Lecture-8

- **Understanding the concepts and process related to culture and psychology**
 - Understanding the premise of basic concepts
 - Developmental psychology and culture
- Epistemological considerations

- Positivist and post positivist approach
- Critical Theory
- Constructivist approach
- Socio-historical approach

Unit II

Total No. of Lecture-7

- **Understanding Culture and Development**
 - Importance of Language
 - Social development
 - Personality development
 - Cognition
 - Emotion

Unit III

Total No. of Lecture-5

- **Methodological Issues and theoretical concerns in study of culture and psychology**
 - Biological approaches
 - Cultural approaches
 - Theoretical concerns
 - Methodological issues

M.A./M.Sc. II Semester III Paper IV

STUDY OF FAMILY IN SOCIETY (Theory)

Programme/Class: Certificate	Year : 2	Semester : III
Subject : Home Science		
Paper Code : A130904T	Course Title : STUDY OF FAMILY IN SOCIETY	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 40		

OBJECTIVES

- To understand family as a component of socio-cultural milieu and context.
- To familiarize students with developmental perspective in family life cycle.
- To realize and appreciate universals and variations in family life patterns across cultures and sub-cultures.
- To create awareness regarding philosophy, structure, function, needs and strengths of families with specific reference to the Indian family.
- To understand theoretical and methodological concerns related to family studies.

CONTENTS:

Unit I

Total No. of Lecture-8

- **Family in social context**

- Family as a component of social system, structure and context.

- Family as an evolving and dynamic institution
- Functions of family

Unit II

Total No. of Lecture-8

- **Socio-cultural studies of family patterns in India**

- Family structure: Traditional extended/joint families. .
- Alternate families—single parent, childless, female headed –
- Unitary families
- Cause and effect of different family structures on changing roles of family.

Unit III

Total No. of Lecture-8

- **Approaches and theories in family studies**

- Developmental approach
- Interactional approach
- Institutional approach
- Family life-cycle approach
- Cyclical theory
- Progressive theory
- Structural functional theory

Unit IV

Total No. of Lecture-8

- **Family and societal exchanges/influences**

- Work and family
- Education and family
- Health and family
- Religion and family

- Ecology and family
- Government and family

Unit V

Total No. of Lecture-8

- **Contemporary issues and concerns**

- Family violence, battered women, child maltreatment, sexual abuse.
- Dowry and family violence.
- Child rearing and socialization
- Gender roles.
- Divorce and remarriage.

M.A./M.Sc. II Semester III Paper V

**EARLY CHILDHOOD CARE AND EDUCATION AND STUDY OF
FAMILY AND SOCIETY (Practical)**

Programme/Class: Certificate	Year : 2	Semester : III
Subject : Home Science		
Paper Code : A130905T	Course Title : EARLY CHILDHOOD CARE AND EDUCATION AND STUDY OF FAMILY AND SOCIETY	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 30		

Practicals

- Visits to various centres which enter to the preschool stage eg. Day care centre, Balwadi, Anganwadi, Mobile creche etc.
- Preparing a resources unit file on the basis of play way method approach.
- Prepared teaching material kit and presentation in mock set up.
 - Story and their techniques
 - Types of puppets and mobiles
 - Art and craft portfolio
 - Song booklet and low cost musical instruments
 - Readiness games and material
 - Picture talks and object talk related material etc.
- Preparing a programme of activities for children with special abilities
- Planning and executing activities in ECCI: centres.

- Role play of home visits and conducting a home visit to a family known through practice teaching.
- Planning of a parent teacher meeting: Stimulation of meeting/event/function - Planning programme-evaluating and reporting the programme.
- Study family violence
- Battered women
- Child maltreatment

M.A./M.Sc. II Semester IV Paper I

PERSONS WITH DISABILITIES (Theory)

Programme/Class: Certificate	Year : 2	Semester : IV
Subject : Home Science		

Paper Code : A131001T	Course Title : PERSONS WITH DISABILITIES
Credit : 4	Core Compulsory/Elective
Max Marks : 75+25	Min. Passing Marks
Total No. of Lecture – 30	

OBJECTIVES

- To become aware of various impairments and the manner in which these affect the lives of individuals.
- To identify the physical and social barriers which create difficulties for people with disabilities.
- To understand that there is a wide a variation between people with disabilities and they are not a single group.
- To realise that the experiences of individuals with disabilities are related to their age, gender and also shaped by the context.
- To become aware of experiences of persons with disabilities and recognize that having an impairments is only one aspect of their lives.
- To develop an understanding gained from the experiences of people with disabilities in planning service for them.

CONTENTS:

Unit I

Total No. of Lecture-7

- Various approaches to defining and understanding disability
Philanthropic, medical, administrative, legal and the social.
- Different types of impairments, causes and effects on individuals ·
 - Physical
 - Intellectual

- Emotional
- Sensory

Unit II

Total No. of Lecture-6

- The role of context in the meaning of normality and disability, attitudes of people towards disability.
- The philosophy of inclusion.

Unit III

Total No. of Lecture-6

- Techniques of identification and assessment.
- Physical and social barriers in the development of persons with disabilities. Modification of physical and social environment, enabling participation of persons with disabilities as a contributing member of society.

Unit IV

Total No. of Lecture-5

- Use of assistive devices.
- The shared and varied experiences of those so affected.

Unit V

Total No. of Lecture-6

- The rights versus needs of persons with disabilities.
- Examples of programmes and policies for persons with disabilities.
- Issues in planning inclusive programmes for persons with disabilities.

M.A./M.Sc. II Semester IV Paper II

SCIENTIFIC WRITING (Theory)

Programme/Class: Certificate	Year : 2	Semester : IV
Subject : Home Science		
Paper Code : A131002T	Course Title : SCIENTIFIC WRITING	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 40		

OBJECTIVES

- To be able to appreciate and understand importance of writing scientifically.
- To develop competence in writing and abstracting skills.

CONTENTS:

Unit I

Total No. of Lecture-8

- **Scientific writing as a means of communication**
 - Different forms of scientific writing.
 - Articles in journals, research notes and reports, review articles:': monographs
 - Dissertations, Bibliographies, Book chapters and articles.
- **How to formulate outlines**
 - The reasons for preparing outlines :
 - As a guide for plan of writing
 - As skeleton for the manuscript

- kinds of outline
- topic outlines
- conceptual outlines
- sentence outlines
- combination of topic and sentence outlines

Unit II

Total No. of Lecture-6

- **Drafting titles, sub titles, tables, illustrations**
 - Tables as systematic means of presenting data in rows and columns and lucid way of indicating relationships and results.
 - Formatting tables: Title, body tab, tab column, appendix: use and guidelines.

Unit III

Total No. of Lecture-10

- **The writing process**
 - Getting started
 - Use outline as a starting device
 - Drafting
 - Reflecting, Re-reading
- Checking organization
- Checking headings
- Checking content
- Checking clarity
- Checking grammar
- Brevity and precision in writing
- Drafting and re-drafting based on critical evaluation

Unit IV

Total No. of Lecture-6

- **Parts of dissertation/research report/article**
 - Introduction
 - Review of literature
 - Methods
 - Results and discussion
 - Summary and abstract
 - References
- Ask questions related to : content, continuity, clarity, validity internal consistency and objectivity during writing each of the above parts.

Unit V

Total No. of Lecture-10

- **Writing for Grants**
 - The question to be addressed
 - Rationale and importance of the question being addressed
 - Empirical and theoretical framework.
 - Presenting pilot study/data or background information
 - Research proposal and time frame
 - Specificity of methodology
 - Organization of different phases of study
 - Expected outcome of study and its implications
 - Budgeting
 - Available infra-structure and resources
 - Executive summary

M.A./M.Sc. II Semester IV Paper III

DEVELOPMENT OF CREATIVITY (Theory)

Programme/Class: Certificate	Year : 2	Semester : IV
Subject : Home Science		
Paper Code : A131003T	Course Title : DEVELOPMENT OF CREATIVITY	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 40		

OBJECTIVES

- To understand the relevance and scope of studying creativity
- To discuss the concept of creativity and various approaches to its study
- To understand the role of the individual, the context and socialisation in developing creativity.
- To become familiar with psychometric measurement and alternate ways of assessing creativity.

CONTENTS:

Unit I

Total No. of Lecture-7

- **Definition and concept of creativity**
 - Types and degree of creativity (everyday creativity and eminent creativity)
 - Domains, insight and problems solving as related to creativity.
- **Relevance and scope of the study of creativity**

Unit II

Total No. of Lecture-10

- **Approaches to the study of creativity**
 - Mystical approach (divine gift)
 - Psychology-dynamical approach (Freud)
 - Psychometric approach (Guilford & Torrance)
 - Cognitive approach (Weisberg)
 - Social personality approach (McKinnon)
 - Confluence approach (Gardner)

Unit III

Total No. of Lecture-10

- **The role of the individual**

- Cognition, abilities, interests, attitude, motivation, intelligence, knowledge. skills, beliefs, values and cognitive styles.

Unit IV

Total No. of Lecture-6

- **Relationship between creativity and intelligence.**
- **Influence of child-rearing practices, family and culture.**

Unit V

Total No. of Lecture-7

- **Enhancing creativity–brainstorming problem solving, creative dramatics & visualisation.**
- **Measurement**
- Psychometric and alternate methods of assessing creativity.
-

M.A./M.Sc. II Semester IV (Group B Elective) Paper IV

CARE OF THE ELDERLY (Theory)

Programme/Class: Certificate	Year : 2	Semester : IV
Subject : Home Science		
Paper Code : A131004T	Course Title : CARE OF THE ELDERLY	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 20		

M.A./M.Sc. II (Paper VII B/Group A) Elective

- To identify organisational goals and project objectives.
- To assess the functioning of an ongoing project,

CONTENT

Unit I

No. of Lecture 10

1. Planning

- Basic concepts; need, purpose, feasibility project formulation.
- Functions of planning.
- Steps in planning: define the objectives, quality specifications and outcomes,
- Decide the time frame, plan the cost dimensions, plan implementation details

Unit II

No. of Lecture 5

2. Project identification

- Identifying and defining the project goals
- Project design and strategic planning

Unit III

No. of Lecture 10

3. Management of the Project

- Monitoring and evaluation: supervisory meetings to plan overview.
- Project appraisal, feedback, follow-up meetings.
- Project report

Unit IV

No. of Lecture 5

4. Project sustainability

- Factors and Components of Project sustainability:
- Action plan for sustainability

Practical

1. Prepare a project plan based on the information secured on an existing programme in the locality. (As a learning exercise on a known case).

2. Prepare short term/long-term plans(s) for enhancing quality of any programme/project that exists in the locality
3. Organise and implement some activities and evaluate impact. Prepare report.
4. Draft action plan for sustainability for any programme in the locality.

M.A./M.Sc. II Semester IV Paper V

**PERSON WITH DISABILITIES AND DEVELOPMENT OF
CREATIVITY (Practical)**

Programme/Class: Certificate	Year : 2	Semester : IV
Subject : Home Science		
Paper Code : A131005P	Course Title : PERSON WITH DISABILITIES AND DEVELOPMENT OF CREATIVITY	
Credit : 4	Core Compulsory/Elective	
Max Marks : 75+25	Min. Passing Marks	
Total No. of Lecture – 20		

Practical

1. Review and critique of portrayal of persons with disabilities in the media.
2. To and approaches to assessment.
3. Case study of two persons with disability - a child and an adult.
4. Case study of an organisation with particular reference to its physical and social environment.

5. Tests of creativity: Torrance test of Creative Thinking (TTCT), Bagar Mehdi's Indian adaptation.
6. Use of brainstorming techniques for problem solving.
7. Use of Pame's 5 stage method of creative problems solving.
8. In 6-10 sessions, develop a plot of a story with active participation of children? And dramatise it with them as role-players.
9. Use of consensual assessment technique to rate the creative work of children and adults (stories, poems and artwork).

CURRICULUM FOR EARLY YEARS

M.A./M.Sc., IV Semester (Group B) Elective

Paper III

Marks : Theory 50

Practical – 25

Credit 5

OBJECTIVES

- To realise the importance of early years and why childhood matters.
- To understand the need for curriculum planning in early years and developing understanding of ECCE curriculum models and approaches.
- To develop understanding of current trends, issues, researches, theories and practices of ECCE programmes.
- To understand theories of play, value of play and its implication for ECCE programmes.
- To enable students to:
 - Plan programmes for various ECCE settings and implement the same.
 - Supervise participants in ECCE laboratory settings.
 - Monitor and evaluate different ECCE programmes.

- **Current research and trends in ECCE.**
- **Role of parents and community in Early, Child Development (ECD) Programmes**
 - Developing sensitivity to cultures and traditions community.
 - Methods and strategies for parent and community
 - Reasons for involvement and need assessment
 - Effective use of involvement to monitor and enhance programme quality.

Unit IV

Credit 1

Total No. of Lecture

- **Understanding importance and value of play. Theories of play and their Implications for planning ECCE programmes.**
- **Planning ECCE programmes**

Unit V

Credit 1

Total No. of Lecture-12

- **Issues and concerns related to ECCE/ECD programme**
 - Coverage of populations, reaching the unreached
 - Gender equality and equity
 - Quality and sustainability
 - Training of personnel
 - Accreditation
- **The need and role of advocacy for quality and ECCE programmes**
 - Consultancy and advocacy among ECD professionals.
 - Advocacy role with NGOs Government Institutions, national and international organisations/agencies, policy planners and media.

MONITORING AND EVALUATION OF PROGRAMMES

M.A./M.Sc. II (Paper VIJI A/Group B) Elective

Marks : Theory - 50

Practical - 25

- Stake holders in evaluation: agency clients. professional and other community, funding agency.
- Baseline or benchmark survey
- Formative, summative, ex-post evaluation
- Internal and external evaluation
- Result oriented evaluation
- Methods of evaluation
- Participatory Rapid Assessment (PRA)
- Participatory Learning Assessment (PLA)
- SWOC Analysis
- Culturally adapted/appropriate evaluation techniques.

5. Economic Evaluation

- Effective use of resource
- Achieving value for resources/money
- Time Management efficiency
- Opportunity cost
- Cost minimization analysis (CMA)
- Cost benefit analysis (CBA)
- Cost utility Analysis (CSA)
- Steps in Economic Evaluation
- Identification of costs and consequences
- Measurement of costs and consequences

- Valuation of costs and consequences
- Incremental analysis
- Sensitivity analysis
- Strengths and weaknesses of economic evaluation.

Practicals

Note: Practicals would include observations of functioning of agency/agencies and conducting a small study of monitoring/evaluation of selected agencies.

- Attitudes of others in the family and community.
- Techniques for identification, and recording progress.
- Physical, organisational and social barriers in the development of children with disabilities.
 - Modification and adaptation of physical and social environment; the meaning of inclusion, enabling participation of children with disabilities in the school and community so that they have a sense of belonging as well as an opportunity to become contributing members.

Unit III

Credit 1

Total No. of Lecture-8

- Use of assistive devices.
- Listening to children and including their views in life at school and home.
- Care of the child in the family, role of parents, siblings and other members.

Unit IV

Credit 1

Total No. of Lecture-7

- The rights versus needs of his children.
- Examples of programmes for children with disabilities, innovative projects.
- Issues in planning inclusive care programmes.

Practicals

1. Planning and working with children and parents.
2. Case study of a child with disability.
3. Case study of an organisation for young children with disabilities with particular reference to its physical and social environment.

HIV/AIDS COUNSELLING

M.A./M.Sc., IV Semester (Group B) Elective

Paper IV

Marks : Theory – 50

Practical – 25

Credit 5

OBJECTIVES

- To create awareness of the basic concepts in counselling of persons with HIV/AIDS
- To make them understand psycho-social aspects of HIV/AIDS in relation to family and community life.
- To develop the skills for counselling for behaviour change in persons living with HIV/AIDS.
- To develop skills for home based card and counselling for family members.

CONTENTS

Unit I

Credit 2

Total No. of Lecture-15

- **Basic concepts and facts about HIV/AIDS**
 - Transmission of HIV infection, signs and symptoms of AIDS
 - Diagnosis of HIV infection
 - Management and Care of HIV infected persons
 - Prevention of HIV infection
 - Ethical issues and dilemmas
- **Understanding sexuality, reproductive health and the gender perspective**
 - The human reproductive organs and sexual characteristics

- Meeting the needs of childhood sexuality
- Forms of sexual practice, the harmful side of sex : Sexual abuse

Unit II

Credit 1

Total No. of Lecture-12

- **Psychological aspects of HIV/AIDS. What it means to be a HIV positive**
- **HIV/AIDS counselling**
 - The principles of counselling, goals of HIV/AIDS counselling
 - The prerequisites of counselling, stages of counselling, specific counselling skills
 - Assessment of risk behavior
 - Characteristics & attitudes of a counsellor, the do's and don'ts in counselling
 - Content of communication about HIV/AIDS

Unit III

Credit 1

Total No. of Lecture-7

- **Some specific counselling situations**
 - The activities of pre-test counselling, the concept of informed consent.
 - The types of post-test counselling, the activities of the various types of post-test counselling
 - The psycho-social issues linked with positive diagnosis

Unit IV

Credit 1

Total No. of Lecture-6

- **Coping strategies of HIV/AIDS person**
- **Legal Issues, rights and ethnics**

