

CBCS
M.Sc (Home-Science)
Semester:1

Title : FAMILY AND COMMUNITY RESOURCE MANAGEMENT-I

Code : HMM-1001

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

To enable the students to

- a) Understand the importance of management in micro and macro organizations
- b) Understand the relevance of effective communication.
- c) Evaluate resource utilization in the family and community.

Unit-I Management Thought

The nature and growth of management, definition and concepts of management. Development of management thought. Management Theories.

Unit-II Family as an Institution

Internal organization of the family, family attributes influencing management, Functions of family, Family authority structure – (Roles of Husband and wife), status of Woman in the family.

Unit-III

Decision making –meaning, types of decisions, modes of decisions making techniques and tools for decision making, Decision making in the family.

Unit-IV Communication as a tool of Management

Communication and line of authority, the importance of feedback, the family communication network. Definition, role, nature and significance of Development Communication. Understanding the role of traditional and modern media in development communication. Participatory approaches in development communication.

REFERENCE:

1. Chatterjee, S.S.(1982) An introduction to management , Principles and Techniques, World Press Pvt. Ltd. Calcutta.
2. Deacon R.E and F.M. Firebaugh , (1975) concepts of Home – Management.Hougoton Mifflin Company.
3. Drucker , P. Management : Tasks , responsibilities and practices, Allied publishers.
4. Goode W.M.J(1964) readings on the family and society , Prentice Hall Inc. New Jercey.
5. Gross, I.H., EW Crandall and M.C.Knol, Management for Modern Families, Prentice Hall Inc(Latest Edition)
6. India – areference annual – Research , references and training division, publication division , Ministry of information and Broad casting , Govt.of India(latest Edition)
7. Koontz and Heinz Weihrich (1990) Essentials of Management . McGraw Hill, New Delhi.
8. Nickel , P and Dorsey , Management in Family Living.
9. Rao, N.P(1992) Human Resource Development in Management and Administration (Delhi) B.K. Publishers.
10. Rao T.V.(1992)appraisng and Developing Managerial performance , Academy of Human resource development , Delhi B.K. publishers.

CBCS

M.Sc (Home-Science)

Semester:1

Title : FAMILY AND COMMUNITY RESOURCE MANAGEMENT-I (Practical)

Code : HMM-1071

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

1. A brief report about the functioning of any institution (food science institute, saving, educational institutes etc)
2. Survey of family decision making patterns rural, LIG, MIG.
3. Extension programme planning – An implementation of RAWE
4. Day cottage Training – An implementation of FRM.

CBCS

M.Sc (Home-Science)

Semester: 1

Title: ADVANCED NUTRITION

Code: HMM-1002

Theory

MM: 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

To enable the students to understand nutrition theory at an advanced level.

Unit-I

History of Nutrition – Various phases of History of Nutrition.

Unit-II

PROXIMATE PRINCIPLES

- a) Carbohydrates- Classification, functions, sources and requirements, digestion and absorption, Functions of dietary fibres.
- b) Proteins – Classification, functions, sources and requirements, digestion and Absorption, protein quality, effect of deficiency
- c) Fats- Classification, functions, sources and requirements, digestion and Absorption, effect of deficiency.

Unit-III

VITAMINS

Chemistry, Classification, functions, sources and requirements, digestion and absorption. Effects of Deficiency,

- a) Fat soluble Vitamins A,D, E and K.
- b) Water soluble Vitamins - Vitamins , Thiamin , Riboflavin , Niacin , Pantothenic acid and pyridoxine , B12, Biotin , Ascorbic Acid.

Unit-IV

MINERALS

Chemistry, Classification functions and sources, digestion and absorption. Effects of Deficiency, Effect of Toxicity.

- a) Macro Minerals –Calcium, Phosphorus.
- b) Micro Minerals –Iodine, Fluorine , Copper , Manganese, Chromium , Zinc , Selenium and Iron.

Reference:

1. Bamji M.S.,N. Prahalad Rao, Vinodini Reddy 1998 Advanced text book of nutrition and Dietetics , Oxford and IBH Publishing Co Pvt. Ltd.
2. B.Shrilakshmi- Nutrition Science, third edition, 2016 New Age International (P) Limited, Publishers.
3. Swaminathan M. Advanced textbook of food and Nutrition, Vol I, latest Edition, Bangalore Publishing House
4. Narsinga Rao. Deosthale, K.C Pant Nutritive Value of Indian Foods latest Edition I.C.M.R New Delhi.
5. Proudfit and Robinson_ Normal and Therapeutic Nutrition, Latest Edition Oxford and IBH Publishing Company Pvt. Ltd.

CBCS

M.Sc (Home-Science)

Semester: 1

Title: TEXTILES CHEMISTRY

Code : HMM-1003

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

- To acquaint the students about the polymers of which textile fibres are made.
- To understand the chemistry production and fundamental properties of natural and synthetic fibres.
- To familiarize the students with the chemical processing from desizing to finishing of textiles and principles.

Unit-I

Polymer chemistry- polymers , polymerization , co-polymer , degree of polymerization , orientation and crystallinity of polymers, their influence on fibre properties.

Unit-II

Fibre Study- Chemistry of some cellulosic fibres , protein fibres and synthetic fibres cotton , linen, wool ,silk, rayon ,. Polyester, polyamide , acrylonitrile fibres.

Unit-III

Dyeing and Printing science: Scientific basis of dyeing and printing of textiles-Classification of dyes, Natural and commercial dyes, theory of dyeing and printing.

Unit-IV

Textile Finishes- Some simple and special finishes for preparatory, stabilizing , textural and functional effects.

REFERENCES:

1. Hollen and Saddler – Textiles , the Macmillan company , latest edition Newyork
2. Corbman B.P.Textile : Fibre to Fabric.
3. Doongaji , Sherie and Deshpande , Roshini Basic processes and clothing construction .
4. Thomas , A.J. Art of sowing.
5. Deulkar , Durga , House hold textiles and laundry work.

M.Sc (Home-Science)
Semester:1

Title : DEVELOPMENT OF THE CHILD-I

Code : HMM-1004

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

To enable the students to understand the various development in the individual from infancy to babyhood.

Unit-I

Basis of Human Development

How life begins, conception, importance of conception, prenatal development, stages of prenatal development, Hazards during prenatal period, factors affecting prenatal development.

Alternative methods of Conception.

Unit-II

Infancy, Characteristics of infancy, major adjustment of infancy, Characteristics of infants, Activities of infants, physical and motor development of infants and hazards of infancy.

Unit-III

Characteristics of babyhood, developmental task of babyhood, physical, social, language and personality development of babyhood.

Unit-IV

Emotional behaviour in babyhood, Play and Morality in Babyhood. Hazards in Babyhood. Happiness in baby hood and family relationship.

REFERENCE:

1. Papalia, D.E and olds S.W. (1975) A child's world infancy through adolescence , Tata McGraw hill, N.Park
2. Hurlock Elizabeth B. (1981) Developmental Psychology , A life-span approach , Tata Mc Graw Hill, New Delhi.
3. Ambron's R.S Child Development (1975), Rinehart Press, San – Fransisco.
4. Hurlock , Elizabeth B(1975) Child growth and development , Tata McGraw Hill, New york.
5. Devdas R.P. and Joya .N.(1984) , A textbook on child development , Macmillan , India Limited , New Delhi.
6. Kuppaswamy , B.(1996) , A textbook of child behaviour and development , Konark publishers Pvt. Ltd. New Delhi.
7. Harriman Phip Lawrence & Skinner Charles E. Child Psychology; Child Development and Modern Education.
8. Feldman Robert S. Development Across the Life Span.
9. Shrimali Shyam Sunder, Child Development.

CBCS

M.Sc (Home-Science)

Semester: I

Title : DEVELOPMENT OF THE CHILD-I (Practical)

Code : HMM-1072

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

Practicals:

1. Methods of studying child development theoretical introduction.

Introspection Method, observation method, case study, survey, experimental method

Clinical method.

2. Prepare a kit for an infant

3. Prepare an article for a baby.

4. Observing the preschool children in the following areas of development:

a) Physical Development

b) Motor Development

c) Social Development

d) Language Development

CBCS

**M.Sc (Home-Science)
Semester-I**

Title : STATISTICS.

Code : HMM-1005

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives :

To enable the students to

- a) gain a knowledge of statistics
- b) Understand the significance of research methodology.
- c) Develop the ability to select appropriate methods , collect , classify analyse and interpret data and present a research report.

Unit-I

Meaning of Statistics and its definition , Purpose of Statistics data collection classification analysis and interpretation .

Unit-II

Graphical representation of data , Histogram , Frequency Polygon , Ogive curve etc. Sampling Random and stratified preparing frequency distribution.

Unit-III

Measures of central tendency , mean, median and mode computation and their properties.

Measures of variability- mean , deviation , quantities and standard deviation computation and properties.

Unit-IV

Measure of relationship- Product moment and rank order coefficient of correlation. Basic assumption and interpretation . Normal probability curve its properties and applications.

Reference:

1. Cochran , W and G.M. Cox Experimental Design by John Wiley.
2. Good C.V. and D.E carter- Methods Research Educational , Psychological and Sociological Applications by Century Crafts , New York.
3. Philips B.S. Social Research Strategy and Tactics By Macmillan (1977)
4. Devdas R.P. and K. Kulandaivel Handbook of Research Methodology by Sri RamaKrishan Mission Vidyalaya .(1971)
5. Kerlinger- Foundation of behaviour Research by Holt & Rinehart, New York.
6. Gupta S.P. Statistical Methods of Sultan Chand and Co. New Delhi latest edition.
7. Shukla M.C. and S.S. Gulshan – Statistics: Theory and practices by Sultan Chand and Co. New Delhi latest edition.
8. Garret.

CBCS
M.Sc. (Home science)
Semester: II
Title: FAMILY AND COMMUNITY RESOURCE MANAGEMENT – II

Code: HMM-2001

Theory

MM: 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

To enable the students to

- Understand the importance of management in micro and macro organisations.
- Apply the functions of management in the family situation.
- Evaluate resources utilization in the family and community.

Unit-I

Management functions: - planning, organizing, leading and controlling, resources and constraints in management, delegation and decentralization.

Unit- II

Community and community organization:- community resources- rural and urban,(Conservation of natural resources) civic amenities- nature and importance, (disposal of household waste, water drainage system, roads, public toilets), conventional and non- conventional sources of energy.

Unit-III

Organizational management: - role of government and non-government organizations in the field of health, family welfare, Self-employment and entrepreneurship, sustainable development.

Unit -IV

Principles of human resources use:- methods and technique for improving resources use, improvement of working conditions- changing of attitudes, development of efficient work methods.

REFERENCE:

- 1) Chatterjee, S.S.(1982) An introduction to management , Principles and Techniques, World Press Pvt. Ltd. Calcutta.
- 2) Deacon R.E and F.M. Firebaugh , (1975) concepts of Home – Management.Hougton Mifflin Company.
- 3) Drucker , P. Management : Tasks , responsibilities and practices, Allied publishers.
- 4) Goode W.M.J(1964) readings on the family and society , Prentice Hall Inc. New Jercey.
- 5) Gross, I.H., EW Crandall and M.C.Knol, Management for Modern Families, Prentice Hall Inc(Latest Edition)
- 6) India – areference annual – Research , references and training division, publication division , Ministry of information and Broad casting , Govt.of India(latest Edition)
- 7) Koontz and Heinz Wehrich (1990) Essentials of Management . McGraw Hill, New Delhi.
- 8) Nickel , P and Dorsey , Management in Family Living.
- 9) Rao, N.P(1992) Human Resource Development in Management and Administration (Delhi) B.K. Publishers.
- 10) Rao T.V.(1992)appraisng and Developing Managerial performance , Academy of Human resource development , Delhi B.K. publishers.
- 11) Saiyadain M.S.(1988) Human Resource Management , New Delhi. Tata Mcgraw Hill.

CBCS
M.Sc (Home Science)
Semester: II
Title: NUTRITION IN HEALTH

Code : HMM- 2002

Theory

MM :100 marks (4 Credits)

Sessional : 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End- Semester Examination of two hours duration: 60 marks

OBJECTIVES:

1. To enable students to understand the physiological basis of nutrition.
2. To be aware of the nutritional requirements during the life cycle.

Unit - 1

Recommended Dietary Allowances and nutrition during adulthood:

Recommended Dietary Allowances for Indians. Nutritional requirements during adulthood; Diet and feeding pattern during adulthood

Unit- 2

Nutrition in Pregnancy and lactation:

Pregnancy- Changes during pregnancy, weight gain during pregnancy, complications of pregnancy, Nutritional requirements and its importance during pregnancy.

Lactation- Physiology of lactation, composition of breast milk, Nutritional requirements during lactation.

Unit-3

Nutrition in Infancy and Preschool age:

Growth and Development during Infancy, nutritional requirement during infancy, Advantages of breast feeding, breast feeding Vs formula feeding, weaning and supplementary foods, feeding the premature infants.

Development of preschool children and nutritional requirement for preschool children.

Unit-4

Nutrition during school age, adolescence and elderly:

Physical development and Nutritional requirement for school age children; physical development during adolescent, nutritional requirements during adolescence.; physiological changes in old age, Nutritional requirements for old age.

REFERENCES:

1. Bamji M.S. Prahalad Rao, Vinodini Reddy 2013, Advanced text book of Nutrition and Dietetics, Third edition, Oxford and IBH publishing Co. pvt. Ltd.
2. Swaminathan M.- Essentials of food & Nutrition, second edition. The Bangalore Printing & publishing Co.Ltd, Bangalore.
3. Khanna K.A. Text book of Nutrition and dietetics 1997, New Delhi, Phoenix publishing house pvt. Ltd.
4. Narsinga Rao, Deosthale K.C. Pant, Nutritive value of Indian foods. Latest edition I.C.M.R, New Delhi.
5. Rosbinson and Lawler- Normal and Therapeutic Nutrition, Latest edition. Oxford and IBH publishing company pvt. Ltd.

CBCS

Semester: II

Title: Nutrition in Health (Practical)

Code : HMM-2071

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

PRACTICALS:

1. Planning and preparation of diets for pregnant lady.
2. Planning and preparation of diets for lactating mother.
3. Planning and preparation of diets for Infants (weaning foods).
4. Planning and preparation of diets for Preschoolers.
5. Planning and preparation of diets for School going child.
6. Planning and preparation of diets for Adolescent (boys and girls).
7. Planning and preparation of diets for Adults.
8. Planning and preparation of diets for old people.

CBCS

M.Sc (Home science)

Semester: II

Title : FABRIC CONSTRUCTION AND CLOTHING

Code : HMM-2003

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives :

- To enable students to understand and learn methods of developing .
- To gain knowledge and understanding of fundamentals of wearing .
- To impart the knowledge of garments construction.

Unit-I

Fibres to Yarn- yarn construction , properties , types , spinning methods , variation obtained in yarns.

Unit-II

Yarn to fabric- Looms , weaves , decorative weaves, knitted and non woven fabrics, felting and bonding.

Unit-III

Study of Clothing-Clothing for different age groups , factors affecting the selection of family clothing , Regional variations in clothing in India., Taboos , Fads, craze.

Unit-IV

Fashion in clothing – social and psychological importance of fashion , career opportunities in fashion designing.

REFERENCES:

1. Hollen and Saddler – Textiles , the Macmillan company , latest edition Newyork
2. Corbman B.P.Textile : Fibre to Fabric.
3. Doongaji , Sherie and Deshpande , Roshini Basic processes and clothing construction .
4. Thomas , A.J. Art of sowing.
5. Deulkar , Durga , House hold textiles and laundry work.

CBCS

M.Sc (Home science)

Semester: II

Title : FABRIC CONSTRUCTION AND CLOTHING (Practical)

Code : HMM-2072

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

PRACTICALS.

1. Yarn slippage and thread count.
2. Fabric construction – weaves and its study.
3. Market survey reports of various fabrics available.
4. Suitability of seams to different fabrics.
5. Basics Principles of construction – conversion of a basic draft to design – Adult block variations in top and bottom garments (eg. Salwar and Kameez).

M.Sc (Home science)
Semester: II
Title: DEVELOPMENT OF THE CHILD-II

Code : HMM-2004

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

To enable the students to:

Understand the various developments in the individual from early childhood to adolescence.

Unit-I

Characteristics of early childhood, developmental tasks of early childhood, physical, motor, emotional, moral, language, cognitive and personality development .Hazards and happiness in early childhood.

Unit-II

Characteristics of late childhood, developmental tasks of late childhood, physical, motor, emotional, social, moral, language, cognitive and personality development, Hazards of late childhood.

Unit-III

Puberty, characteristics of puberty, the spurt growth, characteristics of adolescents development tasks of adolescents, physical, emotional and social development of adolescents.

Unit-IV

Personality changes, family relations during adolescence, Hazards of adolescence, problems of adolescents, Adolescent interest, career aspect of Adolescents. Usage of Social networking sites in Adolescence.

REFERENCE:

- 1.Papalia , D.E and olds S.W. (1975) A child's world infancy through adolescence , Tata McGraw hill, N.Park
2. Hurlock Elizabeth B. (1981) Developmental Psychology , A life-span approach , Tata Mc Graw Hill, New Delhi.
3. Ambron's R.S Child Development (1975), Rinehart Press, San – Fransisco.
4. Hurlock , Elizabeth B(1975) Child growth and development , Tata McGraw Hill, New york.
5. Devdas R.P. and Joya .N.(1984) , A textbook on child development , Macmillan , India Limited , New Delhi.
6. Kuppuswamy , B.(1996) , A textbook of child behaviour and development , Konark publishers Pvt. Ltd. New Delhi.
7. Feldman Robert S. Development Across the Life Span.
8. Kalapriya, Play and Play Materials in Pre-Schools
9. Harriman Phip Lawrence & Skinner Charles E. Child Psychology; Child Development and Modern Education.
10. Shrimali Shyam Sunder, Child Development.

CBCS

M.Sc (Home science)
Semester: II

Title : RESEARCH METHODS.

Code : HMM-2005

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

OBJECTIVES:

To enable the students to

- a) Gain a Knowledge of statistics .
- b) Understand the significance of research methodology
- c) Develop the ability to select appropriate methods , collect , classify, analyze and interpret data present a research report.

Unit-I

Parametric and non-parametric tests of significance, t-test and chi-square test.

Unit-II

Data Collection – Interview , questionnaire and sampling techniques , Reliability and validity of instrument.

Unit-III

Types of research – historical survey , experimental case study , definition and identification of a research problem. Selection , theory , hypothesis, basic assumptions and limitations.

Unit-IV

Interpretation and presentation of data , report writing formal , footnotes, bibliographical citations, preparation of abstracts, publication of papers.

REFERENCES:

1. Cochran , W. and C.M. Cox – Experimental Design , by John Wiley(Latest Edition)
2. Good, C.V. and D.E carter – Methods of Research – Educational , Psychological and Sociological applications , by century crafts , New York, (latest edition)
3. Philips , B.S – Social Research Strategy and tactics by Macmillan.(1977)
4. Devdas , R.P and K.Kulandaivel – Handbook of Research methodology , by sri Ram Krishan Mission Vidyalaya(1971)
5. Kerlinger – Foundations of Behavioural Research by Holt C. Rinehart , New York(Latest Edition)
6. Gupta , S.P- statistical methods by Sultan Chand and Co> New Delhi(Latest edition)
7. Shukla , M.C and S.S Gulshan – Statistic : Theory and practice by Sultan Chand and Co, New Delhi latest edition.

CBCS

M.Sc (Home science)

Semester: III

Tilte : HOUSING AND INTERIOR DECORATION

Code : HMM-3001

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

- Understand the factors influencing space designing organization for optimum comfort and functionalism.
- To provide adequate functional and aesthetic space through designing.
- To study the materials along with fitting and fixtures used in residential interiors.

Unit I:

Modern adaptive housing-Concept of modern adaptive house- location, house plan, specification, housing cost, multi- functional space, work areas, aspect, prospect, roominess, grouping , flexibility, ventilation, storage- Architectural and Portable, Lighting- Artificial and Natural, Circulation- Vertical and Horizontal, Privacy- internal and external.

Unit II:

Current trends in residential dwelling-Present housing condition in India- rural and urban, trends in residential housing detached, semi-detached, row houses, multi storied apartments, community clusters of dwelling units for the economically weaker sections, factors influencing changing in trend- environment, social and economic, Current trends in residential dwellings.

Unit III:

Foundations of an ideal housing -Building material- conventional and non conventional, housing standards and housing legislations, Elements, principles and objectives of art and their application in modern urban homes.

Unit IV:

Selection of interiors- decorative and functional-Current trends in interior design and decoration, study of various types of fixtures and fittings used in interiors, their, selection and care.

Reference:

- Agan, T. The House – its plan and use.
- Bhatt, P.D., Goenka S. (1990) : Foundation of Arts Design , Lakhani Book Depot, Bombay.
- Deshpande , R.S(1974) :Modern Ideals Homes for India , United Book Corporation.
- Faulkher, S.(1979): Planning a House , Holt , Rinehart and Wilson.
- Graham , L.(1982): Lighting your Home , Wills and Boons Ltd.
- Peet, L.J.,Picket , M.S and Arnold M.G.(1962) : House hold Equipment 7th Edition John Wiley and Sons Inc.
- Rutt, A.H., Home Furnishing.

CBCS

M.Sc (Home Science)

Semester: III

Titile : HOUSING AND INTERIOR DECORATION (Practical)

Code : HMM-3071

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

Practical:

- Drawing house plans for various income groups (LIG, MIG and HIG).
- Study of building materials.
- Colour schemes and their applications in interior.
- Survey of fittings and fixtures.
- Model marketing- highlighting one interior area.

CBCS

**M.Sc. (Home Science)
Semester III**

Title : THERAPEUTIC NUTRITION

Code : HMM-3002

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

OBJECTIVES:

To enable the students to understand the basics of therapeutic Nutrition.

To educate the students about dietary management and preparation of dietetic food.

Unit-I

Basics of Therapeutic Diet:

Objectives and principle of diet therapy, role of dietitian, therapeutic modification of normal diet, mode of feeding.

Unit-II

Diet during febrile and Gastro intestinal disorder:

Etiology, clinical features, nutritional management of diet and feeding pattern for the treatment of the following diseases:

- | | |
|-------------|-----------------|
| - Typhoid | - Tuberculosis |
| - Diarrhoea | - Constipation. |

Unit-III

Diet in Nutrition Imbalance and Diabetes Mellitus:

Etiology, clinical features, nutritional management of diet and feeding pattern for the treatment of the following disorders:treatment of the following metabolic disorders.

- | | |
|--------------------------|---------------------|
| - Overweight and obesity | - Diabetes mellitus |
| - Underweight | |

Unit-IV

Diet, Liver and Cardiovascular disorder:

Etiology, clinical features, nutritional management of diet and feeding pattern for the treatment of the following diseases:

- | | |
|-------------------|----------------|
| - Hepatitis | - Jaundice |
| - Atherosclerosis | - Hypertension |

Reference:

1. Khanna .K.A textbook of Nutrition and Dietetics , 1997, new Delhi, Phoenix Publishing House Pvt Ltd.
2. Raghuvanshi R.S & Mettal M.- Food Nutritions and Diet Therapy, 2014, Westville publishing House, New Delhi.
3. Bamji M.S., N.Prahalad Rao, Vinodini Reddy 1998 ,Advanced textbook of Nutrition and dietetics Oxford and IBH Publishing Co. Pvt Ltd.
4. Narsingh Rao, Deosthale , K.C.Pant , Nutritve Value of Indian Foods , Latest Edition , ICMR, New Delhi.
5. Proudfit and Robinson_ Normal and Therapeutic Nutrition, Latest Edition Oxford and IBH Publishing Company Pvt. Ltd.

CBCS
M.Sc. (Semester III
Home Science
Title : THERAPEUTIC NUTRITION

Code : HMM-3072

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

PRACTICALS

Planning, Calculation, preparation services and evaluation of diets for the person suffering from the following disorders.

- I. Diet modified in Consistency
- II. Diet in Typhoid
- III. Diet in Tuberculosis
- IV. Diet in Diarrhoea
- V. Diet in Constipation
- VI. Diet in Underweight
- VII. Diet in Overweight
- VIII. Diabetes Mellitus
- IX. Diet in Hepatitis/
Jaundice
- X. Diet in Atherosclerosis
- XI. Diet in Hypertension

CBCS

M.Sc (Home Science)

Semester: III

Title: HISTORICAL PERSPECTIVE OF TEXTILES

Code : HMM-3003

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:-

- To gain knowledge of the significant developments in production of textiles in the world .
- To assess similarities and dissimilarities in different civilizations in terms of fibre production , ornamentation and usage.
- To study textiles of historical significance which influenced other cultures and civilization

Unit-I

Historical development of Fibres- Products , use, design and ornamentation applied and specialities achieved for cotton, wool, linen and silk. Importance of textiles in historical perspective.

Unit-II

Technological Developments of different fibres-Cotton, wool, linen ,silk - in terms of processing tools , equipments used and techniques applied .

Unit-III

Embroideries of India.- Study of various embroideries their Techniques, designs, usage and colours applied.

Unit-IV

Some historical textiles of special significance – carpets, tapestries, Brocades, laces, shawls, resist dyed and Ikat fabrics, printed and painted fabrics.

Reference:

1. Bosomworth Dorothy (1995): The encyclopaedia of patterns and Motifs , Studio Edition , London.
2. Dupont Auberville, M. (1989) : Classic Textiles Bracken Books , London,
3. Gillow John and Sentence Bryan (1999) : World Textiles (London) Thames and Hudson.
4. Ginsburgh, M.(1977):Embroidery , Marshall Cavendish Editions(London)
5. Harris Jennifer(1993): Textiles 5000 years , Henry and Brans Inc, New York.
6. Paine Sheila (1990): Embroided Textiles Traditions, Thames and Hudson , London.
7. Readers Digest (1973): History of Man – The Last Two Million years.

CBCS

M.Sc (Home Science)

Semester: III
Title : Child Behaviour and Development.

Code : HMM-3004

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Unit-I

Concepts, issues and perspective on child development , Behaviourism and Socialization process. Effects of Parental attitude on child behaviour and development.

Unit-II

Theories of Human development – Social learning theory , cognitive theories , Piaget and Bruner, Psychoanalytic theory- Sigmund Freud , psycho social theory Erik. H. Erikson.

Unit-III

Definition and concept of intelligence-Gardner Theory of Multiple Intelligence,. Factors affecting intelligence-Role of Heredity & Environment. Creativity –Definition , characteristics, Nurturing and Stimulation of creativity.

Unit-IV

Meaning and objectives of early childhood care and education , Significance of Nursery School, aim and activities, Creche , Montessori and Kindergarten method , School achievement , Influence of School on child.

Reference:

1. Papalia, D.L. and Ods, S.(1975) Human development . Mc Graw Hill.
2. Crec. J.Craig, (1976) Human development Prentice Hall, New Jersey.
3. B. Kuppaswamy, (1996) a text book of child behaviour and development 3rd edition . Konark publishers. Pvt. Ltd.
4. Thorpe L.P. Schuller L.M.(1965) Personality . Van Nostrand Co. London.
5. Alfred L. Baldwin(1967) Incorries of child development , John Wiley-Sons New York.
6. Baller , W.R and Charles C, (1962). The Psychology of Human growth and development Holt Rinehart-winton.
7. Berk, L.E (2002) Child Development , Prentice Hall India, Delhi.
8. Feldman Robert S. Development Across the Life Span.
9. Kalapriya, Play and Play Materials in Pre-Schools
10. Harriman Philip Lawrence & Skinner Charles E. Child Psychology; Child Development and Modern Education.
11. Newman Philip R. & Newman Barbara M. , Theories of Human Development.

CBCS

M.Sc (Home Science)

Semester:IV
Title : Contemporary Dev. & Women's Issues

Code : HMM-4001

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

To acquaint students with the concept of contemporary development.

To make students aware about various women's issues.

Unit-I

Meaning and Concept of contemporary development in India.

Vocational opportunities for women in India

Women's issues in Contemporary Development.

Social, Reproductive child health, Religious, Educational etc.

Unit-II

Changing trends in society with particular reference to women's status

Concept of women's empowerment.

Issues in empowering India Women.

Unit-III

Science and Technology related to family with special emphasis on women workers.

Time and energy saving appliances in rural and urban areas.

Unit-IV

Consumer education

Governmental policies and constitutional provisions in relation to women's political and legal rights, gender discrimination.

References:

1. Chandra , A. Shah and U. Joshi (1989) , Fundamentals of Teaching Home Science , Sterling Publishers Pvt. Ltd. New Delhi.
2. Indian Journal of Nutrition and Dietetics.
3. Indian Journal Of home Science (Home Science Association of India)
4. Assignment Children (UNICEF)
5. Mukherjee , Neela (1995) , Participatory- Rural Appraisal and Questionnaire Survey , New Delhi.
6. Latest annual report of Dept of women and child welfare , COF and related departments.
7. Shramshakti.
8. Reports of the FAO, WHO, H.O and World Bank.
9. National Perspective Plan for women .
10. year Books
11. Dasgupta , Dalpana : Women on the Indian Scene , Abhinav Publications.
12. Consumer rights.

CBCS

M.Sc (Home Science)

Semester:IV

Title : ERGONOMICS AND HOUSING FINANCE

Code : HMM-4011

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives

- To become aware of the role of ergonomics in work effectiveness and efficiency
- To evaluate ergonomically interior space for various activities.
- To Know and understand the role of housing finance institutions and consumerism.

Unit-I

Occupations and efficiency: Scope of ergonomics in home and other occupations . Nature of work in the household and other occupations . Energy requirement for muscular work and efficiency . Energy expenditure for different activities.

Unit-II

Study of anthropometry: Definition of anthropometry . Postures and their analysis . Principles of motion economy work centers , equipments and tools thermal balance and comfort, effect of noise on muscle, effect of atmospheric pollution , on productivity and well being , effect of lighting and colour on psychological environment.

Unit-III

Consumer Education: Consumer education with reference to household equipment . Rights and duties of the consumer , consumer redressal.

Unit-IV

Housing Finance: Estimating and costing of land price and construction . Factors influencing cost. Sources of financial assistance- housing finance institutions . Various housing schemes: Central and local government programs , industrial housing , Private and Public housing, Housing standard and housing Legislations- building codes, floor space index, technical aspects of house design with reference to principles of planning.

Reference:

1. Agan , Tessie, “ The House Its Plan use”, revised edition (1956), J.B. Lippin Cott. .
2. Dalela S. “ Textbook of work study and Ergonomics” (1971), Standard Publishers.
3. Grandjean E and Kroemer K.H.E.”Fitting the Task to Human: A textbook of occupational Ergonomics (1997), Taylor and Francis, London.
4. Wellss and Kand Luttgens Kathryns, “Kinesiology Scientific Basis of Human Motion”, 6th Edition (1976), Philadelphia: Saunders.
5. Osborne David, “ Ergonomics at work 2nd Edition (1991), John Wiley and sons, New York, London.
6. Rose E. Esther crew Steidi and Bratton, “work in the Home” (1968) , John Wiley and sons , New York.
7. William S. Green and Jordan Patric “Human Factors in product Design : current Practices and future Trends, (1968), Taylor and Francis , London.
8. Peet. L.J., Picker , M.S and Amold M.G, “Household equipment” 7th edition (1962), Wiley and Sons , Inc
9. Sethi , Mohini and Sethuraman , “Consumerism A growing concept” First edition (1994) Phoenix publishers , New Delhi.
10. Divya Nigam and Srivastava , R.M , “Management of India Financial Institutions” (1996), Himalaya Publishing house , Bombay.
11. K.H.E. Kromer, H.B. Lromer and Katrin E. Kromer Elbert, “Ergonomics: How to design for Ease and Efficiency, 2nd edition (Revised 2011), Printice Hall.
12. R.S. Bridger, “ Introduction to Ergonomics” 2nd edition (2003), Taylor and Francis London.

M.Sc (Home Science)

Semester:IV

Title : ERGONOMICS AND HOUSING FINANCE (Practical)

Code : HMM-4071

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

Practicals :

1. A survey of housing finance institutions / building agency.
2. Determination of some selected body dimensions using anthropometry statistical analysis of the data interpretation of findings.
3. Time and Motion Studies- Preparing pathway, process and flow chart Mundels Classes of change for any household activity.
4. Types of Kitchen Plans.

M.Sc (Home Science)
Semester:IV
Title : ADVANCED COMMUNITY NUTRITION

Code : HMM-4012

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives :

To enable students to

- (i) Gain insight –into the nutritional problems and their implications
- (ii) Develop skills in organizing and evaluation of nutrition projects in community.
- (iii) Appreciate the national and international contribution towards nutritional improvement.

Unit-I

Assessment of Nutritional Status – Methods available for the assessment of nutritional status of an individual and a community.

- (a) Direct Methods –Anthropometry, Clinical Examinations, Laboratory and Biochemical assessment, Functional assessment.
- (b) Indirect Methods – Dietary assessment, vital and health statistics.

Unit-II

Prevalence of Malnutrition in India, Ecology of Malnutrition, Factors affecting Malnutrition, Effects of malnutrition and its impact on National Development.

Unit-III

Measures to overcome Malnutrition, Nutrition related policies and program.

- d) National Nutrition Policy - Silent features.
- e) National Food Security
- f) Nutrition Education

Unit-IV

Role of International and National agencies combating malnutrition.

Organizations concerned with foods and nutrition in India.

- (a) International Organization: - FAO, WHO, UNICEF, CARE.
- (b) National Organization: - Indian council of Agricultural Research (ICAR), ICMR, National Institute of Nutrition, Nutrition foundation of India (NFI), Food and Nutrition Board, Central Food Technological Research Institute, National Nutrition Monitoring Bureau, Central Social Welfare Board, Nutrition Society of India (NSI).

Reference:

1. Nutrition Sciences, B. Srilakshami, 5th edition , 2016, New Age International Publication MurthiGayatri –
2. Textbook of Human Nutrition , Bamji M S, 3rd edition 2013, Oxford & IBH publishing company Private Ltd..
3. Nutritional Problem of India, Shukla P K, 1982, Prentice Hall of India.
4. Food Nutrition and Agriculture, Satya Prakash Sinha, edition 2010, Adhyayan Publishers & Distributions
5. Introductory Nutrition, Guthrie Helen Andrews, 4th edition 1979, The C.V. Mosby Company.
6. Nutritive Value of Indian Foods., Narsingh Rao, Deosthale ,K.C.Pant , , Latest Edition , ICMR, New Delhi
7. National Nutrition Policy
8. National Family Health Survey , International Institute of Population sciences, Sovandi station Road, Deonar, Mumbai, 400088 (rchiips.org/nfhs4.shtm)
9. Proceedings of Nutrition Society of India. New –Delhi.
10. www.fao.org, www.who.org, www.care.org, www.icmr.org,
www.cftri.org, www.nutritionocietyindia.org, www.nfi.org, www.nin.org.

CBCS

**M.Sc (Home Science)
Semester:IV**

Title : ADVANCED COMMUNITY NUTRITION (Practical)

Code : HMM-4072

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

PRACTICALS:

Preparation of Low and medium cost diet using locally available foods-

1. Weaning Food 6-9 months
2. Weaning Food 10-12 months
3. Diet rich in Protein
4. Diet rich in Calcium
5. Diet rich in Iron
6. Diet rich in Vitamin A
7. Diet rich in Vitamin B
8. Diet rich in Vitamin C
9. Diet rich in Fiber
10. Survey of Foods habits of School Children and Adolescents.

CBCS

M.Sc (Home Science)

Semester:IV

Title : Educational Psychology

Code : HMM-4013

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Unit-I

Definition and concept of Educational Psychology

Nature of Educational Psychology

Scope of Educational Psychology

Methods used in Educational Psychology

Unit-II

Meaning and concept of Growth and Development

Educational implication of the principles of Growth and Development

Factors influencing Growth and Development.

Unit-III

Piaget theory of Intellectual Development

Critical Evaluation of Piaget's Theory

Appreciation and contribution of Piaget's Theory to Education

Unit-IV

Meaning and Definition of Individual Differences

Types of Individual differences

Determinants of Individual differences

Educational implications of the psychology of individual differences.

References:

1. Advanced Educational Psychology (2011) by S.K. Mangal
2. S.S. Chauhan, Advanced Educational Psychology (2007) by S.S. Chauhan
3. Human Development (1978) by Papalia and Sally W.Olds.
4. Developmental Psychology: A life span approach by Elizabeth Hurlock.

CBCS

**M.Sc (Home Science)
Semester:IV**

Title : TEXTILE DESIGN AND MARKETING

Code : HMM-4021

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives :

1. To acquaint the students with the multifaceted profile of the textile industry of India.
2. To develop awareness and impact creative skills for designing textile products.
3. Learn the basics of marketing with reference to textiles.

Unit-I

Designing in Textiles: Study of Principles and elements of art and design ,their application in textile Designs, structural design and surface design.

Unit-II

Process of designing – Motif development – geometrical , simplified , naturalized, stylized , abstract and ornamental , colour consideration – colour harmonies and colour ways.

Unit-III

Textile and Clothing Industry in India:Importance of Textile and Clothing Industry in the Indian economy – Its problems and prospects. National textile policy.

Unit-IV

Marketing organizations- different types of markets and its functions , channels of distribution and standardizations and labeling , consume problems and consumer protection , consumer movement in India, Information marketing with reference to textiles.

Reference:

1. Chuter, A.J.Introduction to clothing production management.
2. Davis , M.L(1996) visual design in press Prentice Hill Inc.
3. Economics Survey , Govt . of India.
4. Management Task , responsibilities and practices , P.F. Druiker, Allied publishers Mumbai.
5. Mishra and Puri, Indian Economy , Himalaya Pub . House .
6. National Textile policy , 1986 , 2000
7. Rutt, Anna Hong – Home furnishing , Wilery Eastern University, Edition 1975

M.Sc (Home Science)

Semester:IV

Title : TEXTILE DESIGN AND MARKETING (Practical)

Code : HMM-4073

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

PRACTICALS:

1. Preparation of a fabric for dyeing, painting and printing.
2. Preparation of the samples for dyeing, painting and printing.
3. Portfolio development (a) through the use of basic unit of design i.e the block ,the drop, the brick , the step through the use of the square /the triangle / the diamond , the hexagon, the scale and the ogee.(b) Collection of photographs and drawings.
4. Visit to Handicraft Centre.

CBCS

M.Sc (Home Science)

Semester:IV

Title : CHILD PERSONALITY AND FAMILY RELATION

Code : HMM-4022

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Unit-I

Concepts, meaning and definition of personality. Personality determinants, physical, psychological intellectual, emotional and social determinants, influence of child rearing practices on personality.

Unit-II

The child in the family , parental attitude and disciplinary techniques. Parents children interaction, role of siblings and peer on children's personality, Grand parents in the Family.

Unit-III

Individual differences, Meaning and Definition of individual differences and its types, hyperactive children, learning disabilities, learning and educating children with disabilities, gifted children and their education.

Unit-IV

Concept of self , self concept and adjustment . Components of the self concept , Development of Self-concept, role of family and teachers in the child's self concept, conscience development.

Reference:

1. Papalia D.L and Ods, S (1975) Human development .Mc Graw Hill.
2. Crec J. Craig (1976) Human development , Prentice Hall, New Jercey.
3. B.Kuppuswamy (1996) A text book of Child behaviour and development 3rd Edition Konark Publisher Pvt. Ltd.
4. Thorpe L.P.Schmuller A.M(1965) Personality Van Norstand Co. London.
5. Baller W.R and Charles C.1962. The Psychology of Human growth and development, Halt rinetent – winton.
6. Kathorina H. The Nursery School.
7. Alfred L.Baldwin (1967) Incories of child development , John wiley-Sons Newyork.
8. V.R. Taneja – theories & Principles of Education .
9. Thompson – Applied Psychology.
10. Berk, L.E(1992) Child development.
11. Hurlock Elizabeth B. (2011) Personality Development.
12. Harriman Phip Lawrence & Skinner Charles E. Child Psychology; Child Development and Modern Education.

CBCS

M.Sc (Home Science)

Semester:IV

Title : CHILD PERSONALITY AND FAMILY RELATION (Practical)

Code : HMM-4074

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

Practicals:

1. Survey on children play activities.
2. Preparation of stories , for moral and social development .
3. Preparation of Rhymes for moral and language development
4. Survey on Parents and children relationship
5. Kit preparation for cognitive development of the child.

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**M.Sc (Home Science)
Semester:IV**

Title : Non Formal Education

Code : HMM-4023

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

To enable the students to understand the process of Non Formal Education in development process.

To teach Non Formal Education at the grass roots level.

Theory:

Unit-I – Origin of Non Formal Education

Definition, origin, meaning, history, principles, characteristics and objectives of Non Formal Education.

Unit-II – Non Formal Education and the agencies

Agencies of NFE-house, religion, community and others, Main schemes of NFE, Curriculum planning of NFE, Difference between Formal and Non Formal Education.

Unit-III- Process of Non Formal Education

Adult education, Continuing education, Role of educator, Role of people, Feedback and evaluation in extension.

Unit-IV – Non-Formal Education as Extension Education

Extension education, Its principles, Qualities of extension worker, Effect of non-school learning, Difference between formal and extension education.

Reference:

1. Crow L.D. and Crow A, (1962), Introduction to Education, Eurasia Publishing House Pvt. Ltd., New Delhi.
2. Dahma O.P. and Bhatnagar O.P. (2014), Education and Communication for Development, Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
3. Kneller, Foundations of Education.
4. Shah A.B. and Bhan Susheela (1980), Non Formal Education and the NAEP, Published by R. Dayal, Oxford University Press, Daryaganj, New Delhi.
5. Taneja, V. Ratna, Educational Thought and Practice.
6. Khosla Anju and Manocha Ruchi (2014), UGC NET/SET Home Science, Danika Publishing Company.

CBCS

M.Sc (Home-Science)

Title : Entrepreneurship and Skill Development

Code :

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

To enable the students to

- a) To understand the importance of entrepreneurship.
- b) To develop skills need for entrepreneurship.

Unit-I

Retail Services Management

Concept of Retail Banking, Features, Utility and Government Policy for Retail Banking Commercial Banking.

Unit-II

Hospitality Management

Hospitality Management Services- Beverages and Food outlets, cafeteria, Fast food etc. Promotion and Marketing.

Unit-III

Buying Behaviour and consumer skills

Consumer Decision Making, Purchasing and Decision Making, Post Purchase Consumer Behaviour, Role of Women in Purchasing Decisions.

Unit-IV

Entrepreneurship Development facilities and institutions

Creche Training, Home Economics, Extension in Industrial Communities, Summer Camp Training, Exhibits and Home products.

Government and Non-Governmental Institutions and Facilities.

Reference:

7. "Management of Indian Financial Institutions" by R.M. Srivastava and Denya Niagin Himalaya Publishing House.
8. "Managing Hotels and Restrueants" by Jagmohan Negi, Gaurav M.J. , Ritushka, Suinti, II edition 2012, Sri Krishna Offset Press Delhi.
9. "Women in Family Decision Making" by Edmin G Manadhas and Chithra James, I edition 2011, Descanery Publishing Hense Pvt. Ltd.
10. " Home Management & House Keeping" by Priy Bhargan and Tara Chanel, I edition 2005, Commonwealth Publishers, New Delhi

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CBCS

M.Sc (Home-Science)

Semseter: 1

Title: ADVANCED NUTRITION

Code: HMM-1002

Theory

MM: 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

Objectives:

To impart the Advanced content of Nutrition as branch of knowledge .

Unit-I

History of Nutrition –The advent of the Science of Nutrition Various phases of History of Nutrition-dates for specific discoveries.

Unit-II

PROXIMATE PRINCIPLES

- a) Carbohydrates- Classification, functions, sources and requirements, digestion and absorption, Dietary fibre and its importance in medium Nutrition. .
- b) Proteins – Classification, functions, sources and requirements, digestion and Absorption, protein quality, effect of deficiency , toxicity , imbalance .
- c) Lipids and Fatty acids - Classification, functions, sources and requirements, digestion and Absorption, effect of deficiency and toxicity.

Unit-III

VITAMINS

Chemistry, Classification, functions, sources and requirements, digestion and absorption. Effects of Deficiency, toxicity , imbalance (New Perspective)

- a) Fat soluble Vitamins A,D, E and K.
- b) Water soluble Vitamins - Thiamin , Riboflavin , Niacin , Pantothenic acid and pyridoxine , B12, Biotin , Ascorbic Acid , PABA and others.

Unit-IV

MINERALS

Chemistry, Classification functions and sources, digestion and absorption. Effects of Deficiency, Effect of Toxicity.

- a) Macro Minerals –Calcium, Phosphorus.
- b) Micro Minerals –Iodine, Fluorine , Copper , Manganese, Chromium , Zinc , Selenium and Iron other trace elements.

Reference:

1. Bamji M.S.,N. Prahalad Rao, Vinodini Reddy 1998 Advanced text book of nutrition and Dietetics , Oxford and IBH Publishing Co Pvt. Ltd.
2. B.Shrilakshmi- Nutrition Science, third edition, 2016 New Age International (P) Limited, Publishers.
3. Swaminathan M. Advanced textbook of food and Nutrition, Vol I, latest Edition, Bangalore Publishing House
4. Narsinga Rao. Deosthale, K.C Pant Nutritive Value of Indian Foods latest Edition I.C.M.R New Delhi.
5. Proudfit and Robinson_ Normal and Therapeutic Nutrition, Latest Edition Oxford and IBH Publishing Company Pvt. Ltd.

CBCS

**M.Sc. (Home Science)
Semester III**

Title : THERAPEUTIC NUTRITION

Code : HMM-3002

Theory

MM : 100 marks (4 Credits)

Sessional: 10 marks

Mid-Semester Examination of one hour duration: 30 marks

End-Semester Examination of two hours duration: 60 marks

OBJECTIVES:

To enable the students to understand the basics of therapeutic Nutrition.

To educate the students about dietary management and preparation of dietetic food.

Unit-I

Basics of Therapeutic Diet:

Objectives and principle of diet therapy, therapeutic modification of normal diet, mode of feeding, role of dietitian.

Unit-II

Diet during febrile, dietary ,Gastro intestinal and liver disorder:

Etiology, clinical features, nutritional management of diet and feeding pattern for the treatment of the following diseases:

- 1- Typhoid
Malaria
Tuberculosis
- 2- Hepatic
Jaundice
- 3- Diarrhoea
Constipation
Coelic

Unit-III

Diet in Diabetes Mellitus:

Etiology, clinical features, nutritional management of diet and feeding pattern for the treatment of the following disorders :treatment of the following metabolic disorders

- Diabetes mellitus
- Obesity and weight disorders

Unit-IV

Cardiovascular and renal disorder:

Etiology, clinical features, nutritional management of diet and feeding pattern for the treatment of the following diseases:

- Atherosclerosis and Familial Hyper and cholesteomia
- Hypertension
- Renal Failure
- Impaired kidney jaundice
- Hyperuricimia , gout.

Reference:

6. Khanna .K.A textbook of Nutrition and Dietetics , 1997, new Delhi, Phoenix Publishing House Pvt Ltd.
7. Raghuvanshi R.S & Mettal M.- Food Nutritions and Diet Therapy, 2014, Westville publishing House, New Delhi.

8. Bamji M.S., N.Prahalad Rao, Vinodini Reddy 1998 ,Advanced textbook of Nutrition and dietetics Oxford and IBH Publishing Co. Pvt Ltd.
9. Narsingh Rao, Deosthale , K.C.Pant , Nutritve Value of Indian Foods , Latest Edition , ICMR, New Delhi.
10. Proudfit and Robinson_ Normal and Therapeutic Nutrition, Latest Edition Oxford and IBH Publishing Company Pvt. Ltd.

Code : HMM-3072

Practical

MM : 100 marks (2 Credits)

Continuous Evaluation: 40 marks

End-Semester Examination of two hours duration: 60 marks

PRACTICALS

Planning, Calculation, preparation services and evaluation of diets for the person suffering from the following disorders.

- 1-Diet in Typhoid
 - Diet in Tuberculosis
 - Diet in Malaria

- 2- Diet in Diarrhoea
 - Diet in constipation
 - Diet in coelic

- 3- Diet in Underweight
- 4- Diet in Overweight
- 5- Diabetes Mellitus
- 6- Diet in Hepatitis /Jaundice
- 7- Diet in Atherosclerosis
- 8- Diet in Hypertension
- 9- uricemia gout