

CHOICE BASED CREDIT SYSTEM
M.Sc. (Home Science) in Resource Management

Total No. of Credits = 100

Theory papers	Max. Marks		
Semester I			
Paper I : Research Methodology	100	4	
Paper II : Theories and Concepts in Resource Management	100	4	
Paper III : Management of Energy and Household Equipments	100	4	
Paper IV : Family Decision Making	100	4	
Practicals			
<u>Based on Papers I, II, III, IV + Seminar</u>	<u>200+25</u>	<u>8+1=9</u>	
Total No. of marks=		625	
		25credits	
Semester II			
Paper I : Statistics and Computer Application	100	4	
Paper II : Interior Design and Decoration	100	4	
Paper III : Activity Analysis and Ergonomics	100	4	
Paper IV : Housing Design and Programme	100	4	
Practicals			
<u>Based on Papers I, II, III, IV + Seminar</u>	<u>200+25</u>	<u>8+1=9</u>	
Total No. of marks =		625	
		25credits	
Semester III			
Paper I : Entrepreneurship Development and Management	100	4	
Paper II : Household and Environment	100	4	
Paper III : Gender and Development	100	4	
Paper IV : Financial Management	100	4	
Practicals			
<u>Based on Papers I, II, III, IV + Seminar</u>	<u>200+25</u>	<u>8+1=9</u>	
Total No. of marks=		625	
		25credits	
Semester IV			
Part I	Implant Training / Internship or	200	7
Part II	Dissertation	200	10
Part III	Seminar and viva voce on Implant Training / Internship and Dissertation	125	4
Part IV	General Seminar	100	4
Total No of marks=		625	25 credit

Semester I
Paper I: Research Methodology
CREDIT-4 (L-3 T-1)

UNIT:1 (15 Contact hours)

Research Methodology – Meaning, objectives and types of research. Research approaches, Significance of research, Research and scientific methods, Research process and Criteria of good research.

Definition and Identification of a Research Problem – Selection of Research problem, Justification, Theory, Hypothesis, Basic assumptions, Limitations and delimitations of the problem.

UNIT:2 (15 Contact hours)

Research Design – Meaning and needs, Features of a good design; important concepts relating to research design, Variables, Experimental and Control groups, Different research designs–exploratory, descriptive and diagnostic, Hypothesis testing research. Sampling Design– Population and Sample, Steps in sampling design, Criteria for selecting a sampling procedure, Different types of sampling techniques–Probability sampling and Non-probability sampling.

Methods of Data collection–Schedules and Questionnaires, Interview, Case study, Home visits, Scaling methods, Reliability and Validity of measuring instruments.

UNIT:3 (15 Contact hours)

Concept and characteristics of a normal probability curve. Analysis of Data – Graphical and Diagrammatic presentation.

UNIT:4 (15 Contact hours)

Interpretation – Meaning of Interpretation, Technique of Interpretation, Precaution in Interpretation– Interpretation of tables and figures. Report Writing - Significance of report writing, Different steps in writing report; Types of reports, Mechanics of writing a Research Report and precautions for writing research reports. Use of Computers in Statistical Analysis – The computer system and technology, important characteristics of computer applications in researches.

Paper II: Theories and Concepts in Resource Management

UNIT:1 (15 Contact hours)

CREDIT-4 (L-3 T-1)

(A) Family Resource Management as a field of study

- Historical Perspective
- Introduction
- Modern Concept
- Stages of development as a discipline

(B) Interdisciplinary nature of Family resource Management.

- Contribution of business management
- Contribution of behavioural science
- Contribution of farm management

UNIT:2 (15 Contact hours)

(A) Philosophy and role of Family resource Management in Home Science Education

(B) Motivation for Management

- Factors influencing management process
- Family needs and functions
- Values- Sources and patterns of values
- Attitudes and beliefs
- Family goals
- Standards - relevance to goal attainment
- Interrelationship of concepts of management

UNIT:3 (15 Contact hours)

(A) Resources

- Classification and characteristics
- Resource assessment
- Resource interactive issues of family and farm system
- Resource generation and allocation in transitional society

(B) Management Process

- Nature and role of management
- Conceptual framework
- Challenges in management process

UNIT:4 (15 Contact hours)

(A) Decision Making

- Classification and models for decision making
- Role of decision making in management
- Decision making and gender perspective

(B) Status of research In family Resource Management

- Scope for research
- Research gaps

References:

- Sushma Gupta, Neeru Garg and Amila Agarwal The text book of Home Management, Hygiene and Physiology., Latest Ed., Kalyani Publication.
- The educational Planning Group. Home Management, Latest Edition, Arya Publication House.

Paper III : Management of Energy and Household Equipments

CREDIT-4 (L-3 T-1)

UNIT:1 (15 Contact hours)

(A) Growth and development in household equipment technology

- **Trends in Equipment**
 - Kinds of equipment
 - Base material and finishes
 - Design and Construction

(B) Evaluation of design, performance and safety standards

- Organisation developing equipment standards
- Types of standards already developed
- Evaluation of equipment as per the developed Standards
- Equipment standards needed for
 - Normal Home makers
 - Handicapped Home makers.

UNIT:2 (15 Contact hours)

(A) Ergonomic Principles in relation to household equipment

- The workers while using equipment\
 - Concept of human cost of work.
 - The cognitive component
 - The temporal component
 - The physical component
- The work and the equipment
- The work place and the usage of equipment

(B) Basics of electricity

- conductors and non- conductors,
- generation of electric current
- wiring, wiring in home , master control of building
- wiring system, circuits, current, and kinds of electric
- current, voltage, over current protective device
- Motor safety devices, electrical accessories.

UNIT:3 (15 Contact hours)

Equipment Classification

- Electrical, Non electrical, tools, utensils etc.

UNIT:4 (15 Contact hours)

Drudgery reducing equipments

- Use and maintenance of house hold equipments
- Energy crisis, conventional and non conventional

- Energy sources
- Energy Conservation methods.

References:

- Louise Jension Peet, Lenore Sater Thye. House hold equipment (1949), 5th edition.
- Louise Jension Peet, Lenore Sater Thye. House hold equipment (1955), 4th edition.
- Forence Ehrenkranz, Lydia Inman, Equipment in the Home (1958)

Paper IV: Family Decision Making

UNIT:1 (15 Contact hours)

CREDIT-4 (L-3 T-1)

(A) Decision Making

- Importance of Decision Making
- Classification Of Decisions
- Steps involved in Decision Making

(B) Problem Solving

- Modes of Problem solving
- Importance of Problem solving in Decision Making

UNIT:2 (15 Contact hours)

(A) Communication

- Interpersonal communication
- Communication and Decision Making

(B) Conflicts

- Levels of conflicts
- Methods of resolving conflicts
- Certainty and Levels of risk

UNIT:3 (15 Contact hours)

Decision

- Decision rules
- Decision tree
- Factors influencing decisions related to Family resources

UNIT:4 (15 Contact hours)

Researches in Decision Making in Indian Families

References:

- Sushma Gupta, Neeru Garg and Amila Agarwal. The text book of Home Management, Hygiene and Physiology., Latest Ed., Kalyani Publication
- The educational Planning Group. Home Management. Latest Edition, Arya Publication House.
- Paulene Nickell, Jean Muir Dorsey, Management in Family Living, Fourth edition. CBS Publishers and distributors, New Delhi

PRACTICALS OF SEMESTER I

**Based on paper I, II, III & IV
paper I:**

CREDIT- 8 (P-8) Practicals of

- Observations on general development of new born and preschoolers.
- Rapid participatory observations with adolescent groups and families across various socio-economic status.
- Rapid participatory observation among old people in institutions and non-institutional setups.

Exercises relating to preparation of research designs. Preparation of tools for data collection. Administration of these tools.

Practicals of paper III:

- Tracing trends in equipment technology
- Efficiency and performance testing of various household equipment
- Use, care and maintenance of electrical equipments.
- Use ,care and maintenance of non electrical equipments
- Identification of equipments related to food and their working.
- Identification of equipments related to cleaning, laundry and their working
- Identification of equipments related to recreation and their working.
- Fuse replacement making electric connection in homes and labs.
- Anthropometry and work space dimensions
- Measures of the physical cost of work while using The equipment
- Visit to equipment industries

Practicals of paper IV:

Conducting case study of 5 families to analyse -

- Decision making styles
- Communication pattern
- Decision patterns in the family for different socio-economic groups

Semester II

Paper I: Statistics and Computer Applications

UNIT:1 (15 Contact hours)

CREDIT-4 (L-3 T-1)

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.

UNIT:2 (15 Contact hours)

Normal distribution – Use of normal Probability tables.Parametric, non-parametric tests.Testing of hypothesis, Type I and II errors. Level of significance.

UNIT:3 (15 Contact hours)

Chi-Square test. Goodness of fit independence of attributes 2 X 2 and r X c contingency tables.Application of student ‘t’ test for small samples. Difference in proportion for means and difference in means.Correlation, Coefficient of correlation, ranks correlation.

UNIT:4 (15 Contact hours)

Fundamental of computer, History of computer, Generation of computer, Language, Components, Applications of Computers. Operating System & Internet: MS-DOS, MS-Windows, and Internet.MS-Office: MS-Word, MS Excel and Power Point. Introduction to Data-base Management system, Fox-Pro.

References:

1. Basandra, S.K.: Computer for Managers, Designing An Effective Management Information System, Abhinav Publishing Industries, N. Delhi, 1965.
2. Diwan, Parag, Information System Management, Deep & Deep Publications, New Delhi, 1997.
3. Laudon, Kenneth C. and London, Jane Price, Management Information System: A Contemporary Perspective, Macmillan Publishing Company, New Delhi.
4. Mehta, Versham Management Information System, Anmol Publication, New Delhi, 1998.

Banerjee, Utpal K. and sachdeva, R.K., Management Information System: A New Framework, Vikas Publishing House, Pvt. Ltd., New Delhi.

Paper II : Interior Design and Decoration

UNIT:1 (15 Contact hours)

CREDIT-4 (L-3 T-1)

(A) Impact of housing and interior designing on

- Physical wellbeing of the family
- Psychological wellbeing of the family
- Social wellbeing of the family

(B)Functional and aesthetic aspects in interior designing

- Use of space
- Use of colour
- Use of texture
- Use of pattern
- Use of lighting

UNIT:2 (15 Contact hours)

(A)Furniture and Furnishings

- Evolution of various styles in furniture design
- Furniture design principles
- Factors affecting the choice of furniture and furnishings
- Draperies and curtains
- Floor coverings
- Upholstery
- Accessories and arrangements

(B)Care of furniture and furnishings

UNIT:3 (15 Contact hours)

(A)New trends in furniture design and style

- Changing trends in design and style of furniture
- Use of various materials in furniture design
- Functional utility of various materials and designs

(B)Table setting

- Residential
- Commercial

UNIT:4 (15 Contact hours)

(A)Flower needs for interior designing

- Residential settings
- Professional settings

(B)Current trends in interior designing with emphasis on -

- New items of furnishing
- Materials and cost of furnishings
- Application and experiments by the interior designer

(C)Project formulation and estimation of costs of the projects

References

- Devan, Dorothy. Introduction to Home furnishings. New Me Millan. London
- Art in everyday life, IV Ed., The Macmillan Company, Newyork

- Wilton, S. Interior Design and Decoration. JB Lippincott company, Newyork.
- XFaulkmer.R. and Faulkner, S. Inside today's home, Rinchart and Winston Inc., Newyork

Paper III: Activity Analysis and Ergonomics

UNIT:1 (15 Contact hours)

CREDIT-4 (L-3 T-1)

(A) Definition and classification of household work

(B) Factors influencing performance of household work

UNIT:2 (15 Contact hours)

(A)Ergonomics

- Scope and importance
- History of ergonomics
- Ergonomic analysis of work
- Work, worker and workplace
- Relationship between man-machine-environment

(B)Concept of human cost of work in relation to affective, cognitive, Temporal and physical components

- Cost of work
- Physiological cost of work
- Cardiac cost of work
- Perceived rate of exertion
- Frequency of performance of activity
- Incidence of pain by body map

UNIT:3 (15 Contact hours)

(A)Functional designs and arrangement of kitchen and other work centers

- Rural kitchen
- Urban kitchen

(B)Ergonomic analysis of various work centers in home

UNIT:4 (15 Contact hours)

Procedure for designing work through time and motion study techniques

- Motion economy
- Design of work method.

References

- Grandjean, E., Ergonomics of the Home. Taylor and Francis Publications.
- McCormick, E.J., Human Factors in Engineering and Design, Mc Graw Hill Book Company Inc., New York.

Paper IV: Housing Design and Programme

UNIT:1 (15 Contact hours)

CREDIT-4 (L-3 T-1)

(A)Housing

- Introduction
- Factors affecting housing
- Private and public housing
- Housing standards
- Housing needs
- Housing demands and future projections
- Functional design in house

(B)Types of housing

- Own house
- Rented house
- Cooperative housing
- Slum and squatters

UNIT:2 (15 Contact hours)

(A)Principles of town and country planning

(B)Family housing

- Financing
- Role of governmental and non governmental agencies
- Housing schemes
- Housing byelaws

UNIT:3 (15 Contact hours)

Researches related to social, psychological and physical aspect Of housing

- Housing research institutions

UNIT:4 (15 Contact hours)

Essential services in housing

References:

- Sushma Gupta, Neeru Garg and Amila Agarwal. **The text book of Home Management**, Hygiene and Physiology., Kalyani Publication.
- **Home Management**, The educational Planning Group, Arya Publication House Latest edition.
- Paulene Nickell, Jean Muir Dorsey. **Management in Family Living**, Fourth edition CBS Publishers and Distributors, New Delhi.
- Goodyear, M. R. and Klohr, M.C. **Managing for effective living**, Kalyani publication.
- Pugh, Cedric, 1990. **Housing and urbanization**. Sage publications, New Delhi
- Cherunilam , Prances and Heggade, Odeyon, D. 1987. **Housing in India**. Himalaya publishing house, New Delhi
- **National Buildings Organization** – monograph of housing statistics
- NBO, **Low Cost Housing Design** , N. B. O. New delhi.

- Mathur, G. C. 1983. **Low Cost Housing In Developing Countries**. Oxford & IBH publishing Co. Pvt., Ltd. New Delhi.

Khurana, M. L. 1997. Reading in Cooperative Housing, N.B.O.; New Delhi.

PRACTICALS OF SEMESTER I

Based on paper I, II, III & IV

CREDIT-8 (P-8)

Practicals of paper I : Based on the topics of paper I.

Practicals of paper II:

- 1. Graphic presentation of interiors -**
 - Residential
 - Commercial

- 2. Developing Colour schemes-**
 - Residential
 - Commercial

- 3. Critical analysis of interior decoration of selected houses**

- 4. Suggestions for improvement in interior decoration**

- 5. Flower arrangement**
 - Styles of flower arrangement
 - Preparations of wood and other plant material for permanent arrangements

- 6. Table linens**
 - Preparation of table linens
 - Use of table linens in interiors

- 7. Accessories**

- 8. Organising an exhibition on Interiors with display in different**

- 9. Room arrangements**

Practicals of paper III:

- Planning , organizing and evaluating work areas
- Analysis of time cost, Physiological cost of work
- Determining work space and storage equipments for various work centre and activities
- Ergonomic analysis of furniture and furnishings
- Ergonomic analysis of work of farm women in different Activities-
 - Fodder collection
 - Fuel collection
 - Fetching of Water
 - Milking activity
 - CookingOther activities

Practicals of paper IV:

1. Evaluation of existing rural and urban houses of different Socio economic groups
2. Estimating the cost of each type of house of each category
3. Visit to housing colony
4. Visit to research institutes
11. Preparation of house plans of different socio economic groups

Semester III
Paper I: Entrepreneurship Development and Management

CREDIT-4 (L-3 T-1)

UNIT:4 (15 Contact hours)

(A) Entrepreneurship

- Concept and meaning need for entrepreneurship development.
- Competencies / qualities of an entrepreneur

(B) Entrepreneurial Support System

- District Industry Centers (DICs)
- Commercial Banks
- State Financial Corporations.
- Small Industries Service Institutes (SISIs), Small industries Development bank of India (SIDBI), National Bank for Agriculture and Rural Development (NABARD), National small Industries Corporation. (NSIC)

UNIT:2 (15 Contact hours)

(A) Market Survey and Opportunity Identification (Business Planning)

- How to start a small scale Industry
- Procedures for registration of small scale industry.
- List of items reserved for exclusive manufacture in small scale industry.
- Assessment of demand and supply in potential areas of growth.
- Understanding business opportunity.
- Consideration in production selection.
- Data collection for setting up small venture.

(B) Project Report Preparation

- Preliminary Project Report
- Techno – Economic feasibility report
- Project viability

UNIT:3 (15 Contact hours)

(A) Managerial Aspect of small Business

- Principles of Management
- Operational Aspects of Production
- Inventory management
- Basic principles of financial management
- Marketing Techniques.
- Personnel Management.
- Importance of communication in business.

(B) Legal Aspects of small Business

- Elementary knowledge about income tax, sales tax, Patent rules & Excise rules.
- Factory Act and Payment of wage Act.

UNIT:4 (15 Contact hours)

(A) Environmental Considerations

- Concepts of ecology and environment.
- Factors contributing to Air, Water, Noise pollution and their standards and control
- Personal Protection Equipment (PPEs) for safety at work places.

(B) Miscellaneous

- Human relations and performance in organization

- Relation with subordinates, peers and superiors.
- Motivation – Incentives, Rewards, Job satisfaction.
- Leadership
- Labour Welfare
- Worker's participation in management.

References

1. Environmental Engineering and Management by Suresh K. Dhamija, S.K. Kataria and sons, New Delhi
2. Entrepreneurship Development by CB Gupta and P. Srinivasan, Sultan chand and sons, New Delhi.
3. A Hand book of Entrepreneurship, Edited by BS Rathore and Dr. JS Saini; Aapga Publications, Panchkula (Haryana)

UNIT:4 (15 Contact hours)

(A)Ecology and environment

- Introduction
- Principles
- Human environment in ecological perspective
- Functioning of ecosystem
- Relationship of ecosystem with family environment

(B)Rural-urban household in their ecological setting

(C)Impact of household systems behavior on Natural Resource Environment and vice versa

UNIT:2 (15 Contact hours)

(A) Interaction between ecology and family

(B) Resource system and its implications for quality life

UNIT:3 (15 Contact hours)

(A) Environmental resource degradation and its impact on Family resource system

(B) Utilization techniques of household and farm waste for Sustainable development in rural families

(C) Environmental Education in India

- Role of women in Natural Resource Management
- Contribution of families in maintaining ecological balance

UNIT:4 (15 Contact hours)

(A)Pollution and environment

- Air pollution
- Water pollution
- Land pollution
- Noise pollution
- Environmental sanitation and hygiene

(B)Role of Government and private sectors Natural Resource Management

(C) National and International environmental laws

References:

- NCEPC – National Committee on environmental Planning and co-ordination, publications.
- Arlhon, S. Boughey – Readings in man the environment and human ecology Macmillan Publication co-Inc. New York
- William, R. Readings in Ecology, Energy and Human society-contemporary perspective, Harper and Row Publication.

Paper III: Gender and Development
CREDIT-4 (L-3 T-1)

UNIT:1 (15 Contact hours)

(A) Gender in context with development

Concept of gender, gender roles; changing trends, gender analysis matrix. Changing form of welfare from development and empowerment, gender w.r.t. development, National and international efforts for gender empowerment.

(B) Status of men and women in society

Demographic, education, employment, political, health (General, occupational and reproductive) in changing scenario.

UNIT:2 (15 Contact hours)

Violence Against men and Women:-

Dowry, divorce, female feticide and infanticide, domestic violence, sexual harassment and exploitation portrayal of women/men in mass media. Efforts taken for elimination of all forms of discrimination.

UNIT:3 (15 Contact hours)

Gender and Development: Policies & programmes, National policies

- Empowerment Perspective – policy perspectives, mainstreaming, a gender perspective.
- Economic empowerment – Poverty eradication, micro-credit, self-help groups, women and agriculture, women industry and support services.
- Social empowerment – Education, health, nutrition, drinking water and sanitation, housing and shelter, environment.
- Legal empowerment – Legal literacy on personal and family laws, role of family court and legal aid centres.
- Political empowerment – Role of panchayati Raj in the political empowerment of women/men.

UNIT:4 (15 Contact hours)

Support system

Role and functions of the Department of Women and Child Development, Central Social Welfare Board, State Social Welfare Board, National Commission for Women, Women's Development Corporation.

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References

1. Black M, (1993): Girls and Women, A UNICEF Development Priority, Unicef, New York.
2. Yadav, C.P. (2000). Empowerment of women. Vol. I & II, Laxmi Shikshan, Sansthan and Anmol Publications Pvt. Ltd; New Delhi.
3. Laxmi Devi (1998). Women and Development. Institute for sustainable Development and Anmol Publications Pvt. Ltd., New Delhi.
4. National Perspective plan for women (1988): Department of women and Child Development; New Delhi.
5. Sahay. S. (1998) Women and Empowerment: Approaches and Strategies. Discovery Publishing; New Delhi.

Paper IV: Financial Management

CREDIT-4 (L-3 T-1)

UNIT:4 (15 Contact hours)

Financial Management : Concept and Significance

Working of Finance and Planning Commission

National Income

Wage determination and wage differential

Inflation and deflation

UNIT:2 (15 Contact hours)

Budget :

Concept , Principles, Formulation, Enactment and Execution, Performance; Budget,

PPBS, ZBB

UNIT:3 (15 Contact hours)

Accounting :

Concept, Functions, Accounting Systems, Records, Procedures

Auditing and C and AG

UNIT:4 (15 Contact hours)

Saving and Investment :

Role of Credit in finance; Impact of LPG and Foreign Direct Investment on Trade in India

Reference

1. Lal, Jawahar, Managerial Accounting, Himalaya Publishing House, New Delhi.
2. Vij, Madhu, Financial and Management Accounting, Anmol Publications Pvt. Ltd., New Delhi, 1998.
3. Sharma, Nand K. Accountancy, Theory and Practice, Surabhi Publications, Jaipur
4. Pandey, I.M., Financial Management, Vikas Publishing House, New Delhi.
5. Bigham, Eugene F., and Houston, Joel F., Fundamentals of Financial Management, Harcourt Brace College Publishers, New York.

PRACTICALS OF SEMESTER I

Based on paper I, II III & IV

CREDIT-8 (P-8)

Practicals of paper I:

Based on the topics of paper I.

Practicals of paper II:

Based on the topics of paper II

Practicals of paper III:

- A study on men's/women's status in nearby community.
- Discuss the men's /women's problems in a community after identification.
- Listing men's/women's related issues in the community.
- Case study of any one organization running in your community.

Practicals of paper IV:

Based on the topics of paper IV.