

SCHEME & SYLLABUS

FOR

SEMESTER PATTERN

IN

M.Sc. HOME SCIENCE

FAMILY RESOURCE MANAGEMENT

RASHTRASANT TUKADOJI MAHARAJ

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NAGPUR (M.S.)

INDIA

**M.Sc. Semester Pattern in Family Resource Management (Home Science)
Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, M.S. India**

Semester-I				
Paper	Subject Code	Name of Paper	Marks	Credits
Paper-I	1RMT-1	Theory of Management-I	100	25
Paper-II	1RMT-2	Housing and Interiors-I	100	
Paper-III	1RMT-3	Hospitality Administration & Services-I	100	
Paper-IV	1RMT-4	Research Methods & Statistics-I	100	
Practicals				
Practical-I	1RMP-1	Theory of Management-I	100	
Practical-II	1RMP-2	Housing and Interiors-I	100	
Seminar-I	1RMS-1	Current Trends in Resource Management	25	
Semester-II				
Paper-I	2RMT-1	Theory of Management-II	100	25
Paper-II	2RMT-2	Housing and Interiors-II	100	
Paper-III	2RMT-3	Hospitality Administration & Services-II	100	
Paper-IV	2RMT-4	Research Methods & Statistics-II	100	
Practicals				
Practical-I	2RMP-1	Theory of Management-II	100	
Practical-II	2RMP-2	Housing and Interiors-II	100	
Seminar-I	2RMS-1	Current Trends in Resource Management	25	
Semester-III				
Paper-I	3RMT-1	Ergonomics –I	100	25
Paper-II	3RMT-2	Entrepreneurship Management-I	100	
Paper-III	3RMT-3	Residential Interior Space Design and Landscaping –I	100	
Project	3RMT-4	Project Design	125	
Practicals				
Practical-I	3RMP-1	Ergonomics –I	100	
Sessional-I	3RMS-1	Entrepreneurship Management-I	50	
Sessional-II	3RMS-2	Residential Interior Space Design and Landscaping –I	50	
Semester-IV				
Paper-I	4RMT-1	Ergonomics –II	100	25
Paper-II	4RMT-2	Entrepreneurship Management-II	100	
Paper-III	4RMT-3	Residential Interior Space Design and Landscaping –II	100	
Project	4RMT-4	Research Project	125	
Practicals				
Practical-I	4RMP-1	Ergonomics –II	100	
Sessional-I	4RMS-1	Entrepreneurship Management-II	50	
Sessional-II	4RMS-2	Residential Interior Space Design and Landscaping –II	50	
		Total	2500	100

FAMILY RESOURCE MANAGEMENT

The major objective of the specialization in Resource Management is to train students to optimize the use of resources - human and material - to achieve family/ institutional goals and improve the quality of life of the families and communities. This is achieved by synthesizing knowledge from physical, biological and social sciences and technology. This integrated and synthesized knowledge is to be applied in managing family/organizations. In the context of changing scenario in all facets of society and the socio economic and political changes, the curriculum in Resource Management address to the family and societal problems which ultimately would lead to family and community well being which is the crux of development in the national context.

The curriculum is planned to prepare students to be effective managers of the family and the community by managing the human and material resources effectively. It should also enable them to develop professional competence for jobs in the private and public sector.

The curriculum as a whole deals with the roles and interrelationship of individuals in the family and the near environment, relationship of design, changing technology and environment to standards of living and human well-being. Emphasis is laid on management of resources and of change, creative cognitive skills of analysis, problem identification and solving, technological skills in order to create and change products and machines and using them effectively, research skill in order to identify and help to broaden knowledge base and to evaluate. Besides, considerable attention is given to give enough input to students to develop communication skills, leadership skills, cooperative skills and skills in professional development in order to understand and foster continued competence and commitment.

The specific objectives of the specialization are

- To understand the significance of Resource Management in the current socio-economic context.
- To acquire professional skills in financial management and control, designing of interiors and work places and equipment, institutional management and rendering consumer services.
- To develop entrepreneurship skills and self employment potential.
- To understand the use and application of computers and information technology in interior designing, hospitality administration, research and development.
- To achieve social advancement through value education.

RESOURCE MANAGEMENT

1RMT-1

M. Sc. Semester I

Paper – I

Theory of Management-I

Marks: **Theory: 80** **Internal Assessment :- 20**
 Practical: 80 **Internal Assessment :- 20**

Objectives

- To understand the significance of management in the micro and macro level organizations.
- To know the conceptual, human and scientific aspects of management function.
- To develop the ability to evaluate the management efficiency and effectiveness in the family and other organizations.
- To enhance the understanding of the similarities among all areas of management education and research and dissemination of the professional knowledge, skills and attitude.

Contents

UNIT I

Management Discipline and Approaches to Its Study

1. Definition and concepts of contemporary management.
2. Stages of development of modern management.
3. Process theory — quantitative and behavioral approach systems and contingency approach.
4. History and development of management in India and elsewhere
 - Industrial
 - Farm and Agriculture
 - Institutional
 - Household
 - Education

UNIT 2

1. Development of resource management as a field of study.
2. Future trends.
3. Decision making:
 - Concept and definitions, process, types
 - Modes of decision making
 - Techniques and special tools for decision making: Decision tree
 - Cost benefit analysis
 - Limits of applicability to family and institutional situations

UNIT 3

Key Functions of Management

1. **Technical, human, conceptual aspects of management functions - Planning, organizing, staffing, directing, controlling and feedback.**
 - Planning: Nature and principles of planning objectives (steps and types) and quality management.
 - System approach to management
 - Definition
 - Elements
 - Types
 - Advantages and limitations of management.
 - Application in resource management

UNIT 4

1. Organizing

- Principles and processes of organizational structure, features and organizational charts.
- Departmentalization: Need, basis and importance - (1) Function (2) Product (3) Territory (4) Process (5) Customer.
 - Power of authority and staff relationship.
 - Leadership styles and direction

2. Management Control

- Management control tools.

- Development of information and communication system.
- Formal and informal channels of communication.
- Concepts of feedback and forward as controls.
- Application of controls to family and institutional environment.

PRACTICALS: 80

1RMP-1

1. Practical on Modes of Decision making and decision tree explained with the help of power point presentation.
2. Diagrammatic representation of the following
 - Management process
 - System approach to management
 - Decision making
 - Types of management

Internal Assessment :- 20

1. To submit assignment on History and development of management in India
 - Industrial
 - Farm and Agriculture
 - Institutional
 - Household
 - Education
2. To prepare power point presentation on related topic
3. To present seminar on related topic

REFERENCES

1. I Kapur, S.K. (1996): Professional Management, S.K. Publishers, New Delhi.
2. Deacon, R.E. and Firebaugh, F.M. (1975) : Home Management Context and Concept Houghton, Miffen, Boston.
3. Deacon, RE. and Firebaugh, F.M. (1981) Resource Management Principles and Applications, Allyn and Bacon, Boston.
4. Sherman A_W. et al (1988) : Managing Human Resources, South-Western Publication Co Cincinnati.

5. Iyancevich J.M. et al] (1980) : Managing for performance, Business Publications INC, Texas.
6. Dwivedi, R.S. (1981) : Dynamics of Human Behaviour of Work, Oxford and IBH, New Delhi.
7. Saiyadain, M S. (1988) : Human Resource Management, Tata McGraw Hill, New Delhi.
8. Dayal, R. (1996) : Dynamics of Human Resource Development, Mittal Publications, New Delhi.
9. Tripathi P.C., Reddy P. N. — (1991) Principles of Management TATA McGraw-Hill Publication Co. Ltd.
10. Prasad L. M. (1999) Principles and Practice of Management, Sultan Chand and Sons.
11. Gross I. H, Crandall E. W. (1967) Management for Modern Families Sterling Publishers (P) Ltd.
12. Koontz H., Weihrich H. (1998) Essentials of Management. TATA McGraw-Hill Publication Co. Ltd.

RESOURCE MANAGEMENT

1RMT-2

M. Sc. Semester I

Paper – II

Housing and Interiors-I

Marks: Theory: 80 Internal Assessment: 20

Objectives

To enable the students to:

- Recognize the role of housing for national development.
- Be aware of the housing problems in India and the measures for alleviating the problems.
- Understand and apply the principles of design in housing.
- Understand the application of anthropometrics measurements in space designing for various activities.
- Apply aesthetics and creative abilities in interiors.
- Analyze, design, and study dwellings plans of different income families.

Contents

UNIT I

History of Housing

- History of Housing
- Changes in housing needs and standards
- Housing in India as affected by trends in
 1. Establishments of households
 2. Levels of income per households
 3. Occupation
 4. Family mobility
 5. Technological development

UNIT II

Present housing condition in India

- Rural and urban
- Cost of housing
- Availability of building materials
- Quality of housing available
- Quantity of house available
- Housing management problem

UNIT III

Factors affecting housing

- Social
- Cultural
- Demographic
- Climatic etc.

Private and public housing

- Various housing schemes
- Central government programs

- Local government programs
- Industrial housing

UNIT IV

Building materials and finishes

- Basic building materials are cement, concrete, steel, iron
- Basic finishing materials are wood, glass, plastic, acrylic, ceramics, marble, granite, plaster.

Cost of housing design

- Factors influencing cost
- Estimating, costing and cost reduction techniques
- Sources of financial assistance
- Adequacy and limitations and required documentation.

PRACTICALS: 80

1RMP-1

1. Floor plan, elevation and graphics.
2. Analysis of house plan of different income groups. (Area, circulation, grouping).
3. Study of different housing designs.

Internal Assessment :- 20

1. Market survey of different building materials and finishes.
2. Study of different housing designs.

REFERENCES:

1. Ahmed Kasu: Interior Design.
2. Alexander, M.J. : Designing interior environment, Harcourt Brace Havonovich, 1972.
3. Ambedkar, V.N. and Modak, N.V. (1971): Town and country Planning and Housing Orient Longman.
4. Deshpande, R.S. (1974): Modern ideal homes for India, United Book Corporation.
5. Dongarkery, K.S.: Interior decoration in India.
6. Faulkner, S. (1979): Planning a House, Holt, Richard and Winson.
7. Faulkner, R. (1975): Inside today's home, Holt, Richard and Winson.

8. George, D. (1981): How to be your own Electrician, Science, Stall Book, Harper and Row.
9. Graham, L. (1982): Lighting your Home, Wills and Boons Ltd.
10. Harriet and Reel Goldstein: Art in everyday life.
11. Rangwala, S.C. (1974): Town planning, Charotar Book Stall, Arland.
12. Publication of Housing Board S., NBO, ISI, HUCPO etc.
13. Chudley, R. (1985): Construction Technology, Vol. 1-5.
14. Chaira, J.D. and Callendar, J.H. (1980): Time saver standard for building types, McGraw Hill, New York.
15. Agan, T.: The Rouse - Its plan and use.
16. Pranav Bhatt: Foundation of art and design.
17. N. D. Bhat: Enianeenng Drawing.
18. Cherunilam F. and Heggade, O. D.: Housing in India, Himalaya Publishing Bombay (1987).
19. Inside Outside.

RESOURCE MANAGEMENT

1RMT-3

M. Sc. Semester I

Paper III

Hospitality Administration And Services-I

Marks: Theory: 80 Internal Assessment :- 20

Objectives

To enable the students to

- Understand the organizational procedures of the front office.
- Comprehend the principle of front office operation.
- Acquire skills in personnel management.
- Develop effective communication skills and the art of dealing with people.

Contents

UNIT I

- Types of institutions offering hospitality services
- Hospitality functions
 - Role of housekeeping in hospitality industry.
 - Housekeeping in relation to commercial and welfare section.
- Management of housekeeping department
 - Layout of housekeeping department.
 - Planning, organization and communication of housekeeping activities.
 - Coordination with other departments.
 - Roles/responsibilities of personnel in the housekeeping department.

UNIT II

Introduction

- Classification of Hotels (Types)
- Major Departments in a Hotel
- Numbering of rooms and food plans
- Management structure of a Hotel
- Room rates, tariff structure and basis of charging
- Importance of the hospitality industry and its relationship to tourism

Hotel Guests

- Types of hotel guests and selection of a Hotel
- Guests and their needs
- The guest cycle
- Interaction between guests and Front Office Personnel

UNIT III

Front Office Operations

- Front office salesmanship
- Duties of front office personnel

- Qualities and attributes of front office personnel
- Basic terminology used in the front office
- Co-ordination and communication between front office and other departments

Front Office Organization

- Layout of a front office (plan)
- Planning Equipment and furniture for the front office
- Organizational structure of the front office

UNIT IV

Reservations

- Sources of hotel booking
- Modes of room reservation
- Systems of room reservation — conventional, whitney, computerized
- Recording from reservations — charts, records, disries, forms etc.
- Filing system
- Advance bookings

Internal Assessment :- 20

1. Prepare list of basic terminology used in the front office
2. Write assignments on the following topics
 - a. Guest and their needs
 - b. Hospitality industries and its relationship to tourism
 - c. Tour organizers in major cities
3. Visit to Hotel, Hospital Kitchen, Railway canteen and pantry, Industrial Canteen etc.
4. Report writing for the above visits.

REFERENCE

1. I Andrews, S (1982) Hotel Front Office Training Manual, Tata McGraw Hill.
2. Baker Sue, Bradley P. Huyton, J.: Principles of Hotel Front Office Operation Cassell, Wellington House.
3. Basis, J. R., Medlik, S. (1985):A manual of Hotel /reception,3rd edition Hunmann.

4. Dix C. (1979): Accommodation Operations Front Office, McDonalds and Evans Ltd.
5. Dukes, P.: Hotel Front Office Management and Operations, I. O. W A., W. M. C.
6. Maszom's, J. J. (1971): Front Office Operation, Bobbs.
7. Jones, C. and Paul, J. V. (1980): Accommodation Management: A system Approach, Bateford.
8. Vallen J. Jerom: Check in Check out Principles of Effective Front Office Management, Wm. C. Brown Publishers, College Division.

M.Sc. Home Science

1RMT-4

Semester I

PAPER IV

RESEARCH METHODS AND STATISTICS-I

Marks: Theory: 80

Internal Assessment: 20

Objectives

- To understand the significance 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 technique for the measurement scale and design.

Contents

UNIT I

- 1. Definition of Research and Scope of Research in Home Science.**
- 2. Anthropological and Epidemiological Research.**
- 3. Selection of research problem:** Need, Relevance and Feasibility.

UNIT II

- 1. Problem analysis -** Definition and stating hypothesis/objectives.
- 2. Literature search:** Referencing, abstracting, computer search, bibliography.
- 3. Selection of research design:** Purpose, internal and external validity.
- 4. Basic principles of research design:**

- Fundamental, applied and action, exploratory and experimental survey and case study, ex-post facto, Longitudinal and cross sectional, co - relational.

UNIT III

Sampling:

Objectives of sampling, principles, limitations of sampling, types of errors in sampling, major types of sampling, choice of sampling technique, characteristics of good sample, sample size.

Data gathering instruments:

- Primary and secondary data, schedule, questionnaire, observation and case study, scaling methods
- Validity, reliability, sensitivity and specificity of research tools.
- Importance and relevance of pilot study.

UNIT IV

1. Scientific writing as a means of communication.

- Different forms of scientific writing.
- Articles in Journals, Research notes and reports, Review articles, Monographs, Dissertations, Bibliographies

2. How to formulate outlines.

The reasons for preparing outlines

- As a guide for plan writing.
- As a skeleton for the manuscript. Kinds of outline
 - Topic outlines.
 - Conceptual outlines.
 - Sentence outlines.
 - Combination of topic and sentence outlines.

3. Drafting Titles, Subtitles, 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 stab, Stab column, Column Head, Spanner Head Box Head.
- Appendices: use and guidelines.

REFERENCES:

1. Best J. W. (1983) : Research Education, Prentice Hall, New Delhi..
2. Dody, J. T. (1967): An Introduction To Social Research, Appleton Center.
3. Philips, B.S.(1977): Social Research Strategy And Tactics, Mae Millan.
4. Devdas R.P. (197 1): Jamdnppi Of Research Methodology, Shri Ramakrishna Mission Vidyayala.
5. Young, P.V. And Schmid, C.F. (1968) : Scientific Social Survey And Research, Prentice Hall, New Delhi.
6. Shukla, M.C. And Gulshan S.S. (1970): Statistics Theory And Practice, S. Chand New Delhi.
7. Gupta S.P. (1970): Statistical Methods, S. Chand Company, New Delhi.
8. Garrett, H. : Statistics In Education And Psychology.
9. Sinha S.L. L Statistics In Psychology And Education, Anmol Publications Pvt. Ltd., New Delhi.
10. Daryab Singh Principles of Statistics, Atlantic Publishers & Distributors.
11. Bernard Ostle Statistics in Research.
12. M.H.Gopal : Introduction to Research Methodology for Social Sciences.
13. C.R. Kothari : Research Methodology (Methods & Techniques)
14. Fredrick, Lamson, Whitney: The Elements of Research.
15. Good, Carter, Scales and Douglas: Methods of Research.

M.Sc. Home Science

1RMS-3

Semester I

Sessional

CURRENT TRENDS AND ISSUES IN RESOURCE MANAGEMENT

Internal Assessment: 25

Objectives

Study current trends and issues and researches in resource management by current reading, surveys, brain storming, group discussion, debate and do the presentations on various assigned topics.

RESOURCE MANAGEMENT

2RMT-1

M. Sc. Semester II

Paper – I

Theory of Management-II

Marks: **Theory: 80** **Internal Assessment :- 20**
 Practical: 80 **Internal Assessment :- 20**

Objectives

- To understand the significance of management in the micro and macro level organizations.
- To know the conceptual, human and scientific aspects of management function.
- To develop the ability to evaluate the management efficiency and effectiveness in the family and other organizations.
- To enhance the understanding of the similarities among all areas of management education and research, and dissemination of the professional knowledge, skills and attitude.

Contents

UNIT I:

- **Management of material goods**
 - Complexity of managing materials.
 - Planning, controlling and evaluating material goods.
- **Management abilities**
 - Conceptual
 - Human
 - Technical

UNIT II:

1. Resource management

- Energy management.
Physical energy - energy demands and stages of family life cycle.
Fatigue – types
Planning, controlling and evaluating energy.
- Natural energy.
Conventional and non-conventional energy.

UNIT III:

1. Time management (G.C.& K) g & C.P.M. Pert.

- Time as resource - Vitaly important dimension of human life, human effectiveness and time management (e.g. gentle assertiveness).
 - Culture and times.
 - Use of time and family management.
 - Time variation and biorhythms.
 - Time planning and scheduling of work (prioritization of time to avoid wastages and distractions).
 - IT support and family communication in relation to time management

2. Work simplification.

- History of Work Simplification.
- Techniques of time and motion studies.
- Mundel's classes change.
- Body mechanics.

UNIT IV:

1. Stress Management

- Stress — meaning and significance.
- Manifestation of stress — psychosomatic disorders.
- Intrapsychic stress.

2. Health Management

- Measures adopted to overcome stress.
 - Physical
 - Mental
 - Psychological
 - Social
 - Holistic health aspect

PRACTICALS : 80 Marks

1. Practical's related to energy management by using equipments for various activities e.g. long handled, short handled, mopes, brushes etc. in standing and sitting posture
2. To find out maximum and comfortable reaching heights of group of students.
3. To simplify daily household activities.
 - Pathway Chart
 - Flow Process Chart
 - Operation Chart
4. To determine working heights for different household activities.

Internal Assessment :- 20 marks

1. Seminar and power point presentation on the following topics
 - Time planning and scheduling of work:
 - a. Working women
 - b. Business women
 - c. Women entrepreneur
 - d. Other employment including shift duties
2. Study on Psydosomatic disorders due to stress
3. Assignment on stress management studies conducted in India
4. Power point presentation on measures adopted to overcome stress

REFERENCES

1. I Kapur, S.K. (1996) : Professional Management, S.K. Publishers, New Delhi.
2. Deacon, R.E. and Firebaugh, F.M. (1975) : Home Management Context and Concept Houghton, Miffen, Boston.
3. Deacon, RE. and Firebaugh, F.M. (1981) Resource Management Principles and Applications, Allyn and Bacon, Boston.
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7. Saiyadain, M S. (1988) : Human Resource Management, Tata McGraw Hill, New Delhi.
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12. Koontz H., Weihrich H. (1998) Essentials of Management. TATA McGraw-Hill Publication Co. Ltd.

RESOURCE MANAGEMENT

2RMT-2

M. Sc. Semester II

Paper – II

Housing And Interiors-II

Marks:

Theory: 80

Internal: 20

Objectives

To enable the students to:

- Recognize the role of housing for national development.
- Be aware of the housing problems in India and the measures for alleviating the problems.
- Understand and apply the principles of design in housing.
- Understand the application of anthropometrics measurements in space designing for various activities.
- Apply aesthetics and creative abilities in interiors.
- Analyze, design, and study dwellings plans of different income families.

Contents

UNIT I

1. Approaches to housing
2. Housing an element in the socio-economic development.
3. Private and public housing
4. Various housing schemes : central and local government programs, industrial housing.
5. Housing standards and housing legislation.
6. Building codes and byelaws.
7. Rent control act, Technical aspects of house design with reference to principles of planning.

UNIT II

Analysis of housing design

- Study of house plan
- Definition, types and principles of planning
- Grouping of activities and circulation
- Layout of furniture

UNIT III

Anthropometric data

- Its application to furniture design (living room-sofa; dining table chair; bed room-wardrobe and beds).
- Elbow room and clearance space
- Circulation space in rooms and corridors
- Working heights while standing and sitting
- Bodily attitudes and psychological effects of space.

UNIT IV

Essential services

- Different types of services

- Plumbing
- Water supply, drainage
- Electricity and telephone etc.
- Housing research
- Agencies for research and development
- Methods and techniques

Practical: 80

1. Application of furniture arrangement and color scheme.
2. Study of anthropometric measurement and spaces.
3. Layout of plumbing and electric supply.

Internal Assesment :- 20

1. Visits to Private and Public housing.

REFERENCES:

1. Ahmed Kasu: Interior Design.
2. Alexander, M.J. : Designing interior environment, Harcourt Brace Havonovich, 1972.
3. Ambedkar, V.N. and Modak, N.V. (1971): Town and country Planning and Housing Orient Longman.
4. Deshpande, R.S. (1974): Modern ideal homes for India, United Book Corporation.
5. Dongarkery, K.S.: Interior decoration in India.
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7. Faulkner, R. (1975): Inside todays home, Holt, Richard and Winson.
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12. Publication of Housing Board S., NBO, ISI, HUCPO etc.

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17. N. D. Bhat: Enianeenng Drawing.
18. Cherunilam F. and Heggade, O. D.: Housing in India, Himalaya Publishing Bombay (1987).
19. Inside Outside.

RESOURCE MANAGEMENT

2RMT-3

M. Sc. Semester II

Paper III

Hospitality Administration And Services-II

Marks: Theory: 80 Internal Assessment :- 20

Objectives

To enable the students to

- Understand the organizational procedures of the front office.
- Comprehend the principle of front office operation.
- Acquire skills in personnel management.
- Develop effective communication skills and the art of dealing with people.

Contents

UNIT I

Reception

- Expected arrival and departure list
- Contractual terms between hotel and guest
- VIP procedure
- Functions of all room rack and mail rack
- Change of guest room
- Key handling and control

- Room status report, occupancy percentage
- Preparing room report, night clerks report

UNIT II

Information

- About the hotel and city
- Postal regulations
- Transportation, travel agents, package tours
- Shopping centers, monuments
- Local festivals
- Rules and regulations regarding foreign currency

UNIT III

Administrative Policies

- Personnel management Recruitment training, handling personnel promotion, evaluation, distribution of jobs, job schedules, job analysis.
- Procurement policies, buying techniques, stores, stock control.
- Cost control: inventory management, budget process, controlling expenses.
- Safety, security and sanitation: safety, fire fighting, first aid safety in equipment use, pest control, sanitation standard.
- Uniforms, type's selection, distribution and control.

Hostess training

Banquet management

UNIT IV

Energy and water management: Power requirements, flushing system, water control taps, waste water circulation.

Communication system: Public address system, intercom system, music and television.

Maintenance: Repairs and redecoration programmes.

Internal Assessment :- 20

1. Upkeep and cleaning of cutlery, crockery, other equipments
2. Visit to different travel agencies.
3. Field visit to different hotels
4. Report writing for above visits.

REFERENCES:

1. I Andrews, S (1982) Hotel Front Office Training Manual, Tata McGraw Hill.
2. Baker Sue, Bradley P. Huyton, J.: Principles of Hotel Front Office Operation Cassell, Wellington House.
3. Basis, J. R., Medlik, S. (1985): A manual of Hotel /reception, 3rd edition Hunmann.
4. Dix C. (1979): Accommodation Operations Front Office, McDonalds and Evans Ltd.
5. Dukes, P.: Hotel Front Office Management and Operations, I. O. W A., W. M. C.
6. Maszom's, J. J. (1971): Front Office Operation, Bobbs.
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8. Vallen J. Jerom: Check in Check out Principles of Effective Front Office Management, Wm. C. Brown Publishers, College Division.

M.Sc. Home Science

2RMT-4

Semester II

PAPER – IV

RESEARCH METHODS AND STATISTICS-II

Marks: Theory: 80

Internal Assessment: 20

Objectives

- To understand the significance 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 technique for the measurement scale and design.

Contents

UNIT I

1. Meaning and Scope of Statistics in Home Science:

- Concept of statistics.
 - Scope of statistics.
2. **Descriptive statistics:** Classification, tabulation, frequency distribution, diagrammatic and graphic representation of data.
 3. **Measure of central tendencies:** Mean, Median, Mode.
 4. **Concept of deviations:** Range, Quartile deviation, Mean deviation, Standard deviation.
 5. **Concept of normal distribution curve and probability:** use of normal distribution curve, skewness and kurtosis.

UNIT II

Elements of testing a Hypothesis:

- Concept of null hypothesis.
- Meaning of level of significance. Type I and Type II errors.
- Students 't' test for small samples for testing differences in proportion for means and differences in means.
- Large sample test (C.R. test) for testing significance of difference between mean of two groups.
- Analysis of variance (one way ANOVA, two way ANOVA).
- Correlation coefficient, Product moment method, rank difference method for small samples and scattered diagram method for large sample.
- Regression analysis and prediction: Simple and multiple regression.

UNIT III

Non parametric tests for testing null hypothesis:

- Application of Chi square test on :
 - Equal probability type

- Normal distribution type
- 2 x 2 contingency tables type
- χ^2 test of independence.
- Participatory rapid assessment.
- Participatory learning assessment.

UNIT IV

1. The writing process

- Getting started.
- Use out line as a starting device
- Drafting
- Reflecting, Re-reading – Checking organization, Checking headings, Checking content, Checking clarity, Checking Grammar.

2. Parts of Dissertation/ Research Report/article

- Abstract
- Introduction
- Review of Literature
- Materials and Methods
- Results and Discussion
- Summary and Conclusion
- Bibliography
- Recommendation

3. Computer Applications in Data analysis

- Use of MS-Office for Research, MS Word, MS Excel, MS Power Point
- Graphic representation
- Use of SPSS for data Analysis

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10. Daryab Singh Principles of Statistics, Atlantic Publishers & Distributors.
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12. M.H.Gopal : Introduction to Research Methodology for Social Sciences.
13. C.R. Kothari : Research Methodology (Methods & Techniques)
14. Fredrick, Lamson, Whitney: The Elements of Research.
15. Good, Carter, Scales and Douglas: Methods of Research.

M.Sc. Home Science

2RMS-3

Semester II

Sessional

CURRENT TRENDS AND ISSUES IN RM

Internal Assessment: 25

Objectives

Study current trends and issues and researches in resource management by current reading, surveys, brain storming, group discussion, debate and do the presentations on various assigned topics.

M. Sc. Semester III

Paper I

Ergonomics-I

Marks:	Theory: 80	Internal Assessment :- 20
	Practical: 80	Internal Assessment :- 20

Objectives

- To become aware of the roll of ergonomics in work effectiveness and efficiency
- To understand the environmental factors contributing to productivity, safety, control and well-being of individual performing the work.

Contents

UNIT I

Ergonomics

1. Scope of ergonomics in home and other occupations
2. Nature of work in household and other occupations
3. Interdisciplinary and applied nature of ergonomics as a field of study
4. Man-machine - Environmental system

UNIT II

Physiological Aspects of Work

- Nerve muscle physiology
 1. Types, structure and function of muscles.
 2. Neuromuscular system, nave impulse transmission mechanism and types of muscular contraction and energy requirement.
 3. Reciprocal action of flexor and extensors, static and dynamic effort.
 4. Cardiovascular circulation on general and emphasis co muscle circulation

- Sources of energy
 1. Fats, proteins. carbohydrate metabolism
 2. SDA - Specific Dynamic Action of food

UNIT III

- Energy management and factors affecting muscular activity
 1. Energy expenditure for different activities and energy balance
 2. Aerobic and anaerobic work - (maximum aerobic power and factors affecting VO_2 – max_1 , oxygen debt)
 3. Muscular strength-endurance and energy consumption
 4. Efficiency, work load and physiological fatigue
 5. Heart rate (Pulse rate) as measure of body stress, for classification based on physical parameters, time motion studies - principles of motion economy.

UNIT IV

Anthropometry And Biomechanics

- Definition of Anthropometry
- Measurements of body dimensions
- Static and dynamic anthropometry.
- Work space and work station design for standing and sitting operations.
 - Identification and analysis of posture.
 - Effect of wrong postures on cardiovascular and musculoskeletal system - different types of musculoskeletal disorders
 - Correct techniques of lifting and carrying weight, work load and postures.

PRACTICAL: 80

3RMP-1

Internal Assessment :- 20

1. Use of instruments employed in ergonomics research

- Treadmill, step-stool,.
- Heart rate monitor. Oxylog, ECG. Lung function test
- Noise level meter, thermal, environmental kit, illuminometer

- Skin thermometer
- Midget impinge
- Sphygmomanometer
- Height and weight measuring instruments
- Heart rate and oxygen consumption
- Stop watch

2. Determination of workload using heart rate and oxygen consumption

1. Treadmill
2. Bicycle Ergometer
3. Step stool

3. Determination of workload of some selected household activities by using

1. Pulse rate techniques
2. Time and motion study
3. Psychological cost
4. Energy cost
5. Cardiac cost
6. Temporal Cost

4. Assignments on above topic

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27. Norris, B. and Wilson J. R. (2001): Designing Safety into products, Taylor an Francis, London
28. Wilson, J. R. and Covlett, N. (2001): Evaluation of Human Work. A Practical Ergonomics Methodology, Taylor and Francis, London

- Government policies and schemes for enterprise development
- Institutional support in enterprise development and management

UNIT II

The Entrepreneur

- Entrepreneurial motivation – dynamics of motivation
- Entrepreneurial Competency – Concepts
- Developing entrepreneurial competencies - requirement and understanding the process of entrepreneurship development, self awareness, interpersonal skills, creativity, assertiveness, achievement, factors affecting entrepreneurs role.

UNIT III

Launching and organizing an enterprise

1. Environment scanning – information sources, schemes of assistance, problems
2. Enterprise selection market assessment, enterprise feasibility study, SWOT analysis
3. Resource mobilization – finance, technology raw material, site and manpower
4. Costing and marketing management and quality control
5. Feedback, monitoring and evaluation

Growth Strategies

1. Performance appraisal and assessment
2. Profitability and control measures, demands and challenges
3. Need for diversification
4. Future growth - technique of expansion, and diversification, vision strategies

UNIT IV

Enterprise Networking

1. Concept and dynamics
2. Methods
3. Joint venture, co-ordination and feasibility study

Financial Planning and Implementation

- Budgeting – allocation of resources, identifying aspirations, expectations and goals, objectives, disadvantage of budgeting, control in the context of changing economic conditions.
- Purchase, storage, cost reduction.
- Planning a budget for a
 - Family of a fixed income
 - Restaurant/hostel, any selected organization
 - Boutique
 - Small industry

3RMS-1

SESSIONAL : 50 marks

1. To prepare list of entrepreneurial opportunities in resource management
2. List entrepreneurs , list from various enterprises in your city
3. Select of enterprise, do SWOT analysis and suggest strategies for action
4. Visit to enterprise(any one) and report

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RESOURCE MANAGEMENT

3RMT-3

M. Sc. Semester III

Paper – III

Residential Interior Space Design and Landscaping-I

Marks: **Theory: 80** **Internal Assessment: 20**

Sessional: 50

Objectives

- Gains knowledge of planning principles for designing residential interior spaces.
- Knows application of ergonomic considerations in designing residential interior spaces.
- Learns interior designing for special population (senior citizens, physically challenged and children)
- To Study and to understand the landscape designing and its appropriate application.
- To get familiar with the various materials related to landscaping

Contents

Unit I

Introduction to designing residential interior spaces

- Purpose of designing residential interior spaces
- Considerations for designing residential interior spaces
 - Big and small
- Criteria for planning a house
 - Orientation
 - Grouping of rooms
 - Circulation between and within the rooms
 - Flexibilities
 - Privacy
 - Roominess
 - Light and ventilation
 - Services
 - Aesthetics
 - Cost

UNIT II

- Structural Systems
- Factors contributing to selection of furniture and furnishing
 - Climate, needs and preferences, availability of materials, cost etc.

UNIT III

- Introduction and definition of landscaping from interior space design point of view
- Objective of landscape gardening
 - Functionalism
 - Esthetic
- Division according to use
 - For ground area
 - (i) The side Walk
 - (ii) The drive way
 - Private area or living area

- (i) Poarches
- (ii) Terrace or Patio
- (iii) Pool
- (iv) Play space for children
- Service area or utility area
 - (i) Garage
 - (ii) Vegetable garden
 - (iii) The drying area
 - (iv) Space for keeping garden foods
 - (v) Space for dumping garbage.

UNIT IV

- Principles of landscape planning.
- Location and Orientation.
- Soil – types
- Climatic condition

SESSIONAL: 50 marks

1. Visit to various shop of
 - a) Light
 - b) Lighting fixtures
 - c) Furniture items
2. Visit to kitchen of
 - a) Higher income group independent bungalow
 - b) Flat
 - c) Duplex bungalows
 - d) Row Houses
3. Report on the Above visit

3RMS-2

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RESOURCE MANAGEMENT

3RMPD-1

M. Sc. Semester III

Project Design

Marks: Internal Assessment: 125

Note :- See the Guidelines in Appendix B in the Directions.

RESOURCE MANAGEMENT

4RMT-1

M. Sc. Semester IV

Paper I

Ergonomics-II

Marks:	Theory: 80	Internal Assessment: 20
	Practical: 80	Internal Assessment: 20

Objectives

- To become aware of the roll of ergonomics in work effectiveness and efficiency.
- To understand the environmental factors contributing to productivity, safety, control and well-being of individual performing the work.

Contents

UNIT I

1. Design application of anthropometry
2. Principles of motion economy
3. Work centers
4. Equipments and tools

UNIT II

Environment

1. Physical
2. Heat
3. Thermal regulation of the body at rest and during work
4. Thermal balance
5. Factors responsible for exchange of heat between body and surrounding environment.
6. Heat stress
7. Thermal comfort.
8. Auditory
 - Mechanism of hearing
 - Assessment of noise
 - Vibration and its effects on human body

UNIT III

1. Visual
 - Structure and functions of eye
 - Qualitative and quantitative aspect of lighting
 - Effect of background and fore ground
 - Glare
 - Psychological effect of color
2. Atmospheric pollution hazards
 - Air borne
 - Water borne
 - Radiation

UNIT IV

Engineering Psychology

1. Man-machine system
2. Behavioral and motivational factors
3. Ergonomic consideration for the physically challenged

PRACTICAL: 80

4RMP-1

Internal Assessment: 20

1. **Postures**

Identifying the types of postures assumed by women during work, analysis and Interpretation of risks.
2. **Determination of jobs, stress and work by survey of a few selected families.**
3. **Assessment of heat Stress and interpretation of results**

Outdoor, indoor, kitchen
4. **Measurement of noise using noise level meter for various situation in home, office, traffic situation.**
5. **Determination of some selected body dimensions using anthropometry kit, statistical analysis of the data and interpretation of findings.**
6. **Determining the relationship of anthropometric dimensions of workers with space requirements for some selected activities e.g. cooking, chopping, and grinding on platform.**

ASSIGNMENT OR PROJECT

- Posture analysis
- Combination of Psycho-physiological activities and physiological stress

Tools and Equipments

1. Development of Anthropometric board. (Graph Calibrations)
 - Length 4 (Meters)
 - Breadth 2 (Meters)
 - Height 2 (Meters)
2. Footboard for foot measurements.
3. Anthropometric ring set or finger board.
4. Anthropometric stool with ten planks of 10 mm thickness. { For measuring dimensions in sitting conditions).
5. Goniometry for measuring joint angles.
6. Flexicurve for measuring spinal chord curvature.
7. Report on above topic

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1. Roebuck, J. A.; Kroemer, K.H.E. and Thomson, W. G. (1975): Engineering Anthropometric Methods. Wiley-Interscience Publication, New York.
2. Galer, I. A. R. (1987): Applied Ergonomics Handbook, (c) Butterworth & Co
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30. Jordan Pat (1998): Human Factors in Product Design, Current Practice and Future Trends, Taylor and Francis, London
31. Wogalter, M. Dejoy, D. and Laugherty, K. (2001): Warnings and Risk Communications, Taylor and Francis, London

4. Advertising claims
5. Evaluating advertising effectiveness
6. Advertising legislations
7. Ethics and self regulation

UNIT III

Evaluating and controlling market performance

1. Sales analysis
2. Market share and financial analysis
3. Customer satisfaction index
4. Impact of technology on marketing
5. Global marketing

UNIT IV

Consumer Protection

- Consumer apathy the important cause for quality information and services
- Legal aid by legislation
 - Food And Drug Adulteration Act
 - Monopoly Restrictive Trade Practices Act (MRPT)
 - Public Distribution Systems
- Role of standardization and labeling
- Consumer action consumer movement in India, consumer education and consumer forum

SESSIONAL: 50 marks

4RMS-1

1. Visit to Consumer Forum, EGMARK
2. To prepare proposal for launching of an enterprise
3. Visit to public distribution system in your city and report on the visit
4. Assignment on women entrepreneurship

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18. Paul Authony - *Garden Design*, Collins, Illinois.
19. Sunset books (1982) *How to build walks, Walls, and patis fillor*, Lane Publishing Co. California
20. Bazin Germain (1999) *Paradisos -The Art of Garden Artillery House*. London.

- Garden Furniture
 - Importance, Use, Types and selection.
- General Introduction to garden equipments Types and use.
- System of irrigation drainage - Type Surface drainage.
 - Under ground drainage.
- Understanding of various materials for paving walk way etc. (stone masonry. Brick Masonry)
- Pargolas, Green house.
- Indoor and outdoor plants.
- Kitchen Garden.

SESSIONAL: 50 marks

4RMS-2

1. Interior design layout of small (60/80 Square meter) residential interior space
2. Survey and selection of material for landscape design
3. Designing layout of front garden and lawn. Prepare list of garden furniture
4. Visit to garden equipment shop
5. Designing layout of garden path
6. List of plants for garden and landscaping
7. Market survey and report of paving walkway

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1. Alexander, N.S. and Mercourt, B. (1972): Designing Interior Environment, Havanovich Inc.
2. Ball V.K.: The Art of Interior Design; The Macmilan and Co., New York.
3. Chudley, R. (1978): Construction Technology; Vol. 1 to 4, ELBS and Longman Group Ltd.
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- 9 Design 09, Residential Space III, Juzhu Kongjan
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RESOURCE MANAGEMENT

4RMPR-1

M. Sc. Semester IV

Research Project (Viva-voce)

Marks: External Assessment: 125

Note :- See the Guidelines in Appendix B in the Directions.