

M.Sc. (Home Sc.)  
Exam.

Prospectus No. 10194

संत गाडगे बाबा अमरावती विद्यापीठ

SANT GADGE BABA AMRAVATI UNIVERSITY

(FACULTY OF HOME SCIENCE)

PROSPECTUS

OF

M.Sc. (Home Sc.) Family Resource Management  
Part-I and Part-II Examination of 2010



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**SYLLABUS  
FOR  
M.SC.(HOME SCIENCE) PART-I EXAMINATION  
(FAMILY RESOURCE MANAGEMENT)  
(EFFECTIVE FROM THE SESSION-2003-2004)**

**1FRM1                      THEORY OF MANAGEMENT**

Theory : 4 Hrs/wk

Theory : 75 Marks

Practical : 4 Hrs /wk

Practical : 50 Marks

**Objectives :**

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

**Contents :**

**UNIT-I : 1. History and Development of Management in India and elsewhere.**

- i) Industrial
- ii) Farm and agricultural
- iii) Institutional
- iv) Household
- v) Education

**2. Management as a system.**

- i) Definitions
- ii) Elements
- iii) Types
- iv) Advantages and limitations of systems approach.
- v) Application in Family Resource Management.

**UNIT-II : 1. Management as a disciplines.**

- i) Management as Science
- ii) Interdisciplinary nature of management
- iii) Stages of development
  - a) Classical Organisation Theory
  - b) Behavioural theory
  - c) Quantitative theory

- d) Systems and Contingency theory
- e) Relevance to family resource management.

**INIT-III : 1. Management Abilities. :**

- i) Conceptual
- ii) Human
- iii) Technical

**2. Decision Making :**

- i) Meaning
- ii) Types of decisions
- iii) Modes of decision making
- iv) Techniques and tools for decision making : Decision tree
- v) Cost benefit analysis.

**UNIT-IV : 1. Management Functions and Processes**

- i) Planning-Objectives, principles, policies, strategies.
- ii) Organising-Purpose, principles, processes delegation authority, responsibility & accountability.
- iii) Staffing, purpose, principle, recruitment, appraisal.
- iv) Guiding, directing, leadership, motivation, communication.
- iv) Controlling, tools for management control, feedback.
- v) Appraisal/evaluation – Tools and techniques.

**2. Human Behaviors in Organisations :**

- i) Personality, attitudes, motivating factors.
- ii) Group behaviour and dynamics
- iii) Stress and Conflict Management.
- iv) Disaster Management

**UNIT-V : 1. Role of residence Advisor / Supervisor.**

- i) Ability to manage independently – resource allocation and management.
- ii) Duties of good supervisor.
- iii) Monitor the use of financial resources and establish norms for expenses for various categories of expenditure.
- iv) Acquire the skill for counseling, negotiating and guiding students.

**2. Meaning of Evaluation :**

- i) Difference between measurement and evaluation.

- ii) Appraisal system and competencies required for evaluation.

**Practical and Sessional :-**

1] Stay at Residence House for one week	-	25 Marks
2] Management of an event : Individual activity and group activity.	}	- 25 Marks
3] Report on disaster management.		
4] Techniques of stress Management.		
Total		50 Marks

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**1FRM2 HOUSING FOR FAMILY LIVING**

Theory : 4 Hrs/wk

Practical : 4 Hrs /wk

Theory : 75 Marks

Practical : 25 Marks

Sessional : 25 Marks

**Objectives : To enable students to :**

- 1] Recognise the role of housing for national development
- 2] Be aware of the housing problems in India and the measures for alleviating the problems.
- 3] Understand and apply the principles of design in housing.
- 4] Understand the factors influencing space design organization for optimum comfort and functionalism.
- 5] Evaluate ergonomically residential interior space for various activities.
- 6] Provide adequate facility for work, relaxation, rest, comfort, privacy, care, aesthetics etc., through interior space designing.
- 7] Develop skills of drawing the working details and execution drawings.

**Contents :**

**UNIT-I : 1. History of Housing**

Changes in housing needs and standards

**2. Housing in India as affected by trends in**

- i) Population
- ii) Establishment of Households.
- iii) Levels of income per households.
- iv) Occupation
- v) Family mobility
- vi) Technological development.

**3. Present Housing condition in India.**

- i) Rural and Urban.
- ii) Cost of Housing.
- iii) Ability of building material.
- iv) Quality of Housing available.
- v) Quantity of Housing available.
- vi) Housing management problem.

**UNIT-II : 1. Factors affecting housing**

Social, cultural, demographic, climatic etc.

**2. Housing Standards**

Housing legislations, need for standards, Role of Indian standards, Building codes, floor space index (F.S.I.) Technical aspects of House design with reference to light, ventilation etc., and awareness as regard the points to be

considered while building and buying the house or apartments.

### 3. Costing of Housing :

Estimating and Costing in relation to land price. The appropriateness of market rate of ready houses on ownership and co-operative housing society basis.

#### UNIT-III : 1. Analysis of Housing Design

- i) Analysis of Plans.
- ii) Materials and Construction Techniques.
- iii) Study of the Different Housing designs.

#### 2. Essential Services.

Types of Services.

Water Supply, drainage, electricity, telephone etc.

#### 3. Housing Finance :

Estimating cost of construction factors that influence the cost, cost reduction techniques. Sources of financial assistance, its adequacy and limitations etc.

Principles of Interior design.

#### UNIT-IV : 1. Factors to be considered while designing interior spaces.

- i) Orientation.
- ii) Grouping of user's area.
- iii) Circulation between and within user's area.
- iv) Light and Ventilation
- v) Flexibility
- vi) Privacy
- vii) Roominess (Spaciousness)
- viii) Services
- ix) Aesthetics
- x) Cost.

#### 2. Application of appropriate materials for various uses.

#### 3. Study of Various types of fixtures and fittings used in interiors, their uses, selection and care.

- i) Use of timber for different purposes with their joints.
- ii) Types of floor.
- iii) Various ways of operating shutters.
- iv) methods of paneling and cladding to walls.
- v) False ceilings – different types in various materials.

vi) Mezzanine and lofts.

vii) Kitchen platform.

#### UNIT-V : 1. Consideration of ergonomics in interior design.

- i) Importance of ergonomics in interior design.
- ii) Work, worker and working environment relationship.
- iii) Kitchen and storage as most important work area.
- iv) Ergonomical evaluation for health and safety of user in residential space design.
- v) Study of different body postures used in different activities and its relation to fatigue.

#### Practical :

- 1] Floor Plan evaluation.
- 2] Drawing House plan for various income groups.
- 3] Colour Schemes.
- 4] Celebration of Shelter day, Environmental day.

#### Sessional :

- 1) Interior Design Scheme
- 2) Model making of interior scheme.
- 3) Collection (Album) of different Building materials.
- 4) Survey of Urban and rural housing conditions. Building materials and technology.

#### References :

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### **IFRM3 CONSUMER IN THE MARKET**

Theory : 4 Hrs/wk

Practical : 2 Hrs /wk

Theory : 75 Marks

Practical and : 50 Marks  
 Sessional

#### **Objectives :**

- 1] To equip and impart knowledge on consumer related facts and issues.
- 2] To provide an understanding of the significance of consumer information.
- 3] To develop and acquire the skills in consumerism and utilizing the provisions in redressal mechanism.

#### **Contents :**

#### **UNIT-I : 1. Consumer in the Indian Economic Environment.**

- i) Definition of a consumer.
- ii) Characteristics of consumers.
- iii) Role of consumers in the economy.

#### **2. Consumer behaviour.**

- i) Understanding consumers and their wants.
- ii) Determinants of consumer behaviour – Opinion, leadership, group influence, social class and culture : consumer dissatisfaction.
- iii) Market strategies influencing consumer behaviour.
- iv) Guidelines for wise purchasing practices.

#### **UNIT-II : 1. Consumer decision making process**

- i) Types of consumer decisions - habitual, limited and extended, short and long term. Process of decision making, factors determining and influencing consumer behavior, perception, learning, memory, motivation, personality attitude.
- ii) External, cultural, demographic, environmental, product positioning.
- iii) Guides for wise buying practices.

#### **2. Consumer movement**

- i) Origin and growth.
- ii) Philosophy, objectives.

- iii) Consumer movement in developed countries and global experience – a brief overview.
- iv) Indian experience, reasons for slack in consumer movement. Future of consumer movement in India.

#### **UNIT-III : 1. Consumer Protection and Empowerment of Consumer.**

- i) Legal problems in buying and paying for goods and services.
- ii) Consumer representation – govt. Agencies, consumer organizations, legal cells in industries, public interest legislation.
- iii) Quality control and standardization – national and global.

#### **2. Consumer Information**

- i) Need and Significance.
- ii) Sources
- iii) Consumer Services – Public and Private – Merits and limitations.
- iv) Institutional support – Corporate accountability, Government policies and responsibilities.
- v) Do's and Don't's towards better consumerism.
- vi) Causes of exploration.
- vii) Consumer problems and their solutions.

#### **UNIT-IV : 1. Markets and Marketing.**

- i) Basic concepts of Markets and Marketing.
- ii) Classifications and functions of markets
- iii) Types of markets – wholesale, retail, special, local, residential and tele markets, national, global etc.
- iv) Changing nature of the business world i.e. e-business and e-commerce.
- v) Marketing environment, marketing theories, models.
- vi) Marketing strategies-concept and types based on product, seller, demand, media, mix, price, promotion and policy.

#### **UNIT-V : 1. Advertising and sales promotion :**

- i) Advertising objectives, functions, benefits
- ii) Advertising budget and costs of sales promotion
- iii) Types of advertising
- iv) Advertising claims

- v) Evaluating of advertising effectiveness
- vi) Advertising legislation
- vii) Ethics and self-regulation.

**Practical and Sessional :**

- 1] Case Study about consumer problem.
- 2] Visit to consumer forum
- 3] Study of labels of consumer goods for safety, instructions for care and maintenance, quality marks etc.
- 4] Celebration of consumer day.
- 5] Celebration of national saving day.

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**1FRM3**

**CONSUMER SAFETY - TESTING**

Theory : 4 Hrs/wk

Theory : 75 Marks

Practical : 2 Hrs /wk

Practical and : 50 Marks

Sessional

**Objectives :**

- 1] To sensitise the students about consumer safety / hud for consumer education.
- 2] To gain experience in conducting consumer research and product testing.
- 3] To understand and apply the techniques of analysing consumer goods for product safety and performance.

**Contents :**

**UNIT-I : Products and Services available to the consumers.**

- i) Products – Types, design requirements, quality requirements, performance appraisals; after sale services.
- ii) Services – types, qualitative assessment techniques.
- iii) Consumer safety, hazards and liabilities with reference to all consumer goods and services
- iv) Warrantees, guarantees and sales contracts.
- v) Consumer, research and product safety, environmental effects.

**UNIT-II : 1. Quality control and standardisation for :**

- i) Food
- ii) Textiles
- iii) Consumer durable
- iv) Building materials.

**2. Food Testing :**

- i) Sensory evaluation
- ii) Qualitative tests to detect common adulterations in milk and milk products, fats and oils, spices and condiments, tea, coffee etc.

**3. Textile testing :**

- i) Fibre identification.
- ii) Tests for serviceability, wear and abrasion; colour fastness, fabric dimensions and fiber contents.

**UNIT-III : 1. Equipment Testing :**

- i) Testing of Electrical appliances.

- ii) Testing of consumer items - comparative study of various brands for performance fuel efficiency and end products.

**2. Study of base materials used in consumer goods - characteristics, toxic effects of some metals and finishes.**

**3. Drugs and Medicines :**

- i) Drug control act - Provisions and applications.  
 ii) Precautions to be observed during purchase, use and storage.  
 iii) Toxic and side effects of some commonly used drugs.

**UNIT-IV : 1. Consumer Education :**

- i) Brief History  
 ii) Definition, concept and significance/need.  
 iii) Objectives.  
 iv) Approach to consumer education - Economic, environmental, socio-cultural, health & safety and legal.

**2. Action line for Consumer Education :**

- i) Action plan - knowing situation, formulating plan of action, implementing, evaluation and follow-up.  
 ii) methods for imparting education - Role-plays and games, project testing and evaluation.  
 iii) Contents - Resource management, decision-making, sound purchasing habits, learning skills, conservation and protection of environment.  
 iv) Resources- Media - Written, audio and visual. Market place, government agencies, consumer organisations.  
 v) Problems faced and remedial measure.

**UNIT-V : Setting up a consumer organisation :**

- i) Significance, purpose, types of organisations.  
 ii) Organizational set up - Objectives, membership, emblem/Logo, basic requirements and registration.  
 iii) Suggestions for making the organisation able and effective.  
 iv) Co-ordination with other organisations- National, International and Government.  
 v) Do's and Don'ts for the consumer activist.  
 vi) Visits to local and prominent consumer organisations.

- vii) Formulation of local consumer clubs.

**Practical and Sessionals :**

- 1] Sensory Evaluation/organoleptic examination of different food products.  
 2] Qualitative analysis of Foods to detect common adulterants.  
 3] Qualitative estimates to assess the quality of different food products.  
 4] Testing of Textile fibers - for fiber identification, and tensile strength.  
 5] Evaluation of some common consumer durable for performance and efficacy.  
 6] Study of building materials and cosmetics for harmful adulterants.

**References :**

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#### IFRM4 RESEARCH METHODS AND COMPUTER APPLICATIONS

Theory : 4 Hrs/wk

Theory : 75 Marks

Practical : 2 Hrs /wk

Practical and : 50 Marks  
Sessionals.

#### Objectives - The students enable -

1. To know importance of research in Home Science.
2. To understand the types, tools and methods of research.
3. To select methods and tools appropriate to the research problem.
4. To construct common data gathering tools.
5. To interpret data.
6. To develop skill in preparing research proposal.

#### Course Content.

#### Unit I : 1.1 Introduction to Research with Special Reference to social science research.

Definition and concept of research.

Objectives of research.

Importance of research.

Some characteristics of research.

Social characteristics of research.

Social Science research, role of research in Home Science.

Qualities of a good researcher.

#### 1.2 Types of research.

- 1.2.1 Types of studies classified by “Intent or Purpose”  
Formulative or Explorative Studies.

Descriptive Studies.

Diagnostic Studies.

Experimental Studies.

Evaluation Studies.

Observation Studies.

#### 1.2.2 Types of Studies Classified by “Approach”.

Historical approach.

Case study approach.

Survey approach.

Field Studies.

Action research.

#### 1.2.3 Fundamental, Pure, Theoretical Research.

#### 1.2.4 Applied research.

#### Unit II : 2.1 Research Design.

2.1.1 Formulation of research Problem - Identification, background and statement of problem.

2.1.2 Proposing a research plan/proposal.

Title of the research project.

Importance of the study.

Review of Literature.

Objectives of the study.

Hypothesis of the study.

Variables.

Methodology.

Chapterisation Scheme (Tentative)

Time Plan.

Budget Estimate.

2.1.3 Different types of experimental designs - experimental designs with one variable, experimental design with two or more variables. Two by two designs. Before and after control group design, post-test only control group design, soloman four groups, merits and limitations of each types of research.

#### 2.2 The Hypothesis.

2.2.1 Purpose of hypothesis.

2.2.2 Characteristics of hypothesis.

2.2.3 Types of hypothesis.

2.2.4 Criteria of hypothesis.

**2.3 Source of Information.**

- 2.3.1 Primary, Secondary and tertiary sources.
- 2.3.2 Review of literature.
- 2.3.3 Review of theoretical literature.
- 2.3.4 Review of research studies.

**2.4 Variables.**

- 2.4.1 Meaning and concept
- 2.4.2 Types of variables.

**Unit III : 3.1 Tools of research.**

- Interview - Types of interview, group interview.
- Advantages of interview method.
- disadvantages of interview method.
- various steps of interview method.

**3.2 Questionnaires and schedules**

- Difference between questionnaires and schedules.
- Steps in the construction.
- Guidelines for writing questionnaires.
- Types of questions.
- Aspects of question wording.

**3.3 Rating Scales****3.4 Observations****3.5 Reliability and validity of the tools.****3.6 Administration of the tools.**

- Preparation of the background.
- Procedure.
- Observations.
- Problems to overcome.

**Unit IV : 4.1 Pilot Study :**

- Meaning and concept of the pilot study.
- Importance of the pilot study.
- Organisation and implementation.
- Analysis and findings.
- Preparation of the mini report.
- Giving final shape to the study.

**4.2 Scaling techniques : (Measurement)**

- Purpose of scaling techniques.
- Types of scales - nominal, ordinal, interval and ratio scales.

**4.3 Sampling.**

- Meaning of census and sample.
- Characteristics of good sample.
- Types of samples based on probability and nonprobability.
- Probability Sampling.
- Simple random sample.
- Systematic random sample.
- Stratified sample.
- Multistage sampling.
- Non probability Sampling -
- Purposive sampling.
- Quota Sampling

**4.4 Analysis : Qualitative and Quantitative**

- Coding, categorization, classification, tabulation, frequency distribution tables, graphs, illustrations,
- Interpretation
- Report writing.

**Unit V : 5.1 Research report :**

- Introduction/background
- Problems
- Objectives
- Hypothesis
- Review of literature
- Methodology
- Result
- Summary and conclusion
- Basic preliminaries :
  - Title Page
  - Acknowledgment
  - List of tables
  - List of figures/graph/plates
  - Table of content
- Text of report
- Bibliography
- Footnotes, presentation of tables, spacing margins, pagination, indentations quotation.

## 5.2 Application of parametric and non-parametric tests, meaning, description and application in research.

### Practical : Computer Applications :

#### Objectives :

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

**Note :** Students should be given hands-on experiences to use appropriate software packages for selected statistical analyses.

#### Contents :

- 1] Conceptual understanding of statistical measures. Classification and tabulation of data. Measurement of central tendency, measures of variation.
- 2] Frequency distribution, histogram, frequency, polygons, ogive.
- 3] Binomial distribution.
- 4] Normal Distribution.
- 5] Parametric and Non-parametric tests.
- 6] Testing of Hypothesis. Type I and Type II errors. levels of significance.
- 7] Chi-square tests. Goodness of fit. Independence of attributes 2x2 and rxc contingency tables.
- 8] Application of student 't' test for small samples. Difference in proportion for means and difference in means.
- 9] Correlation, coefficient of correlation, rank correlation.
- 10] Regression and prediction.
- 11] Analysis of variance – one way and two-way classification.
- 12] Experimental Designs
  - completely randomized design.
  - randomized block design.
  - Latin square design.
  - factorial design
  - trend analysis.

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**SYLLABUS**  
**PRESCRIBED FOR**  
**M.SC. PART-II (HOME SCIENCE)**  
**(FAMILY RESOURCE MANAGEMENT)**  
**(EFFECTIVE FROM THE SESSION 2004-05)**

**2FRM1 Household Equipments and Ergonomics**

Theory - 4 Cl.Hrs./wk Theory - 75 Marks  
Practical - 4 Cl.Hrs./wk Practical - 50 Marks

**Objectives :-**

- To become aware of the role 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.
- To understand the recent developments in household equipment design and technology.
- To study the construction and finishes in various appliances.
- To understand the installation, operating, servicing, and replacement of parts of various equipments.
- To recognise the importance of standards and its benefits.

**Contents :**

- Unit-I : 1) Ergonomics :**
- Scope of ergonomics in home and other occupations.
  - Nature of work in household and other occupations.
  - Interdisciplinary and applied nature of ergonomics as a field of study.
  - Man-Machine-Environment system.

**2) Ergonomics in work place :**

- Anatomical dimensions and its relation to space needs.
- Postures at work and their effect on health.
- Anthropometric measurements for different postures-standing, sitting.
- Work space and storage needs.
- Functional design of work places, equipments and tools.

**Unit-II : 1) Recent development in household equipments and appliance technology :**

- Trends in base materials, finishes, design, and constructional features.
- Characteristics functional standards design and use of equipment.

**2) a) Basics of Electricity.**

- Power source, voltage, resistance, current.
- Series / parallel circuits.
- AC/DC sources.

**b) Electrical Materials**

- Conductors
- Semiconductors
- Insulators

**Unit-III : Use of equipment :**

- 1) Non-electrical appliances and tools-Knives, spoons, opener, sieves, grater, cutter, chopper, Eggs beater Whisk cooker, Pressure Cooker, water filters, brooms and brushes.
- 2) Gas cooking ranges, Fuel gas characteristics, fuel values surface burners, thermal efficiency ovens, broilers grills.

**Unit-IV : Electrical Heating Appliances :**

- Electric Ranges, surface unit oven broiler.
- Structural features and design features.
- Thermostat.
- Heat settings, thermal efficiency.
- Electric iron, Electric toaster, immersion heater and room heater etc.

- Unit-V : 1) Electrical motor appliances :** Types of motors used in appliances and their characteristics vacuum- cleaners, dishwashers, food waste disposer, washing machine, Dryers, Hair Dryer, Household Refrigerator, construction, functional efficiency, temperature at different zones of storage.

**2) Small motor appliances :-** Fans, Exhaust fans, mixers, blenders, grinders, juicer etc.

**Practicals :**

- 1) Use of instruments employed in ergonomic research.
  - 1.1 Treadmill, step stool.
  - 1.2 Heart rate monitor, oxylog, ECG, Lung function test.
  - 1.3 Noise level meter, thermal, environmental kit, illumination meter.
  - 1.4 Skin thermometer.
  - 1.5 Midget impinger (for dust collector)
  - 1.6 Sphygmomanometer
  - 1.7 Height weight measuring using heart rate and oxygen consumption.
  - 1.8 Stop watches.
- 2) Determination of workload using heart rate and oxygen consumption.
  - 2.1 Tread mill.
  - 2.2 Bicycle ergometer.
  - 2.3 Step stool.
- 3) Determination of workload of some selected household activities by using the-
  - 3.1 Pulse rate technique
  - 3.2 Time and Motion Study
  - 3.3 Physiological cost
    - 3.3.1 Energy cost
    - 3.3.2 Cardiac cost
    - 3.3.3 Temporal cost
- 4) Postures.
  - 4.1 Identifying the types of postures assumed by women during work, analysis and interpretation of the results.
- 5) Determination of jobs stress at work by survey of a few selected families.
- 6) Assessment of heat stress and interpretation of results (2)
  - 6.1 Outdoor.
  - 6.2 Indoor
  - 6.3 Kitchen
- 7) Measurement of Noise using noise level meter for various situation in home, office, traffic situation.
- 8) Determination of some selected body dimensions using anthropometry kit, Statistical analysis of the data and interpretation of findings.
- 9) Determining the relationship of anthropometric dimensions of workers with space requirements of some selected activities, e.g. cooking, chopping, grinding on platform, sweeping, swabbing, etc.
- 10) Determination of minimum space required for selected activities.

Equipments	Test
1. Pressure cookers of various makes	<ol style="list-style-type: none"> <li>1. Capacity test.</li> <li>2. Safety test.</li> <li>3. Comparison of cooking time.</li> <li>4. Operation of control valve &amp; fusible plug.</li> </ol>
2. Food Mixers & grinders of various kinds.	<ol style="list-style-type: none"> <li>1. Performance test.</li> <li>2. Insulation test.</li> <li>3. Leakage Test.</li> <li>4. Input test.</li> <li>5. Starting test.</li> <li>6. Temperature rise test.</li> <li>7. Earthing Contact Resistance Test.</li> <li>8. H.V. Test</li> </ol>
3. Refrigerators of different makers.	<ol style="list-style-type: none"> <li>1. Door seal test.</li> <li>2. Input test.</li> <li>3. Insulation test.</li> <li>4. Leakage test.</li> <li>5. Performance test.</li> </ol>
4. Kerosene stove and pressure stove of different makes.	Comparative Study of thermal efficiency cooking time, maintenance, heat distribution, etc.
5. Electric Iron Automatic / Non-automatic.	<ol style="list-style-type: none"> <li>1. Input test.</li> <li>2. Leakage current test.</li> <li>3. Insulation test.</li> <li>4. Heating up time.</li> <li>5. Temperature test at different fabrics-setting.</li> <li>6. Distribution test of heat.</li> <li>7. Performance test.</li> <li>8. Initial overswing temperature, heating up excess temperature and eyelid fluctuation.</li> <li>9. H.V. test.</li> <li>10. Earthing Contact Resistance test.</li> </ol>
6. Washing Machine Automatic/Non-automatic/Semi	<ol style="list-style-type: none"> <li>1. Input test.</li> <li>2. Insulation test.</li> </ol>

- automatic.
3. Leakage current test.
  4. Performance test.
  5. H.V. test.
  6. Earthing Contact Resistance test.
7. Vacuum Cleaner.
1. Use & compare different vacuum cleaners using different methods of cleaning.
  2. Input test.
  3. Insulation test.
  4. Leakage test.
8. Solar cooker, chulha, smokeless chulha. Understanding the merits & demerits of these equipments by using standard recipes.

**Practical Scheme :**

1) Experiments on ergonomics	- 15 marks
2) Testing experiments (on equipment)	- 15 marks
3) Viva	- 10 marks
4) Record	- 10 marks
Total	- 50 marks

**Reference :**

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**2FRM2 Family Meal Management****Objectives : To enable students to -**

1. Understand the principles of Chemistry of food.
2. Apply the principles while preparing and cooking foods.
3. Apply the knowledge of Foods in mean planning.
4. Understand the need for special diets for different physiological and diseased status.
5. Understand the principles of meal planning and quantity food preparation.

**THEORY**

- Unit-I : 1. Meal management - Recommended Dietary allowance - Meaning and basis for the ICMR allowances.
2. Meal Planning-Principles involved in planning meanus-Indian, Western Style, teachniques of writing menus, menus-modification to suit different age groups and special conditions (pregnancy, Lactation) formal and informal food service. Menu planning at different occasion, Birthday Party, Marriage Party, Other Parties and different festivals.
- Unit-II : 1. Standardization of recipes, importance of organization for large quantity for production, quality control calculation of food cost and production quantity control calculation of food cost and portion control. Service Management. Serving foods to large groups and Principles involved. Types of service table service and dining room, management delivery and service of food in different systems, centralised systems of service.
2. Factors affecting acceptability of food, selection of taste, panel, difference, preference and descriptive tests, microscopic examination, chemical methods physical characteristics like colour, appearance,

texture density volume, tenderness, viscosity and surface tension, moisture and weight loss.

3. Changes in food due to cooking - Physical and Physio chemical changes in food relation to cookery gel formation, denaturation of protein properties of colloids, emulsions, stabilisers and browning reactions.

Unit-III : 1. Sugar Cookery - Crystallization of sugar stages of sugar cookery fondant, fudge, caramel and brittles. Examples of Indian preparations (Halwa and syrup of Gulab Jamoon).

2. Starch Cookery-Sources and uses of starch gelatinisation, flours composition and backing qualities, batters, doughs, bread making, leavening agents.

Unit-IV : 1. Protein Cookery-Meat, Fish-constituents, methods of cooking. Eggs-composition, coagulation of egg protein, egg cooked in shell, poached, cake and sponge cake.

2. Milk and Milk products, composition of milk, Physical and Chemical properties coagulation of milk protein, creaming butter and cheese making.

3. Grams, Dhals and Nuts-composition, methods of processing and cooking effects of processing such as soaking, decorfication, germination and fermentation.

Unit-V : 1. Vegetables and Fruits - structure, texture, pigments and acids in vegetables and fruits, browning reaction, changes in cooking, pectic substances, jams and jellies.

2. Fats and Oils - Sources and extraction of edible fats and oils, characteristics of fats and oils. Physical and chemical properties changes in fat during storage and cooking use of fat, shortening value, flakiness.

### PRACTICALS

1. Organising, preparing and serving food for three different meals for 50 members or more.
2. Standardization of five selected recipes in relation to nutritive value, cost, time and equipment.
3. Evaluating the acceptability of foods : Subjective and objective methods.

4. Sugar cookery - Crystallization of sugar, stages cookery, fondant, fudge caramel and brittles, Indian preparation.

5. Starch Cookery - Use of flour mixtures cereals and pulses microscopic examination of starch geletinisation of starch gels gluten formation preparation of dal iddli, appam, puri, chappati demonstration of bread making.

6. Meat fish Poultry - Changes in cooking One recipe in each involving different methods of cooking.

- i) Egg Cookery - Coagulation of egg white and egg yolkboiled egg poached egg omlet custards and cakes, foams and emulsion mayonaise.

- ii) Milk Cookery - Cream of tomato soup cheese cury curds ice cream.

- iii) Pulse cookery - Effect of soaking and germination.

7. Vegetables and Fruit Cookery - Factors effecting colour texture and flavour of vegetables darkening of vegetables and fruits preparation of jams and jellies.

8. Fats and Oils-Smoking temperature factors effecting absorpotion of fat deep fried foods and pastries.

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18. Assignment Children UNICEF.
19. UNICEF News, UNICEF.
20. Food Technology, Journal of the Institute of Food Technology, Illinois U.S.A.
21. Journal of food Science and Technology, Association of food Scientists and Technologists India.
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### 2FRM3 Entrepreneurship Management

Theory	-	4 Cl.Hrs./wk	Theory	-	75 Marks
Practical	-	4 Cl.Hrs./wk	Practical	-	50 Marks

#### Objectives :-

- 1) To promote entrepreneurship skills among the students.
- 2) To orient and impart knowledge towards identifying and implementry entrepreneurship opportunities.
- 3) To develop management skills for entrepreneurship development.

**Unit-I :** **Entrepreneurship** - Definition, concept and characteristics, entrepreneurship development in India. Development of women entrepreneurs in India.

**Business environment for the entrepreneur** - Government of India's policy towards promotion of entrepreneurship, reservations and sanctions for small scale sector.

**Unit-II :** **Agencies for development of entrepreneurship** - Role of SSI, procedure and formalities for setting up SSI, Role of MIDC in Industrial development, Role of NSIC - Supply of

machinery and equipment on hire purchase, voluntary organisation, bank loan.

**Personal effectiveness :-** Factors affecting entrepreneur's role, effective communication skills, achievement motivation, goal orientation, psychological barriers to self employment, creativity, assertiveness.

**Business Management, Resource Management** - Man, Machine and Material.

**Unit-III :** **Marketing and Merchandising concept, elements of marketing, sales techniques, methods of sales promotion** - Brands, standards, Labelling. Role of exhibition, display. Marketing and Merchandising environment in India, Importance of business communication.

**Unit-IV :** Principles of marketing and Merchandising for the domestic and export market. Importance, functions and types of packaging. Advertising and quality control consumption pattern and consumer problems.

**Unit-V :** **Book keeping and account keeping** - Concepts, simple book keeping and accounting, maintenance of essential records, costing method, calculations of profits and loss. Procedure for payment. Working out a balance sheet.

**Legislations :** Licensing, registration, Municipal laws, business ethics, income tax, Labour law application, consumer complaint redressal.

#### Practical : Objectives -

- 1) To establish a small scale business.
- 2) To promote entrepreneurship skills among the students.
- 3) To know environment related to small scale industries & business.

#### Related Experience -

- 1) Visit agencies that finance small scale industries.
- 2) Visit to small scale industries.

#### Practical :-

- 1) Market survey - Survey of local market, to know needs of people and available market infrastructure / situation.
- 2) Formulation of project proposal.
- 3) Article to be selected from following areas :

- i) Furnishing article, ii) Handicraft, iii) Clothing construction, iv) Food product, v) educational material, vi) Utility articles.
- 4) Standardisation of selected article.
  - 5) Ten articles are to be prepared from above.
  - 6) Organisation of exhibition - cum - sale of the prepared article.
  - 7) Maintain accounts of the activity.

**Scheme of Practical Examination : Max. 50 marks.**

1) Formulation of project proposal	-	10 marks
2) One article to be prepared	-	20 marks
[Same article is to be prepared from Sr.No.3)]		
3) Report	-	10 marks
4) Viva	-	10 marks
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Total	-	50 marks
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**Reference :**

- 1) M.Gangadharrao - "Entrepreneurship and Entrepreneur Development" publishing house, Kanishka, New Delhi, 1992.
- 2) Vasant Desai - "Entrepreneurship Development" Himalaya Publishing house, 1991, Vol.I,II & III.
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- 4) B.K.Acharya & Gonekar P.B. - "Marketing and Sales Management" Himalaya publishing house, Bombay.
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- 12) Meredith, G.G. et al (1982) : Practice of Entrepreneurship, ILO, Geneva.
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- 18) Parekh U and Rao T.V., 1978, Personal efficacy in developing entrepreneurship learning system, New Delhi, Unit-VIII.
- 19) Rao T.V and Parekh U., 1982, Developing Entrepreneurship. A Hand book for New Entrepreneurs. Entrepreneurship Development Institute of India (Unit-IX, X).

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**2FRM3 Scientific Writing in Family Resource Management**

Theory	- 4 Cl.Hrs./ wk	Theory	- 75 Marks
Practical / Sessional	- 2 Cl.Hrs. /wk	Practical / Sessional	- 50 Marks

**Objectives :**

- To be able to appreciate and understand importance of writing scientifically.
- To develop competence in writing and abstracting skills.
- To write either a draft research proposal or a chapter of dissertation.

Contents :-

**Unit-I : Scientific writing as a means of communication.**

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

**Unit-II : How to formulate outlines.**

- The reasons for preparing outlines.
  - as a guide for plan of writing.
  - as skeleton for the manuscript.
- Kinds of outline.
  - topic outlines.
  - Conceptual outline.

- sentence outlines.
- combination of topic and sentence outlines.

**Unit-III : Drafting Titles, Sub titles, Tables, Illustrations.**

- Tables as systematic means of presenting data in rows and columns and lucid way of indicating relationships and results.
- Formatting Tables : Title, Body stab, Stab Column, Column Head, Spanner Head, Box Head.
- Appendices : Use and guidelines.

**Unit-IV : The writing process :**

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

**Unit-V : Parts of Dissertation / Research report / Article.**

- Introduction.
- Review of Literature.
- Method.
- Results and Discussion.
  - Ask questions related to : content, continuity, clarity, validity, internal consistency and objectivity during writing each of the above parts.

**Writing for Grants.**

- Presenting pilot study / data.
- Research proposal and time frame.
- Clarity, specificity of method.
- Clear organization.
- Outcome of study and its implications.
- Budgeting.
- Available infra-structure and recourses.
- Executive Summary.

**Practical / Sessional :- 50 Marks**

To study the use of scientific writing skills in different research reports and journals and maintain report.

**References :-**

- 1) Apa (1984). Publication Manual of American Psychological Association (3rd Edition), Washington : APA.
- 2) Cooper, H.M. (1990). Integrating Research : A Guide for Literature Reviews (2nd Edition), California : Sage.
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- 6) Mullins, C.J. (1977). A Guide to Writing and Publishing in Social and Behavioral Sciences. New York : John Wiley & Sons.
- 7) Richardson, L. (1990). Writing strategies. Reaching Diverse Audience, California : Sage.
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- 9) Thyer, B.A. (1994). Successful Publishing in Scholarly Journals, California : Sage.
- 10) Wolcott, H.F. (1990). Writing up Qualitative Research, Newbury Park : Sage.

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**2FRM4**

**Dissertation, Viva, Seminar**

	Total Marks	: 125
<b>Dissertation</b> - Practical - 4 Periods/wk	Dissertation	- 75
<b>Seminar</b> - Practical - 2 Periods/wk	Viva	- 25
	Seminar	- 25
<b>Distribution of Marks of Dissertation:</b>	<b>Marks</b>	
Title & Introduction		- 10
Review of Literature		- 10
Methodology		- 15
Result, Discussion & Conclusion		- 20
Summary, implications or recommendations		- 10
Final report submission with corrections (Hard copy as well as CD)		- 10
Viva		- 25

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- 100

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**Distribution of Marks of Seminar Activity : Seminar on -**

1. Synopsis of ones own dissertation	- 10
2. One's own dissertation report	- 10
3. Current trends & Issues in Resource Management	- 05

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25

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**Prospectus No. 10194**

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

**Family Resource Management**

**INDEX**

1. Special Note for information of the students	1 to 2
2. Pattern of question Paper on the Unit System.	2
3. Ordinance No. 154	3 to 5
4. Regulation No. 27 of 2003	6 to 7

**M.Sc.Part-I**

5. Theory of Management	8 to 10
6. Housing For Family Living	11 to 14
7. Consumer in the Market	14 to 16
8. Consumer Safety - Testing	17 to 20
9. Research Methods and Computer Applications	20 to 26

**M.Sc.Part-II**

10. Household Equipments and Ergonomics	26 to 31
11. Family Meal Management	31 to 34
12. Entrepreneurship Management	34 to 37
13. Scientific Writing in Family Resource Management	37 to 39
14. Dissertaion, Viva and Seminar	39 to 40

**SANT GADGE BABA AMRAVATI UNIVERSITY**

**SPECIAL NOTE FOR INFORMATION OF THE STUDENTS**

(1) Notwithstanding anything to the contrary, it is notified for general information and guidance of all concerned that a person, who has passed the qualifying examination and is eligible for admission only to the corresponding next higher examination as an ex-student or an external candidate, shall be examined in accordance with the syllabus of such next higher examination in force at the time of such examination in such subjects papers or combination of papers in which students from University Departments or Colleges are to be examined by the University.

(2) Be it known to all the students desirous to take examination/s for which this prospectus has been prescribed should, if found necessary for any other information regarding examinations etc., refer the University Ordinance Booklet the various conditions/provisions pertaining to examination as prescribed in the following Ordinances.

Ordinance No. 1	:	Enrolment of Students.
Ordinance No. 2	:	Admission of Students
Ordinance No. 4	:	National cadet corps
Ordinance No. 6	:	Examinations in General (relevent extracts)
Ordinance No. 18/2001	:	An Ordinance to provide grace marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting Distinction in the subject and condonation of defficiency of marks in a subject in all the faculties prescribed by the Statute No.18, Ordinance 2001.
Ordinance No. 9	:	Conduct of Examinations (relevent extracts)
Ordinance No. 10	:	Providing for Exemptions and Compartments
Ordinance No. 19	:	Admission of Candidates to Degrees.
Ordinance No. 109	:	Recording of a change of name of a University student in the records of the University.

Ordinance No. 6 of 2008 : Improvement of Division/Grade.

Ordinance No.19/2001 : An Ordinance for Central Assessment Programme, Scheme of Evaluation and Moderation of answerbooks and preparation of results of the examinations, conducted by the University, Ordinance 2001.

**J.S.Deshpande**

Registrar

Sant Gadge Baba Amravati University.

**PATTERN OF QUESTION PAPER ON THE UNIT SYSTEM**

**The pattern of question paper as per unit system will be boradly based on the following pattern.**

- (1) Syllabus has been divided into units equal to the number of question to be answered in the paper. On each unit there will be a question either a long answer type or a short answer type.
- (2) Number of question will be in accordance with the unit prescribed in the syllabi for each paper i.e. there will be one question on each unit.
- (3) For every question long answer type or short answer type there will be an alternative choice from the same unit. However, there will be no internal choice in a question.
- (4) Division of marks between long answer and short answer type question will be in the ratio of 40 and 60.
- (5) Each short answer type question shall Contain 4 to 8 short sub question with no internal choice.

**% § ORDINANCE NO. 154**  
**Examinations Leading to the Degree of**  
**(गृहविज्ञान पारंगत)**  
**Master of Science (Home Science)**

1. (1) There shall be two examinations leading to the Degree of (गृहविज्ञान पारंगत) Master of Science (Home Science), namely :-
  - (i) the (गृहविज्ञान पारंगत भाग-१) M.Sc. (Home Science) Part-I Examination, and
  - (ii) the (गृहविज्ञान पारंगत भाग-२) M.Sc. (Home Science) Part-II Examination.
- (2) The duration of the course shall be of two academic years with the (गृहविज्ञान पारंगत भाग-१) M.Sc. (Home Science) Part-I Examination at the end of the first academic year and the (गृहविज्ञान पारंगत भाग-२) M.Sc. (Home Science) Part-II Examination at the end of the Second academic year.
2. The examinations specified in the preceding paragraph shall be held annually at such places and on such dates as may be appointed by the Board of Examinations.
3. Subject to his/her compliance with the provisions of this Ordinance and of other Ordinances in force from time to time, a candidate who has been admitted to the (गृहविज्ञान स्नातक) B.Sc. (Home-Science) Degree of the University, or an equivalent Degree of any other Statutory University and has prosecuted a regular course of study in a College or an University Department or a recognised Institution in the subject in which he/she offers for the (गृहविज्ञान पारंगत भाग-१) M.Sc. (Home Science) Part-I Examination for a period of not less than one academic year since the date of his/her passing the Final B.Sc. (Home Science)(अन्त्य गृहविज्ञान स्नातक), B.Sc. (Home Science) Final (गृहविज्ञान स्नातक अन्त्य) Examination shall be eligible for admission to the Part-I Examination.
4. Subject to his/her compliance with the provisions of this Ordinance and of other Ordinances in force from time to time, a candidate

% Effective from the Part-I Examination of 1981, as approved by the Executive Council, dated 22/23-9-1977, replacing the previous Ordinance No. 104, and amended by Ordinance Nos. 95 of 1981, 19 of 1983, and 10 of 1985.

§ Latest amended vide Ordinance No.13 of 2003 (As approved by Management Council in its meeting dt.24.07.2003)

who has passed the (गृहविज्ञान पारंगत भाग-१) M.Sc. (Home Science) Part-I Examination of the University and has since passing the (गृहविज्ञान पारंगत भाग-१) M.Sc. (Home Science) Part-I Examination, prosecuted a regular course of study in a College or an University Department or a recognised Institution for not less than one academic year, in the subject which he/she offers for the Part-II Examination, shall be eligible for admission to the Part-II Examination.

5. Without prejudice to the other provisions of Ordinance No. 6 relating to the Examinations in General, the provisions of Paragraphs 5,8,10,27 and 32 of the said Ordinance shall apply to every Collegiate candidate.
6. The fee for the Examination shall be as prescribed by the competent authority, time to time.
7. Every applicant for admission to the examination shall offer one of the following subjects, namely :-
  - (i) Family Resource Management,
  - (ii) Food Science and Nutrition,
  - (iii) Human Development, and
  - (iv) Textile and Clothing.

Provided firstly, that a person who has passed the Part-I Examination in one of the subjects referred to above may, subject to his/her compliance with the provisions of this Ordinance, present himself/herself for the examination in a subsequent year in-

- (a) a subject not offered by him/her previously,
- (b) a paper or combination of papers not offered by him/her previously;

Provided secondly, that an applicant for admission under the first proviso shall have undergone the prescribed course of practical training in a College or an University Department or a recognised Institution;

Provided thirdly, that an examinee successful under clause (b) of the first proviso shall not be placed in any division nor shall be eligible for any scholarship, prize or medal.

8. The scope of the subjects shall be as indicated in the Syllabus.
9. The maximum marks allotted to each paper, practical, viva-voce, dissertation and sessionals, and the minimum marks which an examinee must obtain in order to pass the Part-I or the Part-II Examination, as the case may be, shall be as indicated in Appendix/ Appendices appended with the related regulation.

The maximum marks allotted to each paper, practical, viva voce, dissertation, and sessionals, and the minimum marks which an examinee admitted in the Academic Session 2003-2004 for M.Sc.(Home Science) Part-I and 2004-2005 for M.Sc. (Home Science) Part-II, must obtain in Order to pass the Part-I or the Part-II examination, as the case may be, shall be as indicated in Appendix-A appended with the related Regulation.

10. There shall be no classification of examinees successful in Part-I of the Examination.
11. Examinees who are successful at the Part-II Examination and who have obtained not less than 60% marks in aggregate at the Part-I and Part-II Examination taken together, shall be placed in the First Division. All other successful examinees shall be placed in the Second Division.
12. Provisions of Ordinance No.18 of 2001 in respect of an Ordinance to provide grace marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting distinction in the subject and condonation of deficiency of marks in a subject in all the faculties prescribed by the Statute No.18, Ordinance, 2001 and of Ordinance No.10 relating to Exemptions and Compartments shall apply to the Examinations under this Ordinance.
13. As soon as possible after the examinations, but not later than the 30th June next following, the Board of Examinations shall publish a list of successful examinees at the Part-I and Part-II Examinations. The names of examinees passing the Examination as a whole in the minimum prescribed period and obtaining the prescribed number of places in the First or the Second Division shall be arranged in Order of Merit, as provided in the Examinations in General Ordinance No.6.
14. Save as otherwise expressly provided in this Ordinance, no person shall be admitted to an examination under this Ordinance, if he/she has already passed the same examination, or an equivalent examination of any other Statutory University.
15. Examinees successful at the Part-I Examination shall be entitled to receive a Certificate signed by the Registrar, and those successful at the Part-II Examination shall on payment of the prescribed fees, receive a Degree in the prescribed form signed by the Vice-Chancellor.

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### **Regulation No. 27 of 2003**

#### **Examinations leading to the Degree of Master of Science (Home Science) (Family Resource Management) Regulation, 2003.**

Whereas it is expedient to make Regulation in respect of Examinations leading to the Degree of Master of Science (Home Science) (Family Resource Management) for the purposes hereinafter appearing, the Management Council is hereby pleased to approve the following Regulation.

1. This Regulation may be called "Examinations leading to the Degree of Master of Science (Home Science) (Family Resource Management) Regulation, 2003."
2. This Regulation shall come into force from,
  - i) the Acaemic Session 2003-2004 for M.Sc.Part-I (Home Science) (Family Resource Management), and
  - ii) the Acaemic Session 2004-2005 for M.Sc.Part-II (Home Science) (Family Resource Management).
3. The Schemes of teaching & examinations for M.Sc. Part-I (Home Science) (Family Resource Management), and M.Sc.Part-II (Home Science) (Family Resource Management) shall be as given in Appendix-A appended with this Regulation.

**Appendix-A****Faculty of Home Science****Scheme of Teaching and Examination for M.Sc. Home Science (Family Resource Management)**

Paper No.	Title of Paper	Teaching Scheme			Examination Scheme						
		(Hours of instructions per week)			Duration in Hrs.	Theory		Practical /Sessional/Seminar/Viva			Total
Theory	Practical/Sessional/Project	Total	Max.Marks	Min.Marks		Duration in Hrs.	Max.Marks	Min.Marks			
<b>M.Sc.Part-I (Home Science) (F.R.M.)</b>											
1FRM1	Theory of Management	4	4	8	3	75	19	—	50	13	125
1FRM2	Housing for Family Living	4	4	8	3	75	19	3	50	13	125
1FRM3	Consumer in the Market OR Consumer Safety-Testing	4	2	6	3	75	19	—	50	13	125
1FRM4	Research Methods and Computer Application	4	2	6	3	75	19	3	50	13	125
<b>Total</b>		16	12	28		300	108		200	72	500
<b>M.Sc.Part-II (Home Science) (F.R.M.)</b>											
2FRM1	Household Equipments and Ergonomics	4	4	8	3	75	19	3	50	13	125
2FRM2	Family Meal Management	4	4	8	3	75	19	3	50	13	125
2FRM3	Entrepreneurship Management OR Scientific Writing in Family Resource Management	4	2	6	3	75	19	—	50	13	125
2FRM4	Dissertation, Viva, Seminar	4	2	6	-	75	19	—	50	13	125
<b>Total</b>		16	12	28		300	108		200	72	500