

BHAVNAGAR UNIVERSITY

BHAVNAGAR

(NACC Accreditation Grade “B”)

CREDIT AND SEMESTER SYSTEM

SYLLABUS

MASTER OF ARTS (M.A.)

HOME SCIENCE

(In Force From Academic Year: 2010-2011)

तमसो मा ज्योतिर्गमय



M.A.
Credit and Semester System Syllabus

NAME OF THE SUBJECT: HOME SCIENCE

SEMESTER – 1st

SR. NO.	PAPER NO.	NAME OF THE PAPER	TOTAL MARKS EXT+INT=TOTAL	PASSING STANDARD EXT+INT= TOTAL	TOTAL TEACHING HOURS	CREDITS
1	1	Food And Nutrition-I (Experimental Cookery)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
2	2	Home Management - An Introduction:	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
3	3	(Child Psychology)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
4	4	(Home Science Education & Extension)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
OR						
5	4	Community Organisations & Development (Elective)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
6	5	Practical	50 + 00 = 50	18 + 00 = 18	15 Weeks x 02 Hours = 30	02

*** INTERNAL MARKS**

ASSIGNMENT	10
SEMINAR	10
TEST	10



M.A.
Credit and Semester System Syllabus

NAME OF THE SUBJECT: HOME SCIENCE

SEMESTER – 2nd

SR. NO.	PAPER NO.	NAME OF THE PAPER	TOTAL MARKS EXT+INT=TOTAL	PASSING STANDARD EXT+INT= TOTAL	TOTAL TEACHING HOURS	CREDITS
1	6	Food And Nutrition – II (Applied Nutrition)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
2	7	Home Management – II (Family And Family Resource Management)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
OR						
3	7	Home Management – II (Family Resource Management And Interior Decoration)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
4	8	Child Development	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
5	9	Adult Education And Distance Education	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03

* <u>INTERNAL</u>	<u>MARKS</u>
ASSIGNMENT	10
SEMINAR	10
TEST	10



M.A.
Credit and Semester System Syllabus

NAME OF THE SUBJECT: HOME SCIENCE

SEMESTER – 3rd

SR. NO.	PAPER NO.	NAME OF THE PAPER	TOTAL MARKS EXT+INT=TOTAL	PASSING STANDARD EXT+INT= TOTAL	TOTAL TEACHING HOURS	CREDITS
1	10	Food And Nutrition – III (Elementary Study of Nutrients- I)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
OR						
2	10	Food And Nutrition – III (Food Packaging) (Elective)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
3	11	Home Management – III (Family Housing)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
4	12	Research Methods	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
5	13	Clothing And Textile (Textiles And Testing)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
6	14	Practical	50 + 00 = 50	18 + 00 = 18	15 Weeks x 02 Hours = 30	02

* <u>INTERNAL</u>	<u>MARKS</u>
ASSIGNMENT	10
SEMINAR	10
TEST	10



M.A.
Credit and Semester System Syllabus

NAME OF THE SUBJECT: HOME SCIENCE

SEMESTER – 4th

SR. NO.	PAPER NO.	NAME OF THE PAPER	TOTAL MARKS EXT+INT=TOTAL	PASSING STANDARD EXT+INT= TOTAL	TOTAL TEACHING HOURS	CREDITS
1	15	Food And Nutrition – IV (Elementary Study of Nutrients- Ii)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
2	16	Home Management – IV (Interior Home Decoration)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
3	17	Statistic	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
OR						
4	17	Entrepreneurship Development and Introduction To Computer	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
5	18	Clothing And Textile-II (Textile Process)	70 + 30 = 100	28 + 12 = 40	15 Weeks x 03 Hours = 45	03
6	19	Practical	50 + 00 = 50	18 + 00 = 18	15 Weeks x 02 Hours = 30	02

* <u>INTERNAL</u>	<u>MARKS</u>
ASSIGNMENT	10
SEMINAR	10
TEST	10



M.A. (HOME SCIENCE)
SEMESTER – I

Paper No: 01 FOOD AND NUTRITION-I (EXPERIMENTAL COOKERY)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	The general structure of food materials and the relation of cookery to colloid chemistry. a) Denaturation and coagulation of protein. b) Emulsions and Foams c) Browning reactions. d) Conditions of gel formulation	09 Hours	14
Unit -2	a) Sugar Cookery 1) Types & composition 2) Properties and uses in cooking. b) Cereals cookery - composition, Properties, and uses in cooking a whole and broken cereals structure and distribution of nutrients in the grain, Effect of parboiling, milling and conversion. c) Uses of flour and flour mixtures in Indian cookery, leavening agents. betars, and dough.	09 Hours	14
Unit -3	Vegetable cookery - classification, structural method of cooking, changes occurring during cooking and factors affecting colour palatability and nutritive value of cooked products.	09 Hours	14
Unit -4	Fruits cookery - structure, fresh and dried, preparation of raw and cooked fruits	09 Hours	14
Unit -5	Fats and oil cookery - manufacture and Properties of locally available fats and their user in food preparation, rancidity, decomposition and absorption as affecting quality of products.	09 Hours	14

Break up of Continuous Internal Evaluation:

1. Assignment	10 Marks
2. Seminar	10 Marks
3. Test	<u>10 Marks</u>
Total Marks	30 Marks

Reference / Text- Books/ Additional Reading:

1. Experimental Cookery – Loue Belle.
2. Food selection & preparation – Sweetman & Mekella.
3. Our food – M.Swaminathan & R.K. Bhagwan.
4. Food & principles of cookery – Eitch & Feranas
5. Flavour Research & Food Acceptance – Arther D. Little.
6. Food Science – C. F. TRL, Mysore.



Paper No: 02 HOME MANAGEMENT - AN INTRODUCTION:

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Introduction to Home Management: Meaning of Management, Definition of Home Management, Importance and objectives of Home Management, Characteristics of Home Management, Scope and principles of Home Management	09 Hours	14
Unit -2	Concepts of Management in the House: Values: definitions and meaning of values, Importance and characteristics of values, Classification of values Goal: definitions and meaning of goal, Classification of goal, Changes in goal Standard: definitions and meaning of standard, Classification of standard, Affective factors of standard	09 Hours	14
Unit -3	Process of Households' Management: Decision making process: Definition and meaning of Decision, Classification of Decision, Various steps of Decision making process, Factors affecting of Decision making	09 Hours	14
Unit -4	Steps of household Management process Planning: Importance and Definition planning, Characteristics and basic steps of planning, Classification of planning Organization: Importance of organization, Meaning and Definition of organization, Different steps in organization	09 Hours	14
Unit -5	Steps of household Management process: Controlling: Meaning and Definition of controlling, Steps in controlling, Characteristics of control Evaluation: Meaning and Definition of evaluation, Objectives of evaluation, Classification of evaluation	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. Management for modern families- Gross and Crandall
2. Management in Family living - Nickel and Dorsey
3. Home Management and interior decoration - Dr. Brindashih
4. Family Resource Management - Dr. Brindashih
5. Gruh Prabandh, sadhan vyavshtha and interior decoration - Dr. Rina Khaluja



Paper No: 03 CHILD PSYCHOLOGY

Marks: 100Marks
Marks: Semester End Examination 70 Marks
Continuous Internal Evaluation 30 Marks

Credits: 03

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	The science child study: ♣ Significance of child study ♣ Prescientific attitudes towards the child ♣ Modern approaches to child study	09 Hours	14
Unit -2	Creative activity and play of children ♣ Defination of play ♣ Principal of play ♣ Importance of play	09 Hours	14
Unit -3	The dynamics of children's behavior ♣ Motivation of behaviour ♣ Types of Motivation	09 Hours	14
Unit -4	Deprivation and frurtration ♣ The nature of incentives ♣ Intrinsic versus ♣ Entrinsic motives ♣ Maturation and Motivation	09 Hours	14
Unit -5	Development of social behavior ♣ Stages of social development ♣ Aspects of the socialising process ♣ Factors inffluencing social development ♣ Measurement of social maturity	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. Developmental Psychology –Elizabeth B. Hurlock
2. Child development & Adjustment: A study of Child psychology - Lerner D. Grow & Alice Crow.
3. Adolescent Development-Elizabeth B. Hurlock.
4. The Child Development-Don C. Dinkmeyer.



Paper No: 04 HOME SCIENCE EDUCATION & EXTENSION

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Curriculum Development in Home Science: Definition of Curriculum theories, Educational Objectives for Home Science cognitive, effective, psychomotor, objectives.	09 Hours	14
Unit -2	Learning experiments in Home Science For acquiring information, For developing interests, For developing attitudes.	09 Hours	14
Unit -3	Evaluation in Home Science: Need for evaluation Procedure of evaluation Evaluation Techniques: Paper Pencil Test, Projective Test, Check lists & rating scales.	09 Hours	14
Unit -4	Education of women in India: History of Education of women, History of Home Science Education in India, Contemporary status of women's education in India, Contribution of following educationist to education Dr. Karve, Gandhiji, Gokhale, Raja Rammohan Ray, Durgabai Deshmukh	09 Hours	14
Unit -5	Changing Education Status of Indian Women: a) Fostering factors of Education b) Hindering factors of Education	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. Extension & Rural welfare – Sharma O. P.
2. Extension Education in community development – Ministry of Food & Agriculture, Govt. of India.
3. Extension in rural community - Saveli A. H.
4. The meaning of Home Science - Devdas R. P.
5. Teaching Home Economics - Hall O. A. & Paolycel



Paper No: 04 COMMUNITY ORGANISATIONS & DEVELOPMENT (ELECTIVE)

Marks: 100Marks Credits: 03
 Marks: Semester End Examination 70 Marks
 Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	The Community: Definition, concept and characteristics of a community, Structure and Organisation of different types of communities tribal, rural and urban nature & inter-relationship of socio-economic and political influences and different communities, norms and prevalent, customs of different communities.	09 Hours	14
Unit -2	Social Groups & Organisation: Concepts, types, characteristics of different social groups, interests, attitudes and motivation for affiliation, Dynamics of social group interaction in different types of communities- Family and kinship group, class and class based groups, interest groups and associations.	09 Hours	14
Unit -3	Dynamics of change in community: Social organization –Family, school, co-operatives and other organisation & their role in community, Factors contributing to change and transition in the structure & organization of societal institutions, historical and contemporary situation, Religion, Socio-political ideologies, imperialism, mass media and communication globalization and their impact on community, Planned change concept solution and changes in the concept of planned social change, People's participation, concept, types and barriers to participation in bringing about social change, based on analysis of participation for development.	09 Hours	14
Unit -4	Organisations in Development: Theories of development, people centered development, factors contributing to paradigm shift, Organisations involved in development, government, corporate and voluntary sector organizations, Analysis of their present rule, future potential in facilitating development's inter sectoral synergy, importance and operation allegation.	09 Hours	14
Unit -5	Community Leadership: Concept, leadership, theories, patterns and characteristics of leaders in different communities, Leadership in different organization involved in development inter sectoral gender based analysis, Role of leadership in community development.	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. A guide to self-reliant participatory development-Burkey stan.
2. Organisations & Development strategies & process-Dale R.
3. Making a difference: NGO'S & Development in changing world- by Edwards & Hulme.
4. Understanding Organisation-Handy C. B.
5. People centred development getting to the 21st Century-Korten D.C.



Paper No: 05 PRACTICAL

Marks: **50Marks**

Credits: **02**

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Sugar cookery – Gystalisation	06 Hours	10
Unit -2	Uses of Flour & Flour mixture in Indian cookery. Bread making	06 Hours	10
Unit -3	Vegetables: Changes during cooking	06 Hours	10
Unit -4	Fats & oils: Emulsions	06 Hours	10
Unit -5	Fruits: Raw and cooked	06 Hours	10

Per Unit – Per Practical = 2 Hours



M.A. (HOME SCIENCE)
SEMESTER – II

Paper No: 06 FOOD AND NUTRITION – II (APPLIED NUTRITION)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	The role of food in relation to health and individual, nutritive quality, digestibility and sanitary quality	09 Hours	14
Unit -2	Palatability of food and measurement of its acceptance, sensory-testing-appearance, smell, test etc. objective testing, density, volume tenderness, tension, viscosity, weight, moistureless, etc.	09 Hours	14
Unit -3	1 Nutritional status of the people in India 2 Causes of malNutrition in India 3 Possible methods of eradication in malNutrition and Nutrition education	09 Hours	14
Unit -4	1 Applied Nutrition programme in India 2 Role of voluntary agencies in Applied Nutrition programme.	09 Hours	14
Unit -5	Supplementary feeding programme in India, Balwadi feeding programme, mid-day meal and special programme for pregnant and lactating women.	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. Applied Nutrition – R. R. Rajlaxmi
2. Human Nutrition principles & applications in India – Sumati R. Mudambi
3. Poshan Avam poshahar – Mangla Kango
4. Aahar Ayojan – Hina Shah, Daxa Solanki
5. Meal Planning – Dr. Vrinda Sinh
6. Manav Poshan – Ushakant Vaidya



Paper No: 07 HOME MANAGEMENT – II (FAMILY AND FAMILY RESOURCE MANAGEMENT)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Family 1 Meaning and Definition of Family 2 Characteristics of Family 3 Functions of Family	09 Hours	14
Unit -2	Concepts of Family life cycle stages 1 Analysis of Family life cycle into stages ♣ Beginning Family ♣ Expanding Family ♣ Contracting Family 2 Demand of Major and Resources in Different stage of Family life cycle ♣ Time ♣ Energy ♣ Money	09 Hours	14
Unit -3	Family wants 1 Meaning of Family wants 2 Factors affecting of Family wants 3 Characteristics of wants 4 Classification of wants	09 Hours	14
Unit -4	Family Resource Management 1 Importance of Family Resources 2 Classification of Family Resource 3 Characteristics of Resource 4 Principles of use of Resource 5 Factors Affecting Family Resource	09 Hours	14
Unit -5	Standard of Living 1 Definition of standard of Living 2 Factors Affecting standard of Living 3 Causes of poor standard of living of India 4 Measures to increase standard of living	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. Family Resource Management – Dr. Brindasnihi
2. Home Management and Interior Decoration - Dr. Brindasnihi
3. Management in Family Living – Nickel and Dorsey
4. Gruh vyavastha, awas and gruh sajja – Dr. Katharin S. Snih



Paper No: 07 HOME MANAGEMENT – II (FAMILY RESOURCE MANAGEMENT AND INTERIOR DECORATION) (ELECTIVE)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Family Resource Management: Time Management: Time Demands during different stages of Family life cycle, Meaning of Time Management, Process of managing time Planning of time, Controlling the time plan in action, Evaluation of time plan	09 Hours	14
Unit -2	Energy Management Energy demands in different stages of Family life cycle, Meaning of Energy Management, Process of Energy Management Planning the use of Energy, Control in carrying out activity plan, Evaluation of energy Management	09 Hours	14
Unit -3	Money Management Meaning of money Management, Definition of saving , Need and importance of saving, Factors of determining saving , Meaning of investment , Advantage and disadvantage of investment	09 Hours	14
Unit -4	Interior Decoration Design Meaning and Types of Design, Structural Design: A characteristics of structural design, Decorative design: Meaning and importance of decorative design, Judgement of good design	09 Hours	14
Unit -5	Plants decoration in the home 1 Use of dry fruits, flowers, and leaves in interior home decoration Home decorative plants 2 Bonsie plants	09 Hours	14

Break up of Continuous Internal Evaluation:

1. Assignment	10 Marks
2. Seminar	10 Marks
3. Test	<u>10 Marks</u>
Total Marks	30 Marks

Reference / Text- Books/ Additional Reading:

1. Principles of Arts and Interior Home Decoration – Dr. Brindasnih
2. Home Management and Interior Decoration - Dr. Brindasnih
3. Gruhprabandh, sadhanvyastha and antarik sajja – Dr. Rina Khanuja
4. Gruh vyavastha, Awas and Gruh sajja – Dr. Katharin S. Snih



Paper No: 08 CHILD DEVELOPMENT

Marks: 100Marks
Marks: Semester End Examination 70 Marks
Continuous Internal Evaluation 30 Marks

Credits: 03

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	The development of personality - Meaning and Definition of personality - Types of personality - Factors that Influence of personality	09 Hours	14
Unit -2	Mental Development and Intelligence - Definition of Intelligence - Types of Intelligence - Measurement of Intelligence	09 Hours	14
Unit -3	Intelligence - Factors That Influence of Intelligence - Can intelligences be improved by deliberate efforts?	09 Hours	14
Unit -4	Development of the Arts Inter communication - The development of speech patterns - The development of reading ability - The development of written expression	09 Hours	14
Unit -5	Development of Emotional Behavior - Bases of Emotional Behavior - Emotion constructive or Destructive - Emotional Maturity the positive Development of Emotion - Fear, anxiety, anger, jealousy in children	09 Hours	14

Break up of Continuous Internal Evaluation:

1. Assignment	10 Marks
2. Seminar	10 Marks
3. Test	<u>10 Marks</u>
Total Marks	30 Marks

Reference / Text- Books/ Additional Reading:

1. Child Development and Adjustment a study of child psychology – Lester D. Crow and Alice Crow
2. The child Development – Don C. Dinkmeyer
3. Adolescent Development – Elizabeth B. Hurcock
4. Development psychology – Elizabeth B. Hurcock



Paper No: 09 ADULT EDUCATION AND DISTANCE EDUCATION

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Adult Education in general & in Home science Different Educational systems , Montessori, Kinder gaiter, Basic Education & Examination Method, Different stages of Education (A) Pre-Primary, (B) Primary, (C) Lower secondary, (D) Higher secondary, (E) University Education History, structure, importance & problems of different stages in Education	09 Hours	14
Unit -2	Concept of Extension Education Meaning of Extension Education, Characteristics of Extension Education Major Elements of Extension process, Basic philosophy of Extension Education, Principles of Extension Education, Effect of Extension Education – A social change	09 Hours	14
Unit -3	Extension Teaching and Learning 1 Principles of Extension Learning 2 Teaching plan selection and organizing subject matter 3 Approaches and Extension Teaching & Learning 4 Points of the considered while extension teaching	09 Hours	14
Unit -4	Extension Education in community Development 1 Meaning of community Development programme 2 General Directive of community Development 3 Brief history of community development 4 Administration of community development 5 Obstacles in community development 6 Specific programmes eg. A.N.P., Family planning, I.C.D.S.	09 Hours	14
Unit -5	1 Use of computer Technique in research 2 Use of internet in Education	09 Hours	14

Break up of Continuous Internal Evaluation:

1. Assignment	10 Marks
2. Seminar	10 Marks
3. Test	<u>10 Marks</u>
Total Marks	30 Marks

Reference / Text- Books/ Additional Reading:

1. Extension Education in community Development – Ministry of Food & Agriculture, govt. of India
2. Audio visual Materials & Techniques – Kinder J. S.
3. The principles & Methods of Teaching – Bhatia & Bhatia
4. Education & communication for Development – Dahama O.P. & Bhatnagar O.P.
5. A Handbook of Education Extension – Chaubey B. K.



M.A. (HOME SCIENCE)
SEMESTER – III

Paper No: 10 FOOD AND NUTRITION – III (ELEMENTARY STUDY OF NUTRIENTS- I)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Carbohydrates 1 Structure of carbohydrates 2 Types and Importance of carbohydrates 3 General Description and Reactions	09 Hours	14
Unit -2	Lipids 1 Importance of Lipids 2 Structure of Lipids 3 Types of lipids- Neutral, phospholipids and sterol	09 Hours	14
Unit -3	Proteins and Amino Acids 1 Importance and structure of protein 2 Classification of proteins 3 Types of Amino Acids 4 Denaturation of proteins	09 Hours	14
Unit -4	Minerals and vitamins 1 Importance and types of Minerals and vitamin in brief. 2 Interrelationship between Minerals and vitamins	09 Hours	14
Unit -5	Metabolism 1 Carbohydrates 2 Lipids 3 Protein and Amino Acids	09 Hours	14

Break up of Continuous Internal Evaluation:

1. Assignment	10 Marks
2. Seminar	10 Marks
3. Test	<u>10 Marks</u>
Total Marks	30 Marks

Reference / Text- Books/ Additional Reading:

1. History of Nutrition – McCollum
2. Nutrition in India – Patwardhan
3. Nutritional Improvement of Life – Shernanul
4. Normal & Therapeutic Nutrition – Puodfit & Robinson
5. Human Nutrition and Diet – Aridson, Maikjohn
6. Physiology and Biochemistry – Booves & Kiddeu
7. Text Book of Biochemistry – Roger & Williams



Paper No: 10 FOOD AND NUTRITION – III (FOOD PACKAGING) (ELECTIVE)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Packaging – concept, definition, significance, classification	09 Hours	14
Unit -2	Packaging – Development, unit/retail.	09 Hours	14
Unit -3	Packaging of foods- fresh & processed, general characteristics & food preservation	09 Hours	14
Unit -4	Primary packaging Media – properties and applications. A Paper boards, metals, plastics, wood & plywood, glass, flexible etc. B Labels caps & closures & wads, adhesive inks & lacquers, cushioning materials, reinforcements etc.	09 Hours	14
Unit -5	A. Testing & evaluation of packing media- retail packs (including shelf life evaluation) and transport packages. B Packaging systems and methods for food products – vaccum packaging, gas flush, packaging, CAP & MAP aseptic & retort packing bag in box etc. C Food products – General classification & packing types, varieties and trends. D Food Marketing and role of packaging	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. Food packing – Sacharow & Griffin
2. Food & packaging Iteration – Hotchikess
3. Principals & Applications of MAP – Academic & professions – Darry & Blackie
4. Food industry & The Environment – Dalzett J. M.
5. Food packaging Technology – Burequ of G. & Multou



Paper No: 11 HOME MANAGEMENT – III (FAMILY HOUSING)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Housing Needs: An Introduction 1 Meaning and Definition of Housing 2 Importance and need of Housing for Family 3 Objectives of House construction and way to Acquire House 4 Different Between Home and House	09 Hours	14
Unit -2	Planning of Build a House 1 Selection of site 6 Proper ventilation 2 Selection of land 7 Arrangement of water 3 Orientation 8 Arrangement of electricity 4 Structure of house 9 Sanitation Facility 5 Foundation	09 Hours	14
Unit -3	Principles of House construction of planning 1. Cost/economics expenditure, Expressiveness, Functionalism, Beauty, Privacy, Flexibility, Roominess Grouping of Rooms, Furniture Arrangements, Traffic Lanes, Prospects 2. Factors Affecting of House construction planning	09 Hours	14
Unit -4	Building Materials Importance and Need of Building Materials, Various Types of Building Materials	09 Hours	14
Unit -5	Housing condition Housing condition in India, Housing problems in India, Affective Factors of Housing problems, Suggestions for Improvement of Housing, Clenning of House and its safety	09 Hours	14

Break up of Continuous Internal Evaluation:

1. Assignment	10 Marks
2. Seminar	10 Marks
3. Test	<u>10 Marks</u>
Total Marks	30 Marks

Reference / Text- Books/ Additional Reading:

1. House its use of plan – Agan
2. Modern Ideal Homes For India – R.S. Deshpande
3. Planning a House – Faulkner S.
4. Awas – Dr. Smt. Vina Gandotra, M. Sukla, A Divetia
5. Gruhvyavastha no parichay – Madhu Thakkar
6. Inside Todays Home – Faulkner R and Faulkner S.
7. Family finance – Bigow and Harword



Paper No: 12 RESEARCH METHODS

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Introduction to Research 1 Meaning purposes of Research 2 Importance of Research in Home science Education	09 Hours	14
Unit -2	Choice of a research problem and formulation of the problem. Selection of a problem area	09 Hours	14
Unit -3	Organizing a Research project 1. Methods of data collection: Observation, Interview, Questionnaire, Historical documents, Records, census Reports, Projective Techniques 2. Statement of The Research problem 3. Operational definitions of terms 4. Assumptions of Hypotheses 5. Selection of variables 6. Scaling and Measurement of variables 7. Reliability and validity 8. Sampling 9. Analysis Interpretation of Data Coding, tabulating and computing	09 Hours	14
Unit -4	Designs of Research projects	09 Hours	14
Unit -5	Styles in Research Report writing Use of dictionary and library	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. Methods in social Research – Good and Hatt
2. Samajik sarvekshan and shodh (Hindi) – Ravindranath Tagore, Saraswati Sadan
3. Samajik sanshodhan ni paddhatio – (Gujarati) – J.K.Dave And A.G.Shah
4. Sanshodhan Design – Dr. Vimal P. Shah



Paper No: 13 CLOTHING AND TEXTILE (TEXTILES AND TESTING)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Polymers ♣ Definition and Types of polymers ♣ Polymerization process	09 Hours	14
Unit -2	Fine structure of Fibers ♣ Degree of crystallianity ♣ Degree of polymerization ♣ Degree of orientation ♣ Degree of x ray defraction	09 Hours	14
Unit -3	Special Finishes Applied to Fabrics ♣ Water proofing ♣ Spot and stain resistance ♣ Weighting	09 Hours	14
Unit -4	Physical Testing ♣ Physical Testing of Textile yarn ♣ Crimp, strength, everness, density, specific gravity	09 Hours	14
Unit -5	Importance of Different tests of Textile Fabrics ♣ Colour Fastness ♣ Dimensional stability ♣ Abrasion, moisture content	09 Hours	14

Break up of Continuous Internal Evaluation:

1. Assignment	10 Marks
2. Seminar	10 Marks
3. Test	<u>10 Marks</u>
Total Marks	30 Marks

Reference / Text- Books/ Additional Reading:

1. Textile Design and colour – Watsons
2. Fundamental of Textiles and Their care – Susheela Dantiyagi
3. Advanced Textile Design – Watsons
4. Textile science – E.P.C. Gohl & L.D.Vilensky
5. An Introduction to Textile Finishing – J.T Marsh
6. Fibers and Fabrics – Brenda Piper
7. Vastra vighyan avam paridhan – Dr. Vrundasingh (Hindi)
8. Tantu se vastra – Poter And Karbmen (Hindi)
9. Vastra vighyan avam paridhan – Dr. Pramila Varma (Hindi)
10. Vyavharik vastra vighyan – Gita Pushpa Sho, Joyesh Shila Sho
11. Manav sarjit vastratantuo – Padmakant R. Shah (Gujarati)



Paper No: 14 PRACTICAL

Marks: **50Marks**

Credits: **02**

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Identification of Fibers by physical Test	7 Hours 30 Min.	10
Unit -2	Identification of Fibers by microscopic	7 Hours 30 Min.	10
Unit -3	Identification of Fibers by burning	7 Hours 30 Min.	10
Unit -4	Assignment	7 Hours 30 Min.	20

Per Unit – Per Practical = 2 Hours



M.A. (HOME SCIENCE)
SEMESTER – IV

Paper No: 15 FOOD AND NUTRITION – IV(ELEMENTARY STUDY OF NUTRIENTS- II)

Marks: 100Marks Credits: 03
Marks: Semester End Examination 70 Marks
Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Enzymes History of enzymes, action, common enzyme properties, activity, measurements, nomenclature, classification, enzyme inhibition	09 Hours	14
Unit -2	Nucleic acids Pyrimidine and purine base nucleotides polynucleotide, structures, nucleotide derivatives	09 Hours	14
Unit -3	Hormones	09 Hours	14
Unit -4	1 Electrolytes 2 Acid basis and buffers PH value	09 Hours	14
Unit -5	Food toxins	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. Preyogamk randhankala – Dr. Umaben Patel
2. Technology of food preservation – Norman V. Desrosier
3. Food poisoning & food hygiene – Hobbs & Roberts
4. Dairy lipids & lipids metabolism – Brink & David
5. Milk pasteurization – Hall & Trout
6. Outlines of bio chemistry – Conn & Stumph
7. Food & the principles of nutrition – Singler & Holling Sworth



Paper No: 16 HOME MANAGEMENT – IV (INTERIOR HOME DECORATION)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	House decoration 1 Meaning and definition of House Decoration 2 Objectives of House Decoration 3 Style of House Management and Decoration 4 Relationship between Architecture and Interior Decorator 5 Current Trends to Interior Design	09 Hours	14
Unit -2	Accessories Arrangement in House Decoration 1 Meaning and Importance of Accessories Arrangement 2 Importance of Elements of Arts in Accessories Arrangement 3 Types of Accessories in Brief	09 Hours	14
Unit -3	Home Decoration 1 Factors Affecting the Arrangement of background 2 Floor Decoration ♣ Materials for floor decoration ♣ Rugs and carpets	09 Hours	14
Unit -4	Decoration of wall 1 Materials used for Interior Decoration of wall 2 Types of wall papers 3 Advantages and Disadvantages of wall paper	09 Hours	14
Unit -5	Decoration of window 1 Curtain Aims 2 Selection of curtains 3 Design, structure and weaving of curtain 4 Types of curtains and drapery 5 Curtains decoration in various rooms	09 Hours	14

Break up of Continuous Internal Evaluation:

1. Assignment	10 Marks
2. Seminar	10 Marks
3. Test	<u>10 Marks</u>
Total Marks	30 Marks

Reference / Text- Books/ Additional Reading:

1. Principles of Arts and Interior Home Decoration – Dr. Brindsinh
2. Gruhprabandh, sadhanvyastha and antarik sajja – Dr. Rina Khanuja
3. Home Decoration
4. Home Management and Interior Decoration – Dr. Brinasinh
5. Gruhvyavstha, awas and grusajja – Dr. Katherin S. Shih



Paper No: 17 STATISTIC

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Introduction to statistic 1 Meaning, Definition and Importance of statistical Method in scientific Research 2 Application of relevant sampling procedures in the areas of Food science, Home Management, child Development, clothing and Textiles and home science Education and Extension 3 Use of Mean, Mode and Median statistical concepts	09 Hours	14
Unit -2	Measure of central Tendency Use of common statistical Means i.e. Range, Mean, Frequency, curves etc.	09 Hours	14
Unit -3	Use of the students Test	09 Hours	14
Unit -4	Analysis of variance	09 Hours	14
Unit -5	Simple correlation and coefficient	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. Methodology and Techniques of social Research – P.L.Bhandarkar And T.S. Wilkinson
2. Common problems proper solution – J.S. Long
3. Research Methods and Measurements in Behavioural and social science – G.L. Bhatnagar



Paper No: 17 ENTREPRENEURSHIP DEVELOPMENT AND INTRODUCTION TO COMPUTER (ELECTIVE)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Introduction: Definitions of basic concept: entrepreneurs, entrepreneurship, enterprise their inter –relationship self Employment, Qualities and Responsibilities of a good Entrepreneur, Employment status of women in India, categories of Employment, problems, Importance and need for self Employment, Types of Business and their functions, Principles and Techniques of Managing staff in an organization, Principles of Economics with reference to small scale business/enterprise	09 Hours	14
Unit -2	Agencies promoting self Employment: Sources of Funding loan appraisal objectives, terms and conditions, Assistance given by – RBI, IDBI, ICICI, SFCIFC, SIDBI, DIC, KVIC, commercial banks, cooperative banks, central social welfare board, khadi village industries board, sarvoday sangh, rural Development programme, training of rural youth in self, Employment (TRYSEM), small industries service, institute, state industrial investment corporation, small industries development corporation, marketing agencies such as government emporium, development of women & children's for rural development (DWCRA)	09 Hours	14
Unit -3	Putting up project proposals: Application forms, Viable project proposal, Processing of proposal, Licenses, quota etc., Registration, security (guarantee) required, Factors influencing viability	09 Hours	14
Unit -4	Introduction to computers: Computer and IT: introduction theoretical concepts, Window based programs, word, excel, power point, foxpro, Application of computers in the difficult areas of home science	09 Hours	14
Unit -5	Marketing and record keeping through computer: Marketing infrastructure available techniques of advertising and salesmanship, maintaining and improving students, standardization and export promotion, Book keeping and accounting through computer, meaning of the concepts, simple book keeping & accounting maintenance of essential records, Auditing sales tax how to calculate and procedures for payment calculation of profit & losses, working out a balance sheet	09 Hours	14

Break up of Continuous Internal Evaluation:

- | | |
|--------------------|-----------------|
| 1. Assignment | 10 Marks |
| 2. Seminar | 10 Marks |
| 3. Test | <u>10 Marks</u> |
| Total Marks | 30 Marks |

Reference / Text- Books/ Additional Reading:

1. Entrepreneurship Development volume 1,2,3 – Vasant Desai
2. How to start own small scale Industries – Shoruea G. D.
3. Encyclopedia of Entrepreneurship – Calvin A. K.
4. Dhandhakiy vyavstha – Manubhai Shah
5. Women's employment possibilities of Relevant Research Institute of social studies – Jain D.



Paper No: 18 CLOTHING AND TEXTILE-II (TEXTILE PROCESS)

Marks: 100Marks

Credits: 03

Marks: Semester End Examination 70 Marks

Continuous Internal Evaluation 30 Marks

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Spinning Different spinning process in the Manufacture of Man Made Fabrics, Wet spinning , Dry spinning , Melt spinning	09 Hours	14
Unit -2	Textile yarns Types of yarns, Use of yarns	09 Hours	14
Unit -3	Texturized yarns Methods of Texturized yarns, Use of Texturized yarns	09 Hours	14
Unit -4	Limited and Bonded Fabrics Process of Limited Fabrics, Process of bonded fabrics, Process of felt fabrics	09 Hours	14
Unit -5	Knitting History of knitting, Types of knitting, Use of knitting Fabrics	09 Hours	14

Break up of Continuous Internal Evaluation:

1. Assignment	10 Marks
2. Seminar	10 Marks
3. Test	<u>10 Marks</u>
Total Marks	30 Marks

Reference / Text- Books/ Additional Reading:

1. Textile Design and colour – Watsons
2. Fundamental of Textiles and Their care – Susheela Dantyagi
3. Advanced Textile Design – Watsons
4. Textile science – E.P.C. Gohl & L.D.Vilensky
5. An Introduction to Textile Finishing – J.T Marsh
6. Fibers and Fabrics – Brenda Piper
7. Vastra vigyan avam paridhan – Dr. Vrundasingh (Hindi)
8. Vastra vigyan avam paridhan – Dr. Pramila Varma (Hindi)
9. Vyavharik vastra vigyan – Gita Pushpa Sho, Joyesh Shila Sho
10. Manav sarjit vastratantuo – Padmakant R. Shah (Gujarati)



Paper No: 19 PRACTICAL

Marks: **50Marks**

Credits: **02**

Unit	Detailed Syllabus	Teaching Hours	Marks / Weight
Unit-1	Various types of Tie and Dye	15 Hours	10
Unit -2	Dying yarns with various Fabrics	15 Hours	10
Unit -3	Field Trip	---	10
Unit -4	Assignment	---	20

Per Unit - Practical = 2 Hours