



પરિપત્ર:

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટીની આર્ટસ વિદ્યાશાખાનાં અભ્યાસક્રમ ચલાવતી તમામ સંલગ્ન કોલેજોનાં આચાર્યશ્રીઓને સવિનય જણાવવાનું કે આર્ટસ વિદ્યાશાખા હેઠળનો અંતર્ગતનો હોમ-સાયન્સ વિષયનો (એમ.એ હોમ-સાયન્સ) સેમેસ્ટર-૩ અને સેમેસ્ટર-૪ નો અભ્યાસક્રમ આ સાથે સામેલ છે.

માનનીય કુલપતિશ્રીની મંજૂરી અનુસાર સદર અભ્યાસક્રમ શૈક્ષણિક વર્ષ જુન, ૨૦૨૪ થી અમલવારી કરવાની રહે છે. આર્ટસ વિદ્યાશાખાનાં અભ્યાસક્રમ ચલાવતી તમામ સંલગ્ન કોલેજો ધ્વારા તેની અમલવારી કરવા જણાવવામાં આવે છે.



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21/06/2024

ખાસ ફરજ પરના અધિકારી
(એકેડેમિક)

ક્રમાંક/બીકેએનએમયુ/ એકેડેમિક/૭૪૦/૨૦૨૪

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી,

સરકારી પોલીટેકનિક કેમ્પસ,

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી રોડ,

ખડીયા, જૂનાગઢ-૩૬૨૨૬૩

તા.૨૧/૦૬/૨૦૨૪

પ્રતિ,

- ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી સંલગ્ન આર્ટસ વિદ્યાશાખાનાં અભ્યાસક્રમો ચલાવતી તમામ કોલેજોના આચાર્યશ્રીઓ તરફ....

નકલ સાદર રવાના:-

- માન.કુલપતિશ્રી/કુલસચિવશ્રીનાં અંગત સચિવશ્રી.
- પરીક્ષા નિયામકશ્રી, ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી, જૂનાગઢ

નકલ રવાના જાણ તથા યોગ્ય કાર્યવાહી અર્થે:

- સીસ્ટમ મેનેજરશ્રી, આઈ.ટી.સેલ વિભાગ (વેબસાઇટ ઉપર પ્રસિદ્ધ થવા અર્થે.)



BHAKTA KAVI NARSINH MEHTA UNIVERSITY JUNAGADH



BOARD OF **HOME SCIENCE** STUDIES
FACULTY OF **ARTS**
SYLLABUS FOR
MASTER OF ARTS PROGRAMME
(SEMESTER- III & IV)
EFFECTIVE FROM JUNE, 2024

Preamble

Home Science has contributed a great deal towards national development by training students to take up leadership roles in extension and community outreach programs. The students are encouraged to develop a scientific temper. Familiarizing them with the use of newer technologies, method in family and community linkages, and sustainable use of resources for human development are the hall mark of education in Home Science. As a discipline Home Science integrates the ingredients of the sciences, social sciences and technology to facilitate the study of and enhance the quality of human life. Its approach is therefore inherently interdisciplinary. Traditionally, Home Sciences has adopted an ecological approach in its curriculum that engages the student through teaching, research and extension. The education process in Home Science underscores the importance of the individual's dynamic relationship with his/her family, community and society as a whole, as well as with the resources in the environment. Higher education learning in Home Sciences subjects provides students the opportunity to sharpen their capacities with a sense of social responsibility.

In contemporary times, Home Scientists promote capacity building of individuals and communities for social and economic empowerment. They train community women and youth from various strata of society for entrepreneurship. Many Home Scientists have done exceptionally well as entrepreneurs themselves. They do not remain job seekers but have also become job creators. They gain and provide employment in research organization, food and textile industries, dietetic practice, education and child development domains, accreditation of green buildings, strategic planning and communication technology. Keeping in view the growing aspirations of today's youth and the capacity of Home Science discipline to deliver, the present 3-year Choice Based Credit System curriculum has been drawn up.

Years of national and international experiences in the field has contributed to the wisdom that all the five windows of opportunity that Home Science offers be opened for i.e. Food and Nutrition, Human Development and childhood Studies, Resource Management and Design Application, Development Communication and Extension and Fabric and Apparel Sciences, In this course, the students will learn the fundamental principles and foundations of all the five areas. They are expected to internalize the principles of a Home Scientists, that is, to give back to the community from which they draw, for sustainable development. This is a major contribution of Home Science in both development and developing societies.

The University Grants Commission's model curriculum of Home Science in both developed and developing societies.

The objectives of the M.A. Home Science General course are:

- To understand and appreciate the role of interdisciplinary sciences in the developing and well-being of individuals, families and communities
- To learn about the sciences and technologies that enhance quality the life of people
- To acquire professional and entrepreneurial skills for economic empowerment of the student in particular, and community in general
- To develop professional skills in food, nutrition, textiles, housing, product making, communication technologies and human development
- To take science from the laboratory to the people

Structure of Programme

- **M.A.** Programme consists in **Four** semesters.
- There will be **Three** types of courses.

1.	Core Courses	CCT	12
2.	Elective Courses	ECT	06
3.	Interdisciplinary Courses	ICT	02
		Total	20

- For each semester the hours per week and credit will be assigned as under:

Semester	Courses	Hours	Credits
I	05	27	25
II	05	27	25
III	05	27	25
IV	05	27	25
TOTAL	20	108	100

- The entire programme will contain 20 courses, 100 credits and 108 hours classroom work.

Structure of Examination & Marking System

Total Marks / Paper = 100

- Marks assigned and its division into
 - (1) External Exam = 70 Marks
 - (2) Internal Exam = 30 Marks
 - (3) Practical Exam = 20 marks
- In the paper with practical work, the external marks divided
 - External Marks : Theory Exam : 50
 - Practical Exam : 20
 - Internal : 30
- Marking scheme for External Examination = 70 Marks

SrNo	Type of Question	Que. No		Marks	
		Theory	Practical	Theory Sub.	Practical Sub.
1	Long Question (T.04, P.03) Short Note	04	03	04 x 14=56	03 x 14=42
2		02	02	02 x 07=14	02 x 04=08
					70
(Each with internal option)			Time:	2:30 hours	2:00 hours

- Marking scheme for Internal Exam = 30 Marks

1.	Assignments	10 Marks
2.	Written/ M.C.Q Test	10 Marks
3.	Seminar Presentation OR Written M.C.Q Test	10 Marks

- Marking scheme for Practical Exam = 20 Marks

1.	Journal	05 Marks
2.	Practical Work	10 Marks
3.	Viva	05 Marks

- Duration of Practical Exam: 2:30 Hours
- Duration of Theory Exam: 70 Marks – 2:30 Hours
50 Marks – 2:00 Hours

BHAKTA KAVI NARSINH MEHTA UNIVERSITY**Syllabus of M.A.****Faculty of Arts****Effective from June 2024****Subject: Home Science****SEMESTER-III****SUMMARY OF THE SYLLABUS**

No	Course Code	Paper No.	Name of Course	Credit			Teaching Hours
				Theory	Practical	Total	
1	CCT – 07	301	Food Science-I	5	0	5	5
2	CCT – 08	302	Housing & Space Management	3	2	5	7
3	CCT – 09	303	Clothing & Textile - II	5	0	5	5
4	ECT – 05	304	Child Psychology	5	0	5	5
	OR						
	ECT – 05	304	Food Microbiology, Hygiene and Sanitation	5	0	5	5
5	ICT – 01	305	Family & Community Science Education- I	5	0	5	5
	OR						
	ICT - 01	305	Child & Human Rights	5	0	5	5
					Total	25	27

BHAKTA KAVI NARSINH MEHTA UNIVERSITY**Syllabus of M.A.****Faculty of Arts****Effective from June 2024****Subject: Home Science****SEMESTER-IV****SUMMARY OF THE SYLLABUS**

No	Course Code	Paper No.	Name of Course	Credit			Teaching Hours
				Theory	Practical	Total	
1	CCT-10	401	Food Science-II	5	0	5	5
2	CCT-11	402	Interior Designing & Furnishing	5	0	5	5
3	CCT-12	403	Traditional Embroidery of India & World Embroidery	3	2	5	7
4	ECT -06	404	Child Development	5	0	5	5
	OR						
	ECT -06	404	Clinical and Therapeutic Nutrition	5	0	5	5
5	ICT -02	405	Family& Community Science Education-II	5	0	5	5
	OR						
	ICT -02	405	Ecology & Environment	5	0	5	5
					Total	25	27

SEMESTER-III

Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	III	Practical Internal	-
Category of Course	Core	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	CCT-07	Exam Duration	2:30
Course Title	Food Science-01		

Theory:

Unit	Title	Hours
Unit - I	Metabolism of carbohydrates, Protein and lipids	15
Unit – II	Enzyme • Enzyme Properties and importance • Factors affecting on activity of enzyme • Types of enzymes • Working method of enzyme	15
Unit - III	Food toxins	15
Unit - IV	Food adulteration • Why, How and When is food adulterated	15

	• Common adulterants in food and their effects on health • Common household methods to detect adulterants in food	
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References Books:

1. Eagn, Kirk and Sawyer (1981), Pearson's Chemical analysis of food, 8th Ed.
2. “Rasoda Prayogpothi”, Gijubhai bharad, pradeshik lokvigyan Kendra, Rajkot–2001
3. Food Science by Dr. Brunda Singh, Shyam Prakashan, Jaipur
4. Fundamentals of foods and nutrition by Prof. Nilamben Buddhadev and Bhavna Vaid (2004), Pravin Prakashan, Rajkot
5. Human Nutrition and deit Aridson, Molke John and Fasemore
6. Nutrition in India - Patwardhan
7. Physiology and biochemistry Boovae and Kidder
8. Nutrition Science, Sangita Gautam, Srishti Book distributors, New Delhi, 2007

Web Reference:

1. www.foodscience.com

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Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	50
Semester	III	Practical Internal	-
Category of Course	Core	Practical External	20
Course Credit	05	Prac. External Exam Duration	2:30
Teaching Hours	-	Total	100
Course Code	CCT-08	Exam Duration	2:00
Course Title	HOUSING & SPACE MANAGEMENT		

Theory:

Unit	Title	Hours
Unit - I	Housing • Definition • House need • Affecting factor	15
Unit – II	A. Selection of site • Orientation • Zoning B. House planning according to Vastu Shastra C. Green house	15
Unit - III	Information about quality of building materials • Bricks • Building • Stone • Cement • Lime Timber • Iron & Other metals	15

Unit - IV	Rules and laws for house construction • Exterior open space • Foundation • Plinth level • Lintel Wall • Floor • Doors and Windows • Water, Light, Drainage management	15
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Practical	
1.	House planning according to Vastu Shastra
2.	Different types of Kitchen plan (Any three)
3.	Modular Kitchen

References Books:

1. Rutot, Anna and Hongl, "Home furnishing".
2. R.S. Der, "Modern ideals homes for India".
3. Dr. Snehlata, "Home Construction and Furnishing".
4. Dr. Vina Gantroda, Dr. Manisha Shukal and Ami Divatiya, "Awas - Interior "
5. Dr. Bela Bhargav, "Housing and Space management".
6. Dr. Sudha Goyal, "Awas and Home Construction management".

Web Reference:

1. www.yahoo.com

Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	III	Practical Internal	-
Category of Course	Core	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	CCT-09	Exam Duration	2:30
Course Title	CLOTHING & TEXTILE II		

Theory:

Unit	Title	Hours
Unit - I	Clothing & Textile : Introduction • Introduction • Importance of clothes • Importance and Areas of Clothing & Textile • Properties of textile fibers • Structure of the fibers • Textile terminology	15
Unit – II	Yarn Construction • Yarn construction from fibers • Different stages of yarn construction • Types of yarn	15
Unit - III	Fabric Construction • Without the use of fibers • With the use of fibers • With the use of yarn	15
Unit - IV	Finishing of fabrics • Definition of finishing • Objectives of fabric finishing • Types of finishing	15

	- Mechanical finishing - Chemical finishing	
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References Books:

1. Vastra Vigyan Avm Paridhan, Dr. Brindasinh Panchshil Prakashan, Jaipur
2. Textile & Laundry Dr. Vimleshkumari, Discovery Pub. House, New Delhi
3. Textiles and Laundry work, Dr. Bela Bhargav, University book house,Pvt. Ltd., Jaipur
4. Textile & Clothing, Nirja Yadav, Sahitya Prakashan, Agra

Web Reference:

1. www.clothing&textile.com
2. www.clothing.com

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Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	III	Practical Internal	-
Category of Course	Elective	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	ECT-05	Exam Duration	2:30
Course Title	CHILD PSYCHOLOGY		

Theory:

Unit	Title	Hours
Unit - I	The Science of Child Study • Significance of child study • Meaning and definition of child psychology • Prescientific attitudes towards the child • Modern attitudes towards the child • An importance and modern approaches of child study	15
Unit – II	The Exceptional child • Meaning of exceptional child • Types of exceptional child - The physically handicapped child - The mentally deficient - The socially problematic child - The emotionally problematic child • Some suggestion for exceptional child	15
Unit - III	Creative Activity and Play of children • Meaning & definition of play • Importance of play • Physical development • Mental development • Creative development	15

	• Character development • Emerging development • Educational development • Language development • Emotional development Types of play • According to rules & regulation • According to place – space • According to participant According to development • Creative play • Physical play • Mental play • Social play	
Unit - IV	Mental Hygiene and Developing child • Meaning of mental hygiene • Importance of mental hygiene • Characteristics of mental hygiene • Effective factors of mental hygiene • Some behaviour problems • Some suggestion to improve mental hygiene	15

References Books:

1. Developmental Psychology - E. Hurlock
2. Child development & Adjustment : A study of child psychology -L. Growth & Alice
3. The Child Development - D.C. Dinkmeyer
4. Adolescent Development - E. Hurlock
5. Child Psychology - Crow & Crow

Web Reference:

1. www.yahoo.com

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Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	III	Practical Internal	-
Category of Course	Elective	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	ECT-05	Exam Duration	2:30
Course Title	FOOD MICROBIOLOGY, HYGIENE AND SANITATION		

Theory:

Unit	Title	Hours
Unit - I	Brief history of food Microbiology and Introduction to important microorganisms in foods.	15
Unit – II	Fundamentals of control of microorganism in foods.	15
Unit - III	Extrinsic and Intrinsic parameters affecting growth and survivor of Microbes, use of high and low term. Dehydration, Freezing, Freeze - drying, irradiation and preservatives in food preservation.	15
Unit - IV	Importance of Sanitation and Hygiene in foods, kitchen hygiene Employee health, food plant hygiene, food laws.	15

References Books:

1. Frazier, W.C. and Westhoff, D.C. (1988)
Food microbiology, McGraw Hill Inc.
2. Jay James, M. (1986), Modern food microbiology, Van Nostrand Reinhold Company Inc.
3. Benson Harold, Y. (1990) Microbiological applications, Wn, C. Brown Publishers, U.S.A.
4. Peleazar, M.I. and Reid, R.D. (1978) Microbiology, McGraw Hill book company, New York

Web Reference:

1. www.google.com
2. www.foodmicrobiogoly.com

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Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	III	Practical Internal	-
Category of Course	Interdisciplinary	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	ICT-01	Exam Duration	2:30
Course Title	FAMILY & COMMUNITY SCIENCE EDUCATION- I		

Theory:

Unit	Title	Hours
Unit - I	Education of Women in India • Meaning of education • Importance of women education • History of women education in India	15
Unit – II	'Family and Community Science' education in India • Meaning of family and community science • Importance of family and community science • History of family and community science in India	15
Unit - III	Contribution of some educationist in women education in India • Dr. Karve • Raja Rammohan Ray • Durgabai Deshmukh • Gokhale	15
Unit - IV	Educational Objectives of family & community science • Educational objectives for cognitive	15

	• Educational objectives for effective • Educational objectives for psychomotor	
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References Books:

1. Extension education in community development - Ministry of Food and Agriculture, New Delhi.
2. Home science education - G.P. Sherry, Agra
3. Home science : Dr. Vimlesh Kumari, Discovery Pub., New Delhi
4. Home science education : Anita Verma, Vandana Pub., New Delhi
5. Principles and Practice of Educational programming : D.N. Dasgupta, Pointer publishers, Jaipur

Web Reference:

1. www.google.com

Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	III	Practical Internal	-
Category of Course	Interdisciplinary	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	ICT-01	Exam Duration	2:30
Course Title	CHILD & HUMAN RIGHTS		

Theory:

Unit	Title	Hours
Unit - I	Definition and Evolution of Rights • Human Rights • Child Rights • Women's Rights	15
Unit – II	Status of Indian Children and their rights. • Gender disparities (Infanticide, foeticide, girl child) • Children in difficult circumstances (Children of prostitutes, Child-prostitutes.) • Children with special needs.	15
Unit - III	Status of Women and their rights • Status of women in India • Women and human rights	15

	• Forms of Violation of women's rights • 'Violence against women in home, work places and society. • Sexual harassment, rape • Crime against women • Political discrimination	
Unit - IV	Child Labour - meaning National • Child labour policy Education • Approach of Child labour Child • labour - social problem Remedies of • the child labour	15

References Books:

1. Butter worth, D. and Fulmer.A(1993). Conflict control power, perth: Child and Family Consultants.
2. Bruner, T. (1986). Actual Minds - Possible words, London : HarvardUniversity Press.
3. Digumarti, B.R. Digumarti, P.L. (1998), International Encyclopedia of women (Vol. I) New Delhi, Discovery.
4. Dutt S. (1998). Moral values in Child Development, New Delhi: Anmol Santock, J.W. and Yussen. S.R. (1988): Child Development: AnIntroduction.
5. Clarke - Stewart. A. and Friondman, S. (1987). Child Development: Infancy though adolescence. New York, John Wiely.

Web Reference:

1. www.google.com/status ofwomen
2. www.google.com/child right

SEMESTER-IV

Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	IV	Practical Internal	-
Category of Course	Core	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	CCT-10	Exam Duration	2:30
Course Title	Food Science-02		

Theory:

Unit	Title	Hours
Unit - I	Nucleic Acid • Nucleoside like pyrimidine and Purin base. • Nucleotides • Poly Necleotides • Structure of DNA	15
Unit – II	Importance and Inter relationship • Minerals and vitamins • Protein and Calorie • Effect of carbohydrates, Proteins fats on vitamins • Minerals to minerals • Vitamins to vitamins	15
Unit - III	Acids, Bases and Buffers • Properties, types and reactions of acid and base • Properties and Importance of buffers	15

Unit - IV	Meaning and definition of B.M.R. • Standard of judging B.M.R. • Factors affecting on B.M.R.	15
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References Books:

1. "History of Nutrition" McCollum.
2. Nutrition in India – Patwardhan
3. Nutritional improvement of life - Sherman.
4. Normal and therapeutic nutrition, proud fit and Robinsons.
5. Human Nutrition and Diet: Aridson Moikejohn and Passmore
6. Physiology and Biochemistry - Boovae and Kidder.
7. Robinson, C.H. Lawfer, M.R. Chenoweth, W. and Garwick A.E. (1986) Normal and theroperctic Nutrition, 17th Ed., Macmillan Publishing Co.
8. West E.S. Todd, W.R. Mason, H.S. and Van Bruggen, JT. (1974), 4th Ed., Text book of biochemistry, Amerind Publishing Co. Pvt. Ltd.
9. Stryer L. (1995), Biochemistry, Freeman WH and Co.
10. Delvin T.M. (1986), 2nd Ed., Text book of Biochemistry with clinical Correlations, John Wiley and Sons.

Web Reference:

1. [www.food science.com](http://www.foodscience.com)

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Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	IV	Practical Internal	-
Category of Course	Core	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	CCT-11	Exam Duration	2:30
Course Title	INTERIOR DESIGNING & FURNISHING		

Theory:

Unit	Title	Hours
Unit - I	Home decoration • Definition and Meaning • Objectives • Affecting factors • Process of planning	15
Unit – II	Wall and Ceilings decoration • Information • Types • Other Information Floor Decoration • Information • Types • Other Information	15
Unit - III	Furniture Decoration • Information • Types • Other Information	15

	Curtains Decoration • Information • Types • Other Information	
Unit - IV	Flower Decoration • Information • Types • Other Information Lighting Decoration • Information • Types • Other Information	15

References Books:

1. Roberrts Marion, "Assumptions in modern housing design".
2. Deshpande R.S., "Modern ideal homes for India".
3. Againg Tessies, "The house It's plan and use".
4. S.N. Chaudhari, "Interior design".
5. Dr. Reena Khanuja, "Home management Resources management andInterior decoration".
6. Dr. Snehlata, "Home Construction and furnishings".
7. Dr. Bela Bhargav, "Principles of arts and Interior designing".

Web Reference:

1. www.interior designing & furnishing.com
2. www.designing.com

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Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	50
Semester	IV	Practical Internal	-
Category of Course	Core	Practical External	20
Course Credit	05	Prac. External Exam Duration	02:30
Teaching Hours	-	Total	100
Course Code	CCT-12	Exam Duration	02:00
Course Title	TRADITIONAL EMBROIDERY OF INDIA & WORLD		

Theory:

Unit	Title	Hours
Unit - I	Historical tradition of embroidery	15
Unit – II	Techniques of embroidery in India	15
Unit - III	Traditional embroidery of India • Phulkari of Punjab • Chikankari of UttarPradesh • Kashida of Kashmir • Kantha of Bengal • Chamba Embroidery of Himachal Pradesh • Kasuti of Karnataka • Embroidery of Manipur Embroidery of Rajasthan • Embroidery of Gujarat	15

Unit - IV	World Embroidery • Australia • North America • Central & South America • West America • North Africa and the middle east • Central Asia • Bangladesh • Thailand	15
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Practical	
1.	Techniques of embroidery designing on fabrics (Any four)
2.	Samples of Indian Embroidery (Any four)
3.	Samples of World Embroidery (Any two)

References Books:

1. Shailuja D. Naik, "Traditional embroidery of India", A.P.H. Publishing Corporation, New Delhi - 1996.
2. Bhavani Enakshi, "Decorative designs and craft Manship of India", D.B. Taraporewala Sons and Co. Pvt. Ltd., Bombay - 1968
3. Bhavani Enakshi, "Folk and triable Designs of India" Taraporewala Sons and Co. Pvt. Ltd., Bombay - 1974
4. Chatto Padhyay Kamaladevi, "Handi Crafts of India", Indian Council of Cultural relations, New Delhi - 1975
5. Chatto Padhyay Kamaladevi, "Indian embroidery wiley eastern Ltd., New Delhi - 1975
6. Dongerkery Kamala S., "Romance of Indian Embroidery",

Thaker and Co. Ltd., Bombay

7. Joshi Indira, "Kasuti of Karnatak", PopPrakashan, Bombay -1963.
8. Pandit Savitri, Indian Embroidery its Variegated Charms Pandit Savitri, Baroda - 1976
9. Samani Veena Samvat Heena and Pathak Malini, "Dress Designing", Pravin Pustak Bhandar, Rajkot – 2005

Web Reference:

1. www.traditionalembroideryofindia
2. www.embroideryofindiaworld

Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	IV	Practical Internal	-
Category of Course	Elective	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	ECT-06	Exam Duration	2:30
Course Title	CHILD DEVELOPMENT		

Theory:

Unit	Title	Hours
Unit - I	Physical Development • Meaning of physical development • Importance of physical development • General factors of physical development • Affecting factors of physical development	15
Unit – II	Mental Development and Intelligence • Meaning of intelligence • Nature of intelligence • Importance of mental development • Measurement of intelligence • Affecting factors of intelligence	15
Unit - III	Language Development • Meaning of language • Importance of language development • Language development in child • Effecting factors of language development	15

	• Some problems of language	
Unit - IV	Personality Development • Meaning of personality • Characteristics of personality • Development of personality • Measurement of personality • Effecting factors of personality	15

References Books:

1. Developmental Psychology - E. Hurlock
2. Child Psychology - Crow & Crow.
3. The Child Development - D.C. Dinkmeyer

Web Reference:

1. www.childdevelopment.com

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Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	IV	Practical Internal	-
Category of Course	Elective	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	ECT-06	Exam Duration	2:30
Course Title	CLINICAL AND THERAPEUTIC NUTRITION		

Theory:

Unit	Title	Hours
Unit - I	Diet and Nutritional Surveys - Obtaining medical and dietary history of patients - Patient education and counseling	15
Unit – II	Etiology, Symptoms and Dietetic Management in - Renal disorder (Any One) - Liver Disease (Any One) - Blood related disease (Any One)	15
Unit - III	Therapeutic food products - Functional foods like wheat, grass, mashroom, Soyabeen, Barley, Niger seeds (Kala Til), Flax Seed (Alsi), Drumstick leaves - Role of prebiotics and probiotics in health and disease	15

Unit - IV	• Diet in Cancer • Diet in HIV Infection	15
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References Books:

1. Nature Care by H.K. Bakhru
2. Bal Arogya Shansthan by Dr. I.K. Viyohiwada
3. Ritchie A.C. (1990) Boyd's Text book of pathology , 9th Edition, Lea and Fibiger, Philadelphia
4. Guyton A.C. and Hau, J.B. (1999) textbook of Medical Physiology, 9th edition, W.B. Saunders Co.
5. Williams S.R. (1993), Nutrition and diet therapy 7th Edition, Times Mirror/Mosby College Publishing
6. Garrow J.S., James W.P.T. and Ralph, A (2000) Human nutrition and dietitics, 10th edition, onirchil, Living Stone
7. Shills M.E., Olson, J.A. Shike, M. and Ross A.C. (1999) Modern in health and disease, 9th edition, Williams and Wilking.
8. Mohan, L.K. and Diest Escott Stump S. (2000), Krause's food nutrition and diet therapy, 10th edition, W.B. Sounder Ltd.

Journals and other references

1. American Journal of clinical nutrition
2. European Journal of clinical nutrition
3. World review of nutrition and dietitics
4. Journal of the American dietitic Association
5. Nutritional reviews

Web Reference:

1. www.clinicalandtherapeuticnutrition.com

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Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	IV	Practical Internal	-
Category of Course	Interdisciplinary	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	ICT-02	Exam Duration	2:30
Course Title	FAMILY& COMMUNITY SCIENCE EDUCATION-II		

Theory:

Unit	Title	Hours
Unit - I	Curriculum development in family and community science • Meaning and definition of curriculum • Principles of curriculum development • Some suggestion for curriculum development	15
Unit – II	Learning Experience in family and community science • Learning experience for information • Learning experience for thinking • Learning experience for developing interest • Learning experience for developing skills	15
Unit - III	Evaluation in family & community science • Meaning of evaluation • Objectives of evaluation • Evaluation techniques in family & community science - Paper - Pencil test - Projective test - Checklist test - Rating scale test	15

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Subject: Home Science

Unit - IV	Education from Pre-primery to University • Pre-primary education - importance & problems • Primary Education - importance & problems • Secondary - Higher Education (High School Education) - importance & Problems • University Education - importance & Problems	15

References Books:

1. Extension education in community development - Ministry of Food and Agriculture, New Delhi.
2. Home science education - G.F. Sherry, Agra
3. Home science : Dr. Vimlesh Kumari, Discovery Pub., New Delhi
4. Home science education : Anita Verma, Vandana Pub., New Delhi
5. Principles and Practice of Educational programming : D.N. Dasgupta, Pointer publishers, Jaipur

Web Reference:

1. www.CommunityScienceEducation.com
2. www.familyscience.com

Course Level	-	Internal Marks	30
Programme	M.A Home Science	External Marks	70
Semester	IV	Practical Internal	-
Category of Course	Interdisciplinary	Practical External	-
Course Credit	05	Prac. External Exam Duration	-
Teaching Hours	-	Total	100
Course Code	ICT-02	Exam Duration	2:30
Course Title	ECOLOGY & ENVIRONMENT		

Theory:

Unit	Title	Hours
Unit - I	Introduction • Meaning and definition of ecology and environment, scope of the subject, dimensions of environment land, air, water, forest, habitat, population. • Health hazards of domestic waste water pollution, Air pollution and their control	15
Unit – II	Habitat and Population • Uncontrolled population growth and its impact, unplanned growth of cities and towns, migration, problems of housing and essential services, control measures.	15
Unit - III	Environmental Education • Meaning, need and objectives, highlights, role of government, NGOs and educational institutions, national and international agencies.	15
Unit - IV	Environmental Protection • Policies, programmes and legislations	15

References Books:

1. Dowdswell, Elizabeth (1997: Salvaging the Earth: Need for Action. P.20-24 In Environmental crisis and humans at risk: priorities for action. Edited by Sinha, Rajiv K. Ina Shree Publ., Jaipur.
2. Rao, B. Narsimha: Chemical pesticides in human environment: a serious health hazard. P.105-110 In Environmental crisis and humans at risk: priorities for action. Edited by Sinha, Rajiv K. Ina Shree Publication, Jaipur 1997
3. Shastri, Satish & Trivedi, Manjoo Bala (1997): Environmental Laws in India: How Effective It Is. P.277-283 In Environmental crisis and humans at risk: priorities for action. Edited by Sinha, Rajiv K. Ina Shree Publ., Jaipur.
4. Sinha, Rajiv K. (1997): Environmental pollution: the 20th Century Killer. P.49-64 In Environmental crisis and humans at risk: priorities for action. Edited by Sinha, Rajiv K. Ina Shree Publ., Jaipur.
5. Sinha, Rajiv K. (1997): Deforestation and Habitat Destruction: Threat to the Global Ecological Balance. P.65-76 In Environmental crisis and humans at risk: priorities for action. Edited by Sinha, Rajiv K. Ina Shree Publ., Jaipur.
6. Sinha, Rajiv K. & Khinchi, Shyam Sunder (1997): Desertification: the silent eco-crisis of land sterilization and annihilation of human civilization. P.87- 94 In Environmental crisis and humans at risk: priorities for action. Edited by Sinha, Rajiv K. Ina Shree Publ., Jaipur.
7. Sinha, Rajiv K. (1997): Reforesting the earth: an insurance for survival. P.213-227 In Environmental crisis and humans at risk: priorities for action. Edited by Sinha, Rajiv K. Ina Shree Publ., Jaipur.

Web Reference:

1. www.ecology & environment.co