



પરિપત્ર:

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટીની સાયન્સ વિદ્યાશાખાનાં અભ્યાસક્રમ ચલાવતી તમામ સંલગ્ન કોલેજોનાં આચાર્યશ્રીઓને સવિનય જણાવવાનું કે સાયન્સ વિદ્યાશાખા હેઠળનો હોમસાયન્સ વિષયનો (એમએસ.સી.હોમ સાયન્સ) નો સેમેસ્ટર-૧ નો અભ્યાસક્રમ આ સાથે સામેલ છે.

માનનીય કુલપતિશ્રીની મંજૂરી અનુસાર સદર અભ્યાસક્રમ શૈક્ષણિક વર્ષ જુન, ૨૦૨૩થી અમલવારી કરવાની રહે છે. સાયન્સ વિદ્યાશાખાનાં પી.જી.નાં અભ્યાસક્રમ ચલાવતી તમામ સંલગ્ન કોલેજો ધ્વારા તેની અમલવારી કરવા જણાવવામાં આવે છે.



OSD
(Academic)

ક્રમાંક/બીકેએનએમયુ/એકેડેમિક/૧૯૧૪/૨૦૨૩-૨૦૨૪

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી,

સરકારી પોલીટેકનિક કેમ્પસ,

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી રોડ,

ખડીયા, જૂનાગઢ-૩૬૨૨૬૩

તા.૧૭/૧૦/૨૦૨૩

પ્રતિ,

- ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી સંલગ્ન સાયન્સ વિદ્યાશાખાનાં પી.જી.નાં 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 STUDIES (HOME SCIENCE) FACULTY OF SCIENCE SYLLABUS FOR MASTER OF SCIENCE (HOME SCIENCE) PROGRAMME (SEMESTER- I) EFFECTIVE FROM JUNE, 2023

M.Sc. HOME SCIENCE

Syllabus

General Home Science

The specialists in Home science play a vital role in promoting the quality of life of individuals and communities, which contributes significantly to the economic and overall development of the nation. This is achieved through a blend of academics, research training and extension as well as industrial applications. The post graduate programme in this discipline has been designed to provide the students with intensive and extensive theoretical and experiential learning. The programme allows flexibility in the choice of thrust areas, which students can select, based on their career goals. It is envisaged that the current scenario at the regional and national level require trained professionals in areas such Clinical and Therapeutic Nutrition, Extension Management, Apparel Design and Construction, Child and Human Rights, Nutrition for Health and Fitness, Fashion Design.

Aim of the Course

The curriculum integrating several elective courses, besides the core, has been formulated to provide professionally competent manpower for

- a. Academic and research activities*
- b. Hospitals, food service institutions and industries*
- c. Managerial roles in agencies and institutions both Government and NGO sector.*
- d. Planning, monitoring and evaluation of nutrition and health programmes*
- e. Training and IEC activities of regional and national programmes*
- f. Ensuring food safety and quality for consumers*
- g. Entrepreneurial ventures*
- h. Advocacy and consultancy*

Eligibility for Admission

The candidates should have completed General Home Science/CD/CT/EDEX/FN/ Home Management at B.Sc. level with a minimum percentage of marks decided by the University time to time. Candidate having B.Sc. with Foods& Nutrition will not entitle to get admission.

Note: *It is a full time degree course and therefore cannot run part time or as external. The contact hour is **minimum five hours including practical per week** should be given to the student if it is run by the P. G. Department or any other centre. A total of 96 credits have to be taken by the students to complete the programme. If the number of credits exceeds 96, it permissible, but the calculation of the grade point average will be done on the basis of 96 credits only.*

DURATION OF THE COURSE

Two years Courses: The duration of the course is for two academic years consisting of four semesters.

EXAMINATIONS

There shall be four semester examinations: first semester examinations at the middle of the first academic year and the second semester examination at the end of the first academic year. Similarly, the third and fourth semester examinations shall be held at the middle and the end of the second academic year, respectively. The courses are divided into two parts among one is internal consists of 30 marks for core, skill oriented and multidisciplinary courses and 15 marks for elective courses and external consists of 70 marks for core, skill oriented and multidisciplinary courses and 35 marks for elective courses. Internal marks are further divided into three parts among one is MCQ test of 10 marks for CC, MD and SO while 5 marks for elective which is conducted during middle and end of each semester and average of two is consider as a final score. 10 mark of assignment for CC, MD and SO while 5 marks for elective. 10 mark of seminar for CC, MD and SO while 5 marks for elective. Course contain practical works is exempted from seminar.

PATTERN OF QUESTION PAPER: For theory

For 4 credit course, question paper will be of 2.5 hours duration.

Question paper will contain total six questions.

Question No-1 or Question No. 1 will be compulsory and objective type.

Students will have to attempt any three questions from the rest of the questions.

All Questions will carry equal grades.

For 2 credit course, question paper will be of 1.5 hours duration.

Question paper will contain total four questions.

Question No-1 or Question No. 1 will be compulsory and objective type.

Students will have to attempt any two questions from the rest of the questions.

All Questions will carry equal grades.

For practical

For practical examination, a skeleton will be designed and given to examiner every year. The duration of examination is five hours. Passing standard is 40 %.

- BHAKT KAVI NARSINH MEHTA UNIVERSITY, JUNAGADH - EXAMINATION CODING SYSTEM - M.Sc. HOME SCIENCE - SEMESTER – 1							ANNEXURE ‘A’					
Sem. – 1												
Core Courses	Course Code	Subject	T/P	Credit	Contact Hrs/Week	Exam Duration in Hrs	Marks					
							Internal		External		Total	
							Total	Passing	Total	Passing	Total	Passing
M.D.	MD1	RESEARCH METHODS	T	4	4	2.5	30	12	70	28	100	40
CORE COURSE	CC-1T	PROCESS OF EXTENSION MANAGEMENT	T	4	4	2.5	30	12	70	28	100	40
	CC-1P	PROCESS OF EXTENSION MANAGEMENT	P	2	4	5	0	0	50	20	50	20
	CC-2T	ENTREPRENEURSHIP & MARKETING	T	4	4	2.5	30	12	70	28	100	40
	CC-2P	ENTREPRENEURSHIP & MARKETING	P	2	4	5	0	0	50	20	50	20
	CC-3T	THERAPEUTIC NUTRITION	T	4	4	2.5	30	12	70	28	100	40
	CC-3P	THERAPEUTIC NUTRITION	P	2	4	5	0	0	50	20	50	20
ELECTIVE (ANY ONE)												
ELECTIVE - 1	E-1T	NUTRITION DURING PREGNANCY AND LACTATION	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 2	E-2T	PRINCIPLES OF INTERIOR DECORATION	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 3	E-3T	DEVELOPMENT PROCESS IN GENDER	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 4	E-4T	TEXTILE TECHNOLOGY	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 5	E-5T	RURAL DEVELOPMENT	T	2	2	1.5	15	06	35	14	50	20
TOTAL				24	30		135		465		600	

CC=Core Course MD= Multi Disciplinary E = Elective

- BHAKT KAVI NARSINH MEHTA UNIVERSITY, JUNAGADH - EXAMINATION CODING SYSTEM - M.Sc. (HOME SCIENCE) - SEMESTER – 1							ANNEXURE ‘B’					
Sem. – 1												
Core Courses	Course Code	Subject	T/P	Credit	Paper No.	Paper Code	Marks					
							Internal		External		Total	
							Total	Passing	Total	Passing	Total	Passing
M.D.	MD1	RESEARCH METHODS	T	4	P-1	MHS1rm0MD010	30	12	70	28	100	40
CORE COURSE	CC-1T	PROCESS OF EXTENSION MANAGEMENT	T	4	P-2	MHS1pemC0120	30	12	70	28	100	40
	CC-1P	PROCESS OF EXTENSION MANAGEMENT	P	2		----	0	0	50	20	50	20
	CC-2T	ENTREPRENEURSHIP & MARKETING	T	4	P-3	MHS1em0C0230	30	12	70	28	100	40
	CC-2P	ENTREPRENEURSHIP & MARKETING	P	2		-----	0	0	50	20	50	20
	CC-3T	THERAPEUTIC NUTRITION	T	4	P-4	MHS1tn0C0340	30	12	70	28	100	40
	CC-3P	THERAPEUTIC NUTRITION	P	2		-----	0	0	50	20	50	20
ELECTIVE (ANY ONE)												
ELECTIVE - 1	E-1T	NUTRITION DURING PREGNANCY AND LACTATION	T	2	P-5	MHS1nplE0051	15	06	35	14	50	20
ELECTIVE - 2	E-2T	PRINCIPLES OF INTERIOR DECORATION	T	2		MHS1pidE0052	15	06	35	14	50	20
ELECTIVE - 3	E-3T	DEVELOPMENT PROCESS IN GENDER	T	2		MHS1dpgE0053	15	06	35	14	50	20
ELECTIVE - 4	E-4T	TEXTILE TECHNOLOGY	T	2		MHS1tt0E0054	15	06	35	14	50	20
ELECTIVE - 5	E-5T	RURAL DEVELOPMENT	T	2		MHS1rd0E0055	15	06	35	14	50	20
TOTAL				24			135		465		600	

M. Sc. (HOME SCIENCE) SEMESTER – I
RESEARCH METHODS - PAPER NO.1
MD - MHS1rm0MD010
(CREDITS: THEORY – 4, PRACTICAL – 0, TOTAL – 4)

Objectives

- To understand the significance of statistics and research methodology in Home Science research
- To understand the types, tools and methods of research and develop the ability to construct data gathering instruments appropriate to the research design.
- To understand and apply the appropriate statistical techniques for the measurement scale and design

Unit I: Research- Meaning, purpose and approaches

- Exploration, Description, Explanation
- Scientific method and research
- Research Designs –Experimental and Observational
- Quantitative and Qualitative approaches
- Units of analysis

Unit II: Sampling & Tools

- Role of sampling in research
- Types of sampling
- Research Tools and Techniques
- Interviewing and observational methods

Unit III: The Research Process

- Defining the problem, research questions, objectives, hypotheses
- Review of related literature and originality in writing
- Planning the research
- Subjects context and ethics
- Citation formats: in medical sciences, social sciences

Unit IV: Types of Research Tools (Qualitative and Quantitative)

- Focus Group Discussion
- Case studies
- Observations-Direct, Spot observations
- Body mapping
- Free listing
- Narrations
- In depth interview

Unit V: Ethics and Politics of Research

- Identify, define, and analyze ethical issues in the context of human subject research.
- Reasons for conducting ethical review of research, theories and concepts related to ethical decision-making including consequentialism, deontology, respect, dignity, discourse ethics, communitarianism, liberalism and the four principles approach.
- Ethical importance of consent, privacy and confidentiality in research
- Issues of academic fraud and plagiarism, conflicts of interest, authorship and publication

RECOMMENDED READINGS

- Agrawal C. , Joshi S.P. and Sinha A. : Communication Research and development, The ISRO Experience, New Delhi, Nawray Rai concept Pub. Co.
- Beaglehole R, Bonita R and Kjellstrom T (1993). Basic Epidemiology. World Health Organization, Geneva.
- Best J. (1959) : Research in education. Englewood, Cliffs. New Jersey Prentice Hall Inc.
- Bhattacharya DK (2004). Research Methodology. Published by Anurag Jain for excel books, New Delhi, India
- Biderman A. and Drury T. (1976) : Measuring work and Quality for social reporting New York, John Wiley and Sons.
- Brow F. (1988) : Statistics for Behavioural Science, Boston, Allyn and Barm Inc. Century Gofes
- Fowler FJ (2001). Survey Research Methods (3rd ed.). Sage Publications, Newbury Park
- God V. Caite (1972) : Essentials of Educational Research Methodology and
- Good C.N. (1963) : Introduction to Educational research, New York, Appleton
- Gupta S.C. and Kapodi V.R. (1990) : Fundamentals of Applied Statistics, New
- Hinton P (2004). Statistics Explained: A Guide for Social Science Students. Routledge Publishing, London
- Kaul L. (1980) : Methodology of Educational Research, Vani educational books, Vikas Pub., New Delhi.
- Kenneth King. (1978) : Final report Literacy Research in developing countries -
- Kerlinger F.N. (1965) : Foundations of Behavioural Research, New York, Holt Rinehart and Winston Inc.

- Kothari C R (2008). Research Methodology: Methods and Techniques (2nd ed.). New Age International Publishers, New Delhi, India.Ltd., Ramnagar, Delhi.
- Methodology of Research in Education – Publishing Sidhu Sterling Publishers Pvt.Ltd. New Delhi.
- Monly C.J. (1964) : Tre Science of Educational Research, Einasia Pub. House
- Patton Q.M. (1990) : Qualitative evaluation and Research methods, sage Pub.,
- Ratnapala N. (1993) : New Horizons in Research methodology, Sri Lanka,
- Rolvert horndike (1977) : Measurement & Evaluation in Psychology & Education.4th ed.
- Singh A.K. (1986) : Tests, Measurement and Research Methods in Behavioral
- Sproull N (2003). Handbook of Social Research Methods: A Guide for Practitioners and Students in the Social Sciences. The Scarecrow Press, Inc., New Jersey
- Wandt Edwin (1968) : A cross section of educational Research, David Mckay workshop on education research with special research on literacy. Geneva

M. Sc. (HOME SCIENCE) SEMESTER – I
PROCESS OF EXTENSION MANAGEMENT - PAPER NO.02
CC- 1 - MHS1pemC0120
(CREDITS: THEORY – 4, PRACTICAL – 2, TOTAL – 6)

Objectives

- Understand the concepts and process of management.
- Realize the importance of management for achieving organizational goals.
- Apply the principles of management to the management of extension organizations / services.

UNIT;- 1 Concept of Extension Management

- Definition, nature and process and need
- Models and principles of extension management

UNIT:- 2 Steps in Extension Management:

- Planning – Meaning and characteristics – elements, policies, strategies, procedures, rules, budgets – planning process, types of plan – Decision making: meaning – forecasting and decision making – decision making under uncertainty.
- Organizing – organizational structure – organizational chart – organizational relationship – formal and informal organization – span of management – scalar principle, departmentation – line staff – functional committee – delegation of authority – principles of delegation – authority and responsibility – centralization and decentralization.
- Co-ordination – meaning, objectives, linkage mechanisms – involvement of organizations at local level–non-profit & profit making organizations.
- Staffing – meaning, manpower planning, selection – training and development needs – methods performance appraisal, organizational conflict and conflict resolution, grievance handling.

UNIT:-3 Steps in Extension Management

- Directing – methods – motivation – theories. Communication: Importance, types and barriers to communication. Leadership: theories and styles – managerial grid.
- Controlling – meaning and process of control – management Control Techniques – budgetary and non-budgetary control – Modern techniques – PERT, CPM, requirements for effective control system.
- Monitoring and evaluation – meaning, purpose and differences. Types of evaluation, steps in evaluation, efficiency cum performance audit, reporting.

PRACTICALS:-

(1) Manage extension programs and write evaluation reports

(2) Develop a strategy of replication and use the Media

(3) Get information

-1- LCD projector

-2- Video recording

-3- Photography

-4- Film projector

(4) Display Boards -- Whiteboards, Electronic Marker Boards

RECOMMENDED READINGS:-

1. Barger, A. A. (1991): Script Writing for Radio and Television, Sage Publication.
2. Berdeek (1946): Making the Movies, Paul Eiek Halton Garden, London.
3. Brown et al. (1983): A. V. Instruction Technology. Media & Methods. 6th Ed., McGraw Hill Book Co., New York.
4. Brown J.W. (1977): Educational Media Year Book.
5. Dale (1964): Audio-Visual Methods of Teaching. Holt, Rinhart and Winston, London.
6. Banerjee, S. (1981). Principles and Practice of Management. Oxford and IBH Publishing Company, New Delhi.
7. Basu, C.R. (1989). Organisation and Management S. Chand & Co. Ltd., New Delhi.
8. Burton, Gene and Hanab Thakar (1997). Management Today. Tata McGraw Hill Publishing Company, New Delhi.
9. Chandan, J. S. (1997). Management – Concepts and Strategies. Vikas Publishing House ; New Delhi.
10. Koontz and Heinz Weihrich (1990) Essentials of Management. McGraw-Hill; New Delhi.
11. Prasad, M.L. (1999). Principles and Practice of Management. Sultan Chand & Sons, New Delhi.
12. Ramasamy, T. Principles of Management. Himalaya Publishing House, Mumbai.
13. Rao, V.S.P. and Narayana, P.S. (1987). Principles and Practice of Management. Konark Publishing Private Limited, New Delhi.
14. Tripathi, P.C. and Reddy, P.N. (1993). Principles of Management: Tata McGraw Hill, New Delhi.
15. Rajpura M R (2002) “communication Media’ (Booklet) Shree U K V Mahila Arts & Home

Science
College Keshod.

16. Rajpura.,M.R.(2004).Gruh Vigyan Vistaran ane Pratyayan.Rajkot:Pravin
Prakashan.Gujarat

M. Sc. (HOME SCIENCE) SEMESTER – I
ENTREPRENEURSHIP & MARKETING - PAPER NO.03
CC- 2 - MHS1em0C0230
(CREDITS: THEORY – 4, PRACTICAL – 2, TOTAL – 6)

Objectives

- To provide conceptual inputs regarding entrepreneurship management.
- To sensitize and motivate the students towards entrepreneurship management.
- To orient and impart knowledge towards identifying and implementing entrepreneurship opportunities.
- To develop management skills for entrepreneurship management.
- To become aware of different market organizations in our economy.
- To understand the different marketing functions and the distribution system in our economy.
- To familiarize with the marketing strategies and market research.

UNIT; - 1. Conceptual Framework

- Concept need and process in entrepreneurship development.
- Types of enterprise – Merits and Demerits
- Concept of marketing

UNIT; - 2. The Entrepreneur

- Developing Entrepreneurial competencies
- requirements and understanding the process of Entrepreneurship development, self awareness, interpersonal skills, creativity, assertiveness, achievement, factors affecting Entrepreneur's role

UNIT;- 3. Launching and organizing an enterprise

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

UNMIT;-4. Product development and forecasting

- Developing, testing and launching new products
- Idea generation, screening and business analysis
- Understanding market demand and consumer adoption process.
- Labeling and packing.
- Stages in product life cycles

UNIT;- 5. Pricing practices and consumer interest pricing.

UNIT;-6. Advertising, sales Promotion and management

- Advertising objectives, functions, benefits
- Advertising budget and costs of sales promotion
- Types of advertising
- Evaluating of advertising effectiveness

PRACTICALS;-

1. Preparation of various types of advertisement for eg. News paper, leaflets, magazines, hording boards,
2. Collect the information of financial and other assistance from various government agencies to start new entrepreneurial business unit
3. Interview any one women entrepreneur and study the same business unit and study: Entrepreneurship and Marketing Management Practices

RECOMMENDED READINGS;-

1. Meredith, G. G. et al. (1982): Practice of Enterpreneurship, ILO, Geneva.
2. Patel, V.C. (1987): Women Enterpreneurship-Developing, New Entrepreneurs, Ahmedabad EDII.
3. Akhauri, M.M.P. (1990): Entrepreneurship for Women in India, NIESBUD, New Delhi.
4. Hisrich, R.D. and Peters, M.P. (1995): Entrepreneursjhip – Starting, Developing and Managing a New Enterprise, Richard D., Inwin, INC, USA.
5. Hisrich, R.D. and Brush, C.G. (1986). The Women Entrepreneurs, D.C. Health & Co., Toranto.
6. Barolia, G.R. & Sharma N.K. (1998). Effective Advertising. Marketing and Sales Management, mangaldeep Publications, jaipur.
7. Dhar, P.K. (1991): Indian Economy- its Growing Dimensions, kalia Publishers, new Delhi.
8. Hawking D.I., Besi, R.J., Coney K.A. (1983). Consumer Behaviours, Revised Ed., Newman, J.W. Motivation Research & Marketing management, Prentice Hall.
9. Kotler, Philip. (1983). Marketing management. Analysis, Planning and Control, Prentice Hall Ltd., New Delhi.
10. Schillman G. Leon, Kauk Lazer Lesha (1992): Consumer Behaviour, Prentice hall of India, New Delhi.
11. Zikmund, G. William & Michael Daunico (1996). Basic Marketing West Publishing Co.

M. Sc. (HOME SCIENCE) SEMESTER – I
THERAPEUTIC NUTRITION - PAPER NO.04
CC- 3 - MHS1tn0C0340
(CREDITS: THEORY – 4, PRACTICAL – 2, TOTAL – 6)

Objectives:	
This Course will enable students to: • Understand the etiology, Physiologic and Metabolic Anomalies of acute and chronic Diseases and patient needs. • Know the effect of the various diseases on nutritional status and nutritional and dietary Requirements. • Be able to recommend and provide appropriate nutritional care for prevention / and Treatment of the various diseases.	
UNIT;-1. Obtaining medical and dietary history of patients	
UNIT;-2. Nutritional support – Techniques and Feeding substrates – tube feeding, Intra venous feeding	
UNIT;-3. Etiopathophysiology, metabolic and clinical aberrations, complications, prevention and recent advances in the medical nutritional management of	
• Cardio vascular disorders • Diabetes mellitus and other metabolic disorders. • Liver and gall bladder, Pancreatic disorders • Renal disorders • Stress and trauma • Cancer • Infection AIDS • Respiratory problems	
Practical	
1.	Market survey of commercial nutritional supplements and nutritional support substrates.
2.	Interpretation of patient data and diagnostic tests and drawing up of patient diet Prescription, using a case study approach. Follow-up acceptability of diet prescription Compliance; discharge diet, plan for cardiovascular disease diabetes. Liver, Renal Diseases.
3.	Preparation of diet counseling aids for common disorders.
4.	Planning and preparation of diets for patients with common multiple disorders and Complications and discharge diet plans.

RECOMMENDED READINGS;-

- Dave, Nilambari (2004). Nutrition and Diet Therapy, 1st Edition, Dr. Nilambari Dave, Head, Dept. of Home Science, Saurashtra University, Rajkot.
- Mahan, L.K. and Escott-stump S. (2000): Krause's food nutrition and diet therapy, 10th Edition, W.B. Saunders Ltd.,
- Shills, M.E. Olson, J.A. Shilke, M. and Ross. A.C. (1999). Modern in Health and Disease, 9th Edition, Williams and Wilkins.
- Escott-Stump, S. (1998) : Nutrition and Diagnosis Related Care, 4th Edition, Williams and Wilkins.
- Garrow, J.S. James, W.P.T. and Ralph, A. (2000): Human Nutrition and Dietetics, 10th Edition, Churohill Livingstone.
- Williams, S.R. (1993): Nutrition and Diet Therapy, 7th Edition. Times Mirror / Mosby College Publishing.
- Davis. J. and Sherer. K. (1994): Approval nutrient in pediatrics, Boston, little, Brown & Co.,
- Walker, W.A. and Watkins, J.B. (Ed.) (1985): Nutrition in Pediatrics, Boston, little, Brown & Co.,
- Guyton, A.C. and Hall, J.E. (1999): Textbook of Medical Physiology, 9th Edition, W.B. Saunders Co.,
- Ritchie, A.C. (1990): Boyd's textbook of Pathology, 9th Edition, Lea and Febiger, Philadelphia.
- Fauci, S.A. et al. (1998): Harrison's Principles of Internal Medicine, 14th Edition, McGraw Hill.
- World Cancer Research Fund (1997): Food, Nutrition and the Prevention of Cancer. A Global perspective Washington, E.D. WCRF.
- Dave N R,(2004) "Nutrition & Diet Therapy",Department of Home Science,
- Saurashtra University .Rajkot.

M. Sc. (HOME SCIENCE) SEMESTER – I
NUTRITION DURING PREGNANCY AND LACTATION
- PAPER NO.05
E.-1 - MHS1np1E0051
(CREDITS: THEORY – 2, PRACTICAL –, TOTAL – 2)

Objectives

This course is designed to enable the students to:

- Understand physiological changes in pregnancy and lactation.
- Understand the inter-relationship between nutrition and growth and development during life cycle

UNIT; - 1. IMPORTANCE OF MATERNAL NUTRITION

- Importance of Nutrition prior to and during pregnancy.
- Pre-requisites for successful outcome. effect of under nutrition of mother and child including pregnancy outcome and maternal and child health
- Short and long term.
- Physiology and endocrinology of pregnancy and embryonic and fetal growth and development.
- Nutritional requirements during pregnancy.
- Adolescent pregnancy
- Intra-uterine growth retardation
- Complications of pregnancy and its management

UNIT; - 2 LACTATION

- Nutritional requirements during lactation
- Human milk composition during lactation
- Human milk composition and factors affecting breastfeeding and fertility.
- Management of lactation-prenatal breast feeding skill education. Rooming in.
- Problems-sore nipples, engorged breast, inverted nipples etc.
- Exclusive breastfeeding.

UNIT;-3.COMMON DISORDERS OF PREGNANCY:

- Anemia,
- TB,
- HIV Infection,
- Hypertension,
- moderate
- severe malnutrition

RECOMMENDED READINGS;-

1. International Food Policy Research Institute (1997). Care and Nutrition: Concepts and Measurement. International Food Research Institute Washington DC., USA.
2. International Child Health: A Digest of Current Information.
3. Barker, D.J.P. (1998). Mothers, Babies and Health in Later Life. Edinburgh, Churchill Livingstone
4. Ward, R.H.T; Smith, S.K. Donnai, D. (Eds.) (1994) Early Fetal Growth and Development. London, RCOG Press.
5. Sachidev, IIPS and Choudhary, P. (1995), Nutrition in Children Developing Country Concerns. Cambridge Press, New Delhi.
6. King, F.S. (1992). Helping Mothers to Breastfeed Association for Consumers Action on Safety and Health, Mumbai.
7. Wallace, H.M. and Giri, K. (1990). Health Care of Women and Children in Developing Countries. Third Party Publishing Co. Oakland.
8. Tanner, J.M. (1988) Foetus into Man: Physical Growth from Conception to Maturity. Weaton and Co. Ltd., Great Britain.
9. Luke, B. Johnson, T.R.B.; Petrie, R.H. (1993). Clinical Maternal Fetal Nutrition. Little Brown and Co. Boston
10. ACC / SCN Reports.
11. WHO (1999) Nutrition for Health and Development: Progress and Prospects on the Eve of the 21th Century. WHO / NHD /99.9. Geneva.
12. Alderman, H; Behrman, J.; Lavy; Menon, R. (1997) Child Nutrition, Child Health and School Enrollment. Policy Research Working Paper 1700. Washington DC. World Bank
13. Rajpura.,M.R. (2012).Maternal and Child Nutrition. Jaipur:Arravali Prakashan

M. Sc. (HOME SCIENCE) SEMESTER – I
PRINCIPLES OF INTERIOR DECORATION
- PAPER NO.05
E.-2 - MHS1pidE0052
(CREDITS: THEORY – 4, PRACTICAL – 2, TOTAL – 6)

Objectives

- To understand the factors influencing space design organization for optimum comfort and functionalism.
- To understand the application of anthropometric data in designing interior
- To evaluate ergonomically residential interior space for various activities.
- To provide adequate facility for work, relaxation, rest, comfort, privacy, care, aesthetics etc. through interior space designing.
- To study the materials along with fittings and fixtures used in residential interiors.
- To develop skills of drawing the working details and execution drawings.

UNIT;-1. In-depth understanding of residential interior space design from design point of view.

UNIT;-2. Study of factors influencing furnishing of residential interior spaces. Their use & care

UNIT;-3 Factors to be considered while designing.

- Orientation
- Grouping of user's area.
- Circulation between and within user's area.
- Light and ventilation.
- Flexibility.
- Privacy.
- Roominess (Spaciousness).
- Services.
- Aesthetics.
- Cost.
- Basics of furniture design and types of furniture design.

UNIT;-4 Current trends in interior design.

UNIT;-5 Consideration of ergonomics in interior design.

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

UNIT;-6. Application of appropriate materials for various uses.**RECOMMENDED READINGS;-**

1. Alexander, N.J. Mercoust Brace (1972): Designing Interior Environment. Havanovich Inc.
2. Ball, Victoria K 1655 (1980): The Art of Interior Design. Mc Millan & Co,, New York.
3. Bhatt, P.D., Goenka S. (1990): Foundation of Arts Design, lakhari Book Depot, Bombay.
4. Butler Margaret G.E. Greaks Benyl S. (1980): Fabric Furnishing, E.T. Badsford Ltd., London.
5. Chudley, R. (1987): Construction Technology Vol. 1-2 1-IBS Long man Ltd., new York.
6. G.V. Robert (1983): Rendering with Pen + Ink. Thames, Hudson, London
7. Gustafsan Karen and Yes Robert (1983): Corporate Design, Thomas and Hudson, London.
8. Grandjean Ettiens (1978): Ergonomics of the Home, Taylors and Fracis Ltd., London
9. Grandjean Ettieens (1979): Human Dimensions and Interior Space Whitney, New York.
10. Laoch, Sid Del har, Techniques of Interior Design, Rendering and Presentation, McGraw Hill, New York.
11. Leinbac (1986): Visualisation Techniques, McMillan (Prentice hall), New Jersey.
12. Rangwala, N. Building Materials.
13. Encyclopedia of Interior Design.

M. Sc. (HOME SCIENCE) SEMESTER – I
DEVELOPMENT PROCESS IN GENENDER
- PAPER NO.05
E.-3 - MHS1dpgE0053
(CREDITS: THEORY – 2, PRACTICAL – 0, TOTAL – 2)

Objective :-

- To Understand The Concept, Need Relevance And Dimension Of Gender Empowerment
- To Get Sensitized To Gender Disparities / Imbalances And Problem Of Women
- To Understand The Efforts At Different Levels For Empowering Women
- To Know The Support System In The Country For Women's Development

UNIT: - 1. Gender And Development

- Concept Of Gender , Gender Roles , Changing Trends ,
- Gender Analysis. Shift From Welfare To Development And
- Empowerment, Gender In Development, Gender Development.
- National And International Efforts For Gender
- Empowerment

UNIT:-2. Status Of Women

Status- Meaning, Status Of Women-A Situational Analysis, Demographic, Education, Employment, Political And Health(General, Occupational And Reproductive)Changing Scenario.

UNIT:-3 Violence Against Women

Dowry, Divorce, Female Feticide And Infanticide, Domestic Violence, Sexual Harassment And Exploitation, Portrayal Of Woman In Mass Media. Efforts For Elimination Of All Forms Of Discrimination.

UNIT:-4 Policies And Programmes For Women's Development

- National Policy For Empowerment Of Women, Policy Perspectives, Mainstreaming, A Gender Perspective In The Development Process.
- Economic Empowerment: Poverty Eradication, Micro-Credit, Self-Help Groups, Women And Agriculture, Women And Industry And Support Services.
- Social Empowerment: Education, Health, Nutrition, Drinking Water And Sanitation, Housing And Shelter, Environment.
- Legal Empowerment: Legal Literacy On Personal And Family Laws, Role Of Family Court And Legal Aid Centers.
- Political Empowerment: Role Of Panchayatiraj In The Political Empowerment Of

Women

RECOMMENDED READINGS;-

- 1.Black M.(1993) : Girls And Women, A Unicef Development Priority, Unicef; New York
- 2.Laxmidevi(1998).Women And Development. Institute For Sustainable Development And Anmol Publications Pvt.Ltd.;New Delhi.
- 3.Sahay S. (1998) Women And Empowerment: Approaches And Strategies. Discovery Publishing House: New Delhi
- 4.Sharma,O.C.(1994). Crime Against Women. Sterling Publishers Pvt.Ltd; New Delhi.
- 5.Yadav,C.P. (2000). Empowerment Of Women. Vol.I & II

M. Sc. (HOME SCIENCE) SEMESTER – I
TEXTILE TECHNOLOGY
- PAPER NO.05
E.-4 - MHS1tt0E0054
(CREDITS: THEORY – 2, PRACTICAL – 0, TOTAL – 2)

Objectives

1. To acquaint the students about the polymers of which the textile fibres are made.
2. To understand the chemistry, production and fundamental properties of natural and synthetic fibres.
3. To familiarise with the chemical processing from desizing to finishing of textiles and principles.
4. To acquaint the students with some advanced textile technology.

Contents

Chemistry Of Cellulosic Fibres

Introduction to cotton, varieties, properties, longitudinal and cross sectional view.

Molecular structure of cellulose, action of acids and alkalis, hydro cellulose and oxycellulose, mercerisation, liquid ammonia treatment.

Regenerated cellulosic fibres – viscose rayon, cuprammonium rayon, cellulose acetate, rayon, polynosic – their manufacture, properties and uses.

Protein Fibres – Wool & Silk

Chemical composition, molecular structure, physical and chemical properties, action of acids, alkalis and other chemical on protein fibres.

Brief description on, felting of wool, degumming and weighting of silk, shrink proofing of wool.

Synthetic Fibres – Polyester, polyamide and acrylonitrile fibres.

Chemistry of the fibres – raw material, manufacturing process from polymer to fibre stage.

Physical and chemical properties of all the fibres and their uses. Examples of commercial production in India.

Blends of different fibres, composition and properties and uses in textiles and clothing.

Other natural and synthetic fibres. Their chemical composition, properties and uses viz. jute, flax, hemp, tencel, polyethylene, polypropylene, carbon, polycarbonate, metallic, glass fibre and polyurethane fibres.

References

1. Shenai, V.A. (1984): Technology of Textile Processing, Vol.-IX, Sevak Publication.
2. Cook, J. Gordon, Hand Book of Textile Fibres, Man-Made Fibres, Merrow Publishing Co. Ltd., England.
3. Moncrief : R.W. Manmade Fibres, John Willey & Sons New York.
4. Trotman, E.R. (1975): Dyeing and Chemical Technology of Textile Fibres Charles Griffino Company Ltd., London.
5. Marsh, J.T. (1979): An Introduction to Textile Finishing, B. I., Publications.
6. Mark H., Wooding N.S. & Atlas, Smeeds, (1970): Chemical after Treatment of Textiles, John Willey & Sons Inc., NY.
7. Lewin, M. and Sello, Stephen B. (1983): Handbook of Fiber Science and Technology, Vol. II, Chemical Process of Fibers and Fabrics, Functional Finishes - Part A, Marcel Deker, Inc., NY and Basel.
8. Shenai, V.A. (1991): Introduction to the Chemistry of Dyestuffs, Sevak, Prakashan,.
9. Gulrajani M.L. and Gupta, D. (1992): Natural Dyes and their Application to Textiles, IIT Delhi.
10. Mohanty, Chandramouli, Naik, (1987): Natural dyeing process of India, Ahmedabad, Calico Museum of Textiles.
11. India Horti business on line, <http://www.agroindia.org/1HOL>.

M. Sc. (HOME SCIENCE) SEMESTER – I
RURAL DEVELOPMENT - PAPER NO.05
E.-5 - MHS1rd0E0055
(CREDITS: THEORY – 2, PRACTICAL – 0, TOTAL – 2)

Objectives;-

- To make students aware about rural Indian society.
- To make students aware about conditions and living in rural areas.
- To make students aware about ongoing rural development programmes.
- To make students aware about need for future development in rural areas.

UNIT; - 1. RURAL DEVELOPMENT -INDIAN CONTEXT

- Rural Society and Economy - Introduction to Rural Sociology, Rural Demography, Rural Social Structure, Rural Economic Structure, Rural Poverty
- Rural Development : Concepts, Structure and Experience - Development-An Overview, Rural Development : Concepts and Strategies, Rural Development – Agrarian Issues - Agrarian Movements, Land Reforms, Green Revolution Agricultural Extension Services Rural Development Administration - Administrative Structure, Panchayati Raj, Cooperatives in Rural Development, Rural Credit and Banking
- Dynamics of Change in Rural India - Social Change : Mobility & Mobilization, Empowerment information, Education and Communication (IEC), Information Technology and Rural Development

UNIT;-2. RURAL DEVELOPMENT PROGRAMMES

- Poverty Alleviation Programmes – A Retrospect - Poverty Alleviation Programmes – A Retrospect
- Minimum Needs Programme, Integrated Rural Development Programme (IRDP), TRYSEM and DWCRA
- Jawahar Rozgar Yojana (JRY), Employment Assurance Scheme (EAS) Programmes for self & Wage Employment and Social Security Current Strategy - Swarnjayanti Gram Swarozgar Yojana (SGSY)-1, Swarnjayanti Gram Swarozgar Yojana (SGSY)-2, Sampoorna Grameen Rozgar Yojana (SGRY), National Social Assistance Programme (NSAP), Food Security – TPDS 9

UNIT;-3.Other Development Programmes - Prime Minister's Rozgar Yojana (PMRY), Rural Employment Generation Programme (REGP), Rashtriya Mahila Kosh, Programmes of Development Finance Corporations

- Rural Basic Services and Infrastructure - Elementary Education and Total Literacy Campaign (TLC), Rural Housing, Rural Health Care, Drinking Water and Rural Sanitation, Rural Electrification & Energy, Rural Connectivity.
- Natural Resources Management and Environment - Drought-Prone Areas Programme and Desert Development Programme, Integrated Wasteland Development Programme, Social Forestry and Joint Forest Management, Science and Technology for Rural Development.

References:

1. Rural Development. O.P.Dhama and Bhatnagar.
2. IGNOU course on Rural Development Material.
3. Issues on Rural Finance Infrastructure and Rural D...by G DBanerjee , Srijeet Banerji , 2010.
4. Rural Development Programmes in India, Meenu Jain, 2011.
5. Rural Development and Planning in India, Dr V Nath, 2010.