



પરિપત્ર:

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટીની સાયન્સ વિદ્યાશાખાનાં અભ્યાસક્રમ ચલાવતી તમામ સંલગ્ન કોલેજોનાં આચાર્યશ્રીઓને સવિનય જણાવવાનું કે સાયન્સ વિદ્યાશાખા હેઠળનો હોમ-સાયન્સ વિષયનો એમ.એસસી. પ્રોગ્રામનો 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. સાયન્સ વિદ્યાશાખાનાં એમ.એસસી. વિષયનાં પી.જી.નો અભ્યાસક્રમ ચલાવતી તમામ સંલગ્ન કોલેજોનાં પી.જી.સેન્ટર અને અનુસ્નાતક ભવનો દ્વારા તેની અમલવારી કરવા જણાવવામાં આવે છે.



[Signature]
૨૬/૦૭/૨૦૨૪
ખાસ ફરજ પરના અધિકારી
(એકેડેમિક)

ક્રમાંક/બીકેએનએમયુ/એકેડેમિક/૧૦૫૨/૨૦૨૪

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી,

સરકારી પોલીટેકનિક કેમ્પસ,

ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી રોડ,

ખડીયા, જૂનાગઢ-૩૬૨૨૬૩

તા.૨૬/૦૭/૨૦૨૪

પ્રતિ,

- ભક્તકવિ નરસિંહ મહેતા યુનિવર્સિટી સંલગ્ન સાયન્સ વિદ્યાશાખાનાં પી.જી.(હોમ-સાયન્સ)નાં અભ્યાસક્રમો ચલાવતી તમામ કોલેજોના આચાર્યશ્રીઓ તેમજ સંલગ્ન ભવનનોનાં અધ્યક્ષશ્રીઓ 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, આઇ.ટી.સેલ વિભાગ (વેબસાઇટ ઉપર પ્રસિદ્ધ થવા અર્થે.)



**BHAKTA KAVI NARSINH MEHTA UNIVERSITY
JUNAGADH**



BOARD OF HOME-SCIENCE STUDIES
FACULTY OF SCIENCE
SYLLABUS FOR
M.Sc. (SCIENCE) PROGRAMME
(SEMESTER- III & IV)
EFFECTIVE FROM JUNE, 2024

BHAKTA KAVI NARSINH MEHTA UNIVERSITY

Syllabus of **M.Sc. (Home-Science)**

Faculty of **Science**

Effective from June 2024

- BHAKT KAVI NARSINH MEHTA UNIVERSITY, JUNAGADH - EXAMINATION CODING SYSTEM - M.Sc. (GENERAL HOME SCIENCE) - SEMESTER – 3							ANNEXURE ‘A’					
SEM. – 3												
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
D.S.C.	D.S.C.	ADVANCED SCIENTIFIC WRITING	T	4	4	2.5	30	12	70	28	100	40
CORE COURSE	CC-7T	CONCEPT OF COMMUNICATION DEVELOPMENT	T	4	4	2.5	30	12	70	28	100	40
	CC-7P	CONCEPT OF COMMUNICATION DEVELOPMENT	P	2	4	5	0	0	50	20	50	20
	CC-8T	DYEING AND PRINTING TECHNOLOGY	T	4	4	2.5	30	12	70	28	100	40
	CC-8P	DYEING AND PRINTING TECHNOLOGY	P	2	4	5	0	0	50	20	50	20
	CC-9T	CARE OF CHILDREN WITH DISABILITY	T	4	4	2.5	30	12	70	28	100	40
	CC-9P	CARE OF CHILDREN WITH DISABILITY	P	2	4	5	0	0	50	20	50	20
ELECTIVE (ANY ONE)												
ELECTIVE - 1	E-1T	TECHNIQUES IN DIETETICS AND PATIENT COUNSELLING	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 2	E-2T	ERGONOMICS	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 3	E-3T	SUSTAINABLE DEVELOPMENT	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 4	E-4T	CONCEPT OF FASHION RETAILING	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 5	E-5T	GUIDANCE AND COUNSELLING	T	2	2	1.5	15	06	35	14	50	20
TOTAL				24	30		135		465		600	

BHAKTA KAVI NARSINH MEHTA UNIVERSITY

Syllabus of **M.Sc. (Home-Science)**

Faculty of **Science**

Effective from June 2024

• BHAKT KAVI NARSINH MEHTA UNIVERSITY, JUNAGADH • EXAMINATION CODING SYSTEM • M.Sc. (GENERAL HOME SCIENCE) • SEMESTER – 3							ANNEXURE ‘B’					
SEM. – 3												
Core Courses	Course Code	Subject	T/P	Credit	Paper No.	Paper Code	Marks					
							Internal		External		Total	
							Total	Passing	Total	Passing	Total	Passing
D.S.C.	D.S.C.	ADVANCED SCIENTIFIC WRITING	T	4	P-1	MHS3aswDS210	30	12	70	28	100	40
CORE COURSE	CC-4T	CONCEPT OF COMMUNICATION DEVELOPMENT	T	4	P-2	MHS3ccdC0720	30	12	70	28	100	40
	CC-4P	CONCEPT OF COMMUNICATION DEVELOPMENT	P	2			0	0	50	20	50	20
	CC-5T	DYEING AND PRINTING TECHNOLOGY	T	4	P-3	MHS3dptC0830	30	12	70	28	100	40
	CC-5P	DYEING AND PRINTING TECHNOLOGY	P	2			0	0	50	20	50	20
	CC-6T	CARE OF CHILDREN WITH DISABILITY	T	4	P-4	MHS3ccdC0940	30	12	70	28	100	40
	CC-6P	CARE OF CHILDREN WITH DISABILITY	P	2			0	0	50	20	50	20
ELECTIVE (ANY ONE)												
ELECTIVE - 1	E-1T	TECHNIQUES IN DIETETICS AND PATIENT COUNSELLING	T	2	P-5	MHS3tdcE0051	15	06	35	14	50	20
ELECTIVE - 2	E-2T	ERGONOMICS	T	2		MHS3ergE0052	15	06	35	14	50	20
ELECTIVE - 3	E-3T	SUSTAINABLE DEVELOPMENT	T	2		MHS30sdE0053	15	06	35	14	50	20
ELECTIVE - 4	E-4T	CONCEPT OF FASHION RETAILING	T	2		MHS3cfrE0054	15	06	35	14	50	20
ELECTIVE - 5	E-5T	GUIDANCE AND COUNSELLING	T	2		MHS3gseE0055	15	06	35	14	50	20
TOTAL				24			135		465		600	

PATTERN OF QUESTION PAPER: For theory

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.

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.

1. પહેલો પ્રશ્ન ફરજિયાત છે. Questions No.1 is Compulsory. 2. બાકીનામાથી કોઇપણ ત્રણ લખો. Attempt any 3 from the rest. 3. પ્રશ્ન નં ૨ થી ૬ના ગણુ સરખા છે. Question No.2 to 6 carry equal marks.				1. પહેલો પ્રશ્ન ફરજિયાત છે. Questions No.1 is Compulsory. 2. બાકીનામાથી કોઇપણ બે લખો. Attempt any 2 from the rest. 3. પ્રશ્ન નં ૨ થી ૪ના ગણુ સરખા છે. Question No.2 to 4 carry equal marks.			
TOTAL MARKS		EXAM DURATION	MARK	TOTAL MARKS		EXAM DURATION	MARKS
70 MARK		2.5 HRS		35 MARK		1.5 HRS	
Q.1	COMPULSORY		16	Q.1	COMPULSORY		11
	OR				OR		
	COMPULSORY				COMPULSORY		
	Attempt any THREE Question from Q.2 – Q.6				Attempt any Two Question from Q.2 – Q.4		
Q.2			18				
Q.3			18	Q.2			12
Q.4			18	Q.3			12
Q.5			18	Q.4			12
Q.6			18				

Course Title: ADVANCED SCIENTIFIC WRITING

Credit: 04 – PAPER -1 (DSC)

Contact hour/week= 04 THEORY 04 + PRACTICAL 00 - TOTAL = 4

Objectives:

- To be able to appreciate and understand importance of writing scientifically.
- To develop competence in writing and abstracting skills.

Contents

Unit 1: Scientific writing as a means of communication

- Different forms of scientific writing
- Articles in journals
- Research notes and reports
- Review articles
- Monographs
- Dissertation
- Bibliography
- Book chapters and articles

Unit II: Outlines

- Concept of outline
- Importance of outlines
- Objectives of outline
- Types of outlines

Unit III: General principle of writing

- preparing a text for submission and publication
- Drafting
- Outline
- Proof reading
- Brevity and precision
- concepts of preface
- notes (end and footnotes), glossary
- prologue and epilogue
- appendix
- bibliography (annotated) and references cited
- review and index

Unit IV: Dissertation/Research reports/Thesis

- Introduction
- Review of literature
- Research design
- Results and discussion
- Summary
- Abstracts
- References/bibliography
- Justification and recommendations

Unit VI: Writing for Grants

- The question to be addressed
- Rational, importance and justification
- Empirical and theoretical frame work
- Pilot study
- Research proposal
- Research design
- Stage wise organization of study
- Expected outcome and importance
- Available infrastructure and resources
- Budgeting
- Executive Summary

References

1. APA (1994). Publication Manual of American Psychological Association (4th Edition), Washington: APA.
2. Copper, H.M. (1990). Integrating research: A guide for literature reviews (2nd Edition). California: Sage
3. Dunn, F.V. & Others. (Ed.) Disseminating research: Changing practice, N.Y. Sage
4. Harman, E & Montages, I. (Eds.) (1997). The thesis and the book, New Delhi: Vistar.
5. Locke, L.F. and others (1987). Proposals that work: A guide for planning dissertations & Grant proposals (2nd Ed.) Beverly Hills: Sage.
6. Richardson, L. (1990). Writing strategies. Reaching diverse audience, California:
7. Stemberg, R. J. (1991). The psychologist's companion: A guide to scientific writing for students & researchers. Cambridge: CUP.

Course Title: CONCEPT OF COMMUNICATION DEVELOPMENT (Core) – PAPER -2

Contact hour/week= THEORY 04 + PRACTICAL 02 - TOTAL = 8

Objectives

- To understand the concept of development, its Indices and relationship with development communication.
- To understand the concept of development communication and its relevance to fostering development.
- To impart knowledge about the processes involved in developmental communication with special emphasis on design of communication strategy.
- To impart skill and knowledge about the relevance, potential and use of various media in development communication with due consideration to government policies and regulations.

Contents

Theory

1. Basic Concept: Development

- Definition, Basic concept, nature, evolution, significance, functions and dysfunctions, dynamics of development.

2. Basic Concept: Development Communication

- Definition, evolution with respect to historical and cultural perspective of development communications.
- Nature, role and significance of development communication
- Models of development communication
 1. Interdependent model
 2. Dependency model
 3. Basic needs model
 4. New Paradigm of development
- Approaches to development communication Diffusion and Extension approach,
- Participatory approach
- Strategies in development communication.

3. Media in Development Communication

- Understanding the role of traditional and modern media in development communication.
- Use of folk media, puppetry, exhibitions, theatre, posters, print media (newspapers, books, leaflets, IEC material), radio, television and cinema.
- Government policies and regulations on mass media in India.
- Understanding and analysis of the ongoing Govt. and non-governmental efforts in development communication.
- New avenue for development communication literacy, women and development, human rights, environment.

M. Sc. (GENERAL HOME SCIENCE) SEMESTER – 3

**Course Title: CONCEPT OF COMMUNUCATION DEVELOPMENT. Practical
Credit: 02**

Course Category: Core, Contact hour/week=04

1. Case studies in development communication (eg. Beneficiaries of government program, yojana, Mahila mandal etc.)
2. Dealing with various issues in development communication through the use of folk media.
3. Project preparation on specific area in development communication, with the use of PRA and RRA techniques.

References:

1. Capila, A. (2001): Images of Women in the Folk Songs of Garhwal Himalayas; Concept Publishers, New Delhi.
2. Communication for Development in the 'Third World Theory and Practice (1991), Sage Publication, New Delhi.
3. Honolulu (1976): Communication and change: The Last Ten Years and Next, University of Hawal Press.
4. Ithiel Pool, Frey, F.W. and Schramm Wilbur (1973): handbook of Communication.
5. Joshi Uma (1997): Textbook of Mass Communication and Medial Anmol Publications; New Delhi.
6. Joshi Uma (2001): Understanding Development Communications: Dominant Publishers; New Delhi.
7. Journal of Communication
8. Media Asia (1979): Popular Participation through Communication.
9. Mehta, S.R. (1992): Communication and Development, Issues and Perspectives, Rawat Publications, Jaipur.
10. Modi, B.: Designing Messages for Development, Sage Publications, New Delhi.
11. Nair, R. (1993): Perspective in Development Communication, Sage Publications, New Delhi.
12. Nair, K. S. and White, Shirley (1993): Perspective on Development Communication, Sage Publications, New Delhi.
13. Narula U. (1994): Development Communication, Haranand Publications.
14. Rajpura M R (2003) "Home Science extension & Communication" Shree U KV Mahila Arts & Home Science College Keshod

DYEING AND PRINTING TECHNOLOGY

PAPER – 3 (CORE)

Contact hour/week= THEORY 04 + PRACTICAL 02 - TOTAL = 8

Objectives:

- To impart the knowledge about preparation of fabric for dyeing & printing.
- To understand the theory of dyeing in relation to various classes of dyes.
- Application of various dyes & properties related to it.
- To introduce the concept of dyeing at commercial level.
- To inculcate awareness of the different methods of printing and appreciate the technical Advantages of each.
- To develop technical competency in printing with different dyes on different fabrics.

Theory

1. Preparation of fabric for dyeing & printing

- Scouring, bleaching, designing
- Reagents used & their application
- Specific preparatory steps for cotton, wool, silk & manmade fibres

2. Dye

- Equipment used at cottage & Industrial level for yarn, fabric & price goods
- Classification, definition, components Color & chemical constitution of dyes
- Dyeing with chemical dyes

A. direct, reactive, vat, Sulphur, azo [for cellulosic]

B. acid, metal complex, chrome mordant [for protein]

C. basic, nylomine, disperse [for man-made]

- Dyeing with natural dyes
- Use of pigments
- Dyeing machines for fibers, yarns & fabrics
- Industrial dyeing practices
- Dyeing auxiliaries & their uses
- Dyeing of blends

3. Textile design through dyeing

- Tie & dye
- Batik
- Union & Cross dyeing

4. Dyeing defects & remedies

5. Introduction to printing - difference between dyeing and printing.

6. Methods of printing

- Historical development of printing methods block stencil, screen roller and rotary screens used at cottage and industrial level.

7. Printing pastes Thickening agents and auxiliaries for printing and their suitability to various classes of dyes and fibers. Preparation of printing pastes for different dyes and different fibers.

8. Styles of Printing

- Direct style, dyed, resist or reserve style, discharge style and raised style.
- Styles and methods of printing traditionally used in India.

DYEING AND PRINTING TECHNOLOGY (Practical)

Credit: 02. Contact hour/week=04

Practical's

1. Preparation of fabric for dyeing & printing
2. Dyeing of yarns & fabric with different classes of dyes, in fiber & fiber blends (variables-MLR, con, temp, leveling/exhausting agents)
 - Direct, reactive, vat, Sulphur, azo
 - Acid, chrome, metal complex
 - Basic, disperse
 - Natural dyes
3. Preparation of fabric for printing-different fiber groups with different dyes, different styles of printing.
4. Preparation of screens for printing
5. Printing with blocks and screens on cotton, silk, wool and cotton wool, cotton silk and cotton polyester blends in different styles with different dye classes.
 - Direct style
 - Mordant or dyed style, Azok style
 - Discharge style
 - Resist style
 - Raised style
 - Transfer printing
6. Finishing the printed goods
7. Reports of visits to processing and printing units-cottage and industrial level.

References

1. VA. Shenai (1987), Chemistry of Dyes and Principles of Dyeing, Sevak Prakashan, Mumbai.
2. H.A. Lubis, Robert E. The Chemistry of Synthetic Dyes and Pigments, Krieger Publishing Company, New York.
3. V.A. Shenal (1999), Azo Dyes-Facts and Figures-Sevak Prakashan, Mumbai.
4. V.A. Shenal (1977), Technology of Printing-Technology of Textile Processing, Vol. IV, Sevak Publication,
5. R.S. Prayag, Technology Textile Printing-Noyes Data Corporation.
6. ML. Gulrajani and Deepti Gupta (1990), Natural Dyes and their Application to Textiles", ed. LLT. Delhi Publication.
7. John and Margarot Cannon (1994), Dye Plants and Dyeing, The Herbert Press (UK).ASTM and ISI Standards.
8. K. Venkatrama (1970), Chemistry of Synthetic Dyes, Part I and II.

Course Title: CARE OF CHILDREN WITH DISABILITY

PAPER – 4 (CORE)

Contact hour/week= Contact hour/week= THEORY 04 + PRACTICAL 02 - TOTAL = 8

Objectives:

- To gain information on different impairments and illnesses that affect children.
- To be sensitive to desires and wishes of children.
- To identify and assess impairment, illnesses, disability and the child's physical and social environment.
- To plan for inclusive educational programmes for children and involving the disabled child in the process.
- To become sensitive to concerns of parents of children with disabilities and collaborate with them for children's education and development.
- To interact and relate sensitively with children with disability, accepting individual differences and enable others to do so.

CONTENTS

1. Different types of impairments and serious illness, causes and the effects on

children.

- Physical, intellectual, sensory and emotional impairments.
- Illnesses such as juvenile diabetes, asthma

2. The philosophy of inclusion.

3. Attitudes of others in the family and community.

4. Techniques for identification and recording progress.

5. Physical, organizational and social barriers in the development of children with disabilities

- Modification and adaptation of physical and social environment, the meaning of inclusion, enabling participation of children with disabilities in the school and community so that they have a sense of belonging as well a opportunity to become contributing members.

6. Use of assistive devices.

7. Listening to children and including their views in life at school and home.

- 8. Care of the child in the family, role of parents, siblings and other members.**
- 9. The rights versus needs of the children.**
- 10. Examples of programmes for children with disabilities, innovative projects.**
- 11. Issues in planning inclusive care programmes.**

Course Title: CARE OF CHILDREN WITH DISABILITY (PRACTICALS)

Credit: 02

Contact hour/week=04

1. Planning and working with children and parents.
2. Case study of a child with disability and illness.
3. Case study of one organization each for children with Blindness, Deaf and Dumb and mentally retarded with particular reference to its physical and social environment.
4. Study of Govt. Schemes and policies for Disable children.

References

1. Chand, I. (1997). Climb every mountain: Harper Collins Publishing India, New Delhi.
2. D. Mitchell & R. I. Brown (Eds.) Early Intervention studies for young children with special needs (pp. 19-14) London: Chapman and Hall.
3. Dale, N (1996). Working with families of children with special needs. London; Routledge.
4. Indira Gandhi national Open University (IGNOU), (1995). In Sen, R.S. (Ed.), Children with special needs-1 (p. 17) DECE 3 Services and Programmes for Children, New Delhi: IGNOU school of Continuing Education.
5. Kaur, B. & Karanth, P. (1993). Education for young children with special needs. In T.S. Saraswathi & B. Kaur (Eds.), Human Development and family studies in India: An Agenda for research and policy (pp. 300-314). New Delhi: Sage.
6. Want, M.C. (1987-89). Handbook of special Education: Research & Practice. Vol. 3 Oxford: Pergamon.

Journals

1. Disability and Society
2. Action Aid Disability News
3. Impairment and disability.
4. Asia Pacific Disability Rehabilitation Journal

Course Category: Elective PAPER – 5.1

Course Title: TECHNIQUES IN DIETETICS AND PATIENT COUNCELLING

Credit: 02

Contact hour/week= Contact hour/week= THEORY 02 + PRACTICAL 00 - TOTAL = 2

UNIT-1

Dietician as part of the medical team and outreach services. Role of dietician. Essential qualities

UNIT-II

Medical history, assessment techniques for obtaining relevant information from patients profile.

UNIT -III

Dietary diagnosis and tests for nutritional status correlating clinical and dietary information.

UNIT-IV

Patient counseling Assessment of patient needs, establishing rapport and counseling relationship, resources and aids to counseling relationship, resources and aids to counseling.

UNIT-V

Aesthetic attributes- Nutritional significance of diet for different clinical conditions. Follow visit and patients education.

Reference:

1. Goyet, fish. V.; Seaman, J. and Geijer, u-(1978): The Management of Nutritional Emergencies in Large Populations, World Health Organisation, Geneva
2. Refugee Nutrition Information System (ANIS): Newsletters UN ACCISCN Subcommittee on Nutrition.
3. Field Exchange, Newsletters by Emergency Nutrition Network, Dept. of Community Health and General Practice, Ireland.

Course Title: ERGONOMICS PAPER – 5.2

Course Category: Elective

Credit: 02

Contact hour/week= THEORY 02 + PRACTICAL 00 - TOTAL = 2

Objective

- To become aware of the role of ergonomics in work effective and efficiency.
- To understand the environment factors contributing to productivity, safety, control and wellbeing of Individual performing the work.

Contents

1. Ergonomic-

- Scope of work in household and other occupations.
- Nature of work in household and other occupations.
- Interdisciplinary and applied nature of ergonomics as a field of study.
- -Man-Machine-Environment system

2. Physiological Aspect of work

- .Structure and function of the muscles.
- Biochemistry of muscle work.
- Physiological factors involved in muscular work.
- Carbohydrates, fats & proteins
- Oxygen
- Cardio-vascular and respiratory system
- Thermo-regulatory system

Sources of energy for muscular work

- ATP, Energy currency
- CP, energy reserve
- Food, carbohydrates, fats & proteins
- Static and dynamic muscular effort
- Energy requirement for muscular work and efficiency
- Energy expenditure for different activities.
- Endurance and muscular strength
 - Dynamometer
 - Skill
 - Maximal work
 - Speed
 - Factors effective physiological reaction doing work.

- Workload and Posture

3. Anthropometry and Biomechanics

- Definition, scope
- Human body as a system of levers
- Effect of wrong postures on cardio vascular and muscular skeletal system.
- Identification and analysis of postures
- Correct techniques of lifting and carrying weights.
- Principles of motion economy
- Design application of Anthropometry.
- Work centers
- Equipment's and Tools
- Others items of concern/protective use.

4. Environment

- Physical
- Heat
 - Thermal regulation of the body at rest and during work.
 - Thermal balance
 - Factors responsible for exchange of heat between body and surrounding environment.
 - Heat stress
 - Thermal comfort

Noise-music

- Effect of noise, music on productivity and well-being
 - -Vibrations and its effect on body parts during work with vibrating tools
 - Lighting and color
 - -Atmospheric pollution
 - -Psycho-social Environment

5. Engineering Psychology

- Man-machine system
- -Behavioral and motivational Factors

6. Ergonomic consideration for the physically challenged

References

1. Astrand, P.O. and Rodahl, K. (1986): Textbook of work physiology, McGraw Hill, New York.
2. Haupt, W.Q. and Feinleis, M.E. (1979) physiology of movement vol.7. Verlag Publication Berlin Springer
3. Grandjean E. (1968) Fitting the Task to the man A Textbook of occupational Ergonomics Tylor and Francis, London.
4. McArdle, D.W. Katch, F.I. and Katch, V.L. (1981 & 1991) Exercise physiology, 4th Edition, Henry Kimpton publishers, Baltimore.
5. Chaffin, D.B. and Anderson G.B. (1984) Occupational Biomechanics, John Wiley and Sons.
6. Wells, K. and Luttgens Kathryn (1976) kinesiology scientific basis of human motion 6th edition
6. Davies, D.R. and Shackleton, V.J. (1975) psychology of work, Motunen & Co. Ltd.
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8. Osborne David (1980) Ergonomics at work John Wiley and Sons, New York, London.
9. Nag, P.K. (1996) Ergonomics and work design merging issues in organizational science new age international (P) Ltd New York.
10. Kumar Shrawan (1969) perspective in rehabilitation ergonomics Taylor & Francis, London.
11. Steidle and Braton work in home
12. Close Guy (1980) work Improvement John Wiley and Sons, New York
13. Grandjean E. (1978) Ergonomics of the home Tylor and Francis, London
14. Mureli K.F.H. (1965) Ergonomics, Chapman Hall, London.
15. Anshel, Jeffrey (1998) visual ergonomics in the workplace, Tylor and Francis London
16. Macleod, Dan (1995) The ergonomics edge improving safety quality and productivity Van Nostrand Reinhold New York.
17. Crossman, Richard (1995) ergonomics pocket guide, Genium publication.
18. Dul, Jan and Weerdmeester Bernard (2001) Ergonomics for beginners Taylor & Francis, London.
19. Parsons, K.C. (2001) Human thermal environments Taylor & Francis, London.
20. Ringahl Lars Harms (2001) safety analysis Taylor & Francis London.
21. Jordan, P.W. (2001) pleasure with products Taylor & Francis London.
22. Norris, B. and Wilson J.R. (2001): Designing safety into Products: Taylor & Francis, London.
23. Wilson, J.R. and Covlett, N. (2001): Evaluation of Human Work. A Practical Ergonomics methodology Taylor & Francis, London.
24. Pheasant Stephan (2001) body space, anthropology, ergonomics and the design of work Taylor & Francis London

Course Title: Sustainable Development

Course Category: Elective

Credit: 02 PAPER – 5.3

Contact hour/week= THEORY 02 + PRACTICAL 00 - TOTAL = 2

Objectives:

- To enable students:
- Understand the concept of sustainability and development.
- Critically evaluate the interlinkages of people's participation and sustainable development.
- Understand community resources and identify the trends in the extent and consequences of their utilization.
- Evaluate existing structures and established arrangements for sustainable management of community resources.
- Understand the relationship between environmentally sound technologies and sustainability.

Contents

1. Concept of sustainable development

- Sustainability meaning, concept and implications for development. Sustainable development-concept, philosophy, goals and challenges.
- Dimensions of sustainable development: social, spiritual, economic, educational security.
- Theories of development, changes in the concept of development, factors leading to change.

2. People's participation and sustainability

- People's participation history, concepts and controversies, types and forms in development initiatives.
- Relationship between participation, learning and sustainability. Inter linkages of people's participation for building local knowledge, capacity of people and local institutions.

3. Sustainability and community resource perspective

- Community resources - a perspective concept of resources natural and shared resources, ecological (air, water, fuel, flora, fauna) institutional inputs (community groups/networks understanding resources, their interdependency. Indicators of environmental unsustainability - new paradigm of development

4. Management of community resources and sustainability

- Trends and changes in the management of community resources. Institutional practices and policies influencing community resource management, community based organizational structures and practices, state, NGOs and other driven structures, policies, advantages and disadvantages.
- Factors affecting sustainability of community resource management initiatives institutional sustainability, credibility, public image, style of functioning, human resource accountability.
- Programme sustainability: participation, capacity building, training, skill development, developing leadership, self-reliance, gender issues.
- Financial sustainability: corpus funds, assets, net working.

5. People's Initiatives and sustainability

- Ecology and resource conservation: concepts, bio diversity, resource conservation methods, renewable energy and resources, role of women.
- Environmentally sound technologies: their impact on sustainable management of resources, adoption patterns, impact on lives of people, technologies for agriculture, water management, fuel and energy conservation, and soil fertility.
- Initiatives by different societal structures for food production methods and practices and sustainable farming, water management practices for sustainable management of forests for fuel and fodder needs of communities.
- Environment and habitat
- Advantages and lacuna in the initiatives of different societal structures in sustainable community resource management initiatives.

References

1. Bunch, R. (1985): Two Ears of Corn. World Neighbors; USA.
2. Dale, R. (2000): Organizations and Development Strategies, Structures and Processes. Sage Publications, New Delhi.
3. Integrated Rural Development for Sustainable Livelihood. BAIF Development Research Foundation.
4. Mathur. G.C. (1993): Low-cost Housing in Developing Countries. Oxford and IBH Publishing Co. Private limited, New Delhi

Course Title: CONCEPT OF FASHION RETAILING

Course Category: Elective

Credit: 02 PAPER – 5.4

Contact hour/week= THEORY 02 + PRACTICAL 00 - TOTAL = 2

Objectives

- To understand the dynamics of fashion and role of fashion designers
- To develop understanding visual merchandising and its importance in today's consumer market.
- To gain knowledge about the management aspect of retailing.

Contents

1. The Dynamics of Fashion

- Fashion Terminology, Fashion Cycle, Fashion Adoption Theories, Fashion Forecast, the role of designers in merchandising.

2. The Concept of Retailing,

- Definitions, Role of retailing in merchandising, the retail mix, retail environment, types of retail stores.

3. Elements and Principles of Art and Design

- Elements of Design: Color, texture, line, form, space
- Principles of Design: Rhythm, Balance, Proportion, Emphasis, Unity.
- Interpretation for designing a retail store.
 - Plans and schedule-seasons, holiday promotions, sales, themes /ideas.
 - Types of Displays - Window displays, interior displays.
 - Elements of Display The merchandise the backdrop walls and shelves mannequins and forms, signage lightings - illuminance levels, relation to colour.

4. Planning and Budgeting for a Retail Store

- Maintenance and ordering of stocks, preparation of sales reports.

5. Recruitment and Management of Sales Force.

- Types of compensation packages for sales force, Personal Selling as a means of Promotion

References

1. Dhake, Spoons, (1992): Greenworld Retail Fashion Promotion and Advertising, Mac Millan Publication.
2. Janow, J.A. Judelie, B. and Guerreiro, M. (1981): Inside the Fashion Business, John Wiley & Sons, NY, Toronto, Brisbane.
3. Frings G.S. (1982): Fashion from Concept to Consumer, Prentice Hall Inc., Englewood Cliffs, New Jersey.
4. Easey, M. (1995): Fashion Marketing, Blackwell Science Ltd.
5. Majare, S. (1995): The Essence of Marketing, Prentice Hall of India, New Delhi.
6. Chuter, A.J. (1995): Introduction to Clothing Production Management, Blackwell Science Ltd.
7. Stone, E. and Samples, J.A. (1985): Fashion Merchandising - An Introduction, McGraw Hill Book Company.

Course Title: GUIDANCE AND COUNSELING

Course Category: Elective

Credit: 02 PAPER – 5.5

Contact hour/week = THEORY 02 + PRACTICAL 00 = TOTAL = 2

Objectives

- To understand the need for guidance and counseling in human development.
- To introduce basic concepts in guidance, counseling and therapy.
- To discuss the processes involved in counseling at different stage in life.

Contents

1. Construct of guidance, counseling and therapy

- Basic differences.
- Guidance and counseling needs of individuals, families and systems.

2. Role of culture in influencing counseling needs and practices.

(A) Nature of psychological disorders at different stages that require counseling and therapy

- At childhood
- At adolescence and youth
- At adulthood
- In old age

(B) Types of crises: natural disasters, manmade crisis situations.

3. Principles of counseling and therapy

- Approaches to counseling at different developmental stages.
- Family therapy approach.
- Qualities and skills of a counselor

4. The process of counseling

- First contact, assessment, intervention, closure, follow-up
- Guidance and therapeutic intervention for vulnerable/special groups of children and adolescents
- Normal developmental stages & basic needs
- Children in difficult circumstances
- Separation, loss and death
- Effect of crises events on different age groups

- Intervention techniques
- The role of the family
- Special issues in treating children

References:

1. Burnard, P. (1999). Counseling skills training. New Viva books.
2. Manthel, R. (1997). Counseling: the skills of finding solutions to problems. London: routledge.
3. Nicolson, D. & Ayers, H.(1995). Individual Counselling: Therapy and practice. London: David Fulton.
4. Medicine sans frontiers (MSF) Handbook for a monthly course on trauma related problems. Trainer's manual, oct 1997 Mental health training manual Shocking events and stressful situation- their emotional consequences. Amstedram, april 1993
5. Save the children helping children in difficult circumstances. (A teacher's Manual) London, 1992 Schauer, Margarete
6. Posttraumatic stress (PTSD) and extreme stress (DES). First aid kit for the mental health team providing psycho-social service-for theseverelytramatized kosovoalbanians in the refugee camps. MSF mental health- Macedonia 1999
7. World health organization mental health of refuges, geneva, 1996

BHAKTA KAVI NARSINH MEHTA UNIVERSITY

Syllabus of **M.Sc. (Home-Science)**

Faculty of **Science**

Effective from June 2024

- BHAKT KAVI NARSINH MEHTA UNIVERSITY, JUNAGADH - EXAMINATION CODING SYSTEM - M.Sc. (GENERAL HOME SCIENCE) - SEMESTER – 4							ANNEXURE 'A'					
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
D.S.C.	D.S.C.	FOOD SERVICE MANAGEMENT	T	4	4	2.5	30	12	70	28	100	40
CORE COURSE	CC-7T	ADVANCED COMMUNICATION TECHNOLOGY IN EXTENSION	T	4	4	2.5	30	12	70	28	100	40
	CC-7P	ADVANCED COMMUNICATION TECHNOLOGY IN EXTENSION	P	2	4	5	0	0	50	20	50	20
	CC-8T	FASHION DESIGN AND APPAREL MAKING	T	4	4	2.5	30	12	70	28	100	40
	CC-8P	FASHION DESIGN AND APPAREL MAKING	P	2	4	5	0	0	50	20	50	20
	CC-9T	ASSESSMENT OF NUTRITIONAL STATUS IN COMMUNITY	T	4	4	2.5	30	12	70	28	100	40
	CC-9T	ASSESSMENT OF NUTRITIONAL STATUS IN COMMUNITY	P	2	4	5	0	0	50	20	50	20
ELECTIVE (ANY ONE)												
ELECTIVE - 1	E-1T	ADVANCE PUBLIC NUTRITION	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 2	E-2T	HUMAN RESOURCE MANAGEMENT	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 3	E-3T	WOMEN AND CHILD WELFARE	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 4	E-4T	TEXTILE AND QUALITY CONTROL TESTING	T	2	2	1.5	15	06	35	14	50	20
ELECTIVE - 5	E-5T	ENVIRONMENT MANAGEMENT	T	2	2	1.5	15	06	35	14	50	20
TOTAL				24	30		135		465		600	

BHAKTA KAVI NARSINH MEHTA UNIVERSITY

Syllabus of **M.Sc. (Home-Science)**

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Effective from June 2024

- BHAKT KAVI NARSINH MEHTA UNIVERSITY, JUNAGADH - EXAMINATION CODING SYSTEM - M.Sc. (GENERAL HOME SCIENCE) - SEMESTER – 4							ANNEXURE ‘B’					
SEM. – 4												
Core Courses	Course Code	Subject	T/P	Credit	Paper No.	Paper Code	Marks					
							Internal		External		Total	
							Total	Passing	Total	Passing	Total	Passing
D.S.C.	D.S.C.	FOOD SERVICE MANAGEMENT	T	4	P-1	MHS4fsmDS310	30	12	70	28	100	40
CORE COURSE	CC-10T	ADVANCED COMMUNICATION TECHNOLOGY IN EXTENSSION	T	4	P-2	MHS4actC1020	30	12	70	28	100	40
	CC-10P	ADVANCED COMMUNICATION TECHNOLOGY IN EXTENSSION	P	4			0	0	50	20	50	20
	CC-11T	FASHION DESIGN AND APPAREL MAKING	T	2	P-3	MHS4fdmC1130	30	12	70	28	100	40
	CC11P	FASHION DESIGN AND APPAREL MAKING	P	4			0	0	50	20	50	20
	CC-12T	ASSESMENT OF NUTRITIONAL STATUS IN COMMUNITY	T	2	P-4	MHS4ancC1240	30	12	70	28	100	40
	CC-12P	ASSESMENT OF NUTRITIONAL STATUS IN COMMUNITY	P	4			0	0	50	20	50	20
ELECTIVE (ANY ONE)												
ELECTIVE - 1	E-1T	ADVANCE PUBLIC NUTRITION	T	2	P-5	MHS4apnfE0051	15	06	35	14	50	20
ELECTIVE - 2	E-2T	HUMAN RESOURCE MANAGEMENT	T	2		MHS4hrmE0052	15	06	35	14	50	20
ELECTIVE - 3	E-3T	WOMEN AND CHILD WELFARE	T	2		MHS4wcwE0053	15	06	35	14	50	20
ELECTIVE - 4	E-4T	TEXTILE AND QUALITY CONTROL TESTING	T	2		MHS4tgtE0054	15	06	35	14	50	20
ELECTIVE - 5	E-5T	ENVIRONMENT MANAGEMENT	T	2		MHS4enmE0055	15	06	35	14	50	20
TOTAL				24			135		465		600	

PATTERN OF QUESTION PAPER: For theory

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.

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.

1. પહેલો પ્રશ્ન ફરજિયાત છે. Questions No.1 is Compulsory. 2. બાકીનામાથી કોઇપણ ત્રણ લખો. Attempt any 3 from the rest. 3. પ્રશ્ન નં ૨ થી ૬ના ગણુ સરખા છે. Question No.2 to 6 carry equal marks.				1. પહેલો પ્રશ્ન ફરજિયાત છે. Questions No.1 is Compulsory. 2. બાકીનામાથી કોઇપણ બે લખો. Attempt any 2 from the rest. 3. પ્રશ્ન નં ૨ થી ૪ના ગણુ સરખા છે. Question No.2 to 4 carry equal marks.			
TOTAL MARKS		EXAM DURATION	MARK	TOTAL MARKS		EXAM DURATION	MARKS
70 MARK		2.5 HRS		35 MARK		1.5 HRS	
Q.1	COMPULSORY		16	Q.1	COMPULSORY		11
	OR				OR		
	COMPULSORY				COMPULSORY		
	Attempt any THREE Question from Q.2 – Q.6				Attempt any Two Question from Q.2 – Q.4		
Q.2			18				
Q.3			18	Q.2			12
Q.4			18	Q.3			12
Q.5			18	Q.4			12
Q.6			18				

BHAKTA KAVI NARSINH MEHTA UNIVERSITY

Syllabus of M.Sc. (Home-Science)

Faculty of Science

Effective from June 2024

COURSE TITLE: FOOD SERVICE MANAGEMENT

Credit: 04 PAPER – 1 (DSC)

Contact hour/week= THEORY 04 + PRACTICAL 00 = TOTAL = 4

Objectives:

- To develop a knowledge base in key areas of Institutional Food Administration
- To provide practical field level experience in Institutional Food Administration.
- To impart necessary expertise to functional as a food service manager
- To equip individual to start their own food service unit leading to entrepreneurship
- To develop critical abilities and provide basic grounding in research techniques.

Content:

Unit 1: History and Development of Food Service System

Unit 2: Planning a Food Service Unit

Unit 3: Setting up a Food Service Unit

Unit 4: Entrepreneurship and Food Service Management

Unit 5: Menu Planning: Focal Point of all Activities in Food Service Establishment

Unit 6: Food Purchasing and Storage

Unit 7: Quantity Food Production-Planning and Control

Unit 8: Quantity Food Production-Kitchen Production

Unit 9: Food Management: Records and Controls

Unit 10: Delivery and Service- Goals and Issues

Unit 11: Delivery and Service: Styles

Unit 12: Delivery and Service in Different Systems

Unit 13: Administrative Leadership

Unit 14: Staff Planning and Management

Unit 15: Personnel Functions: Work Productivity

Unit 16: Plant and Equipment Maintenance

Unit 17: Plant Sanitation and Safety

Unit 18: Issues in Food and Worker Safety and Security

References:

Management

1. West, B. Bessie & Wood, Levelle (1998). Food Service in Institutions 6th Edition. Revised by Harger FV, Shuggart SG & Palgne-Palacio June MacMillan Publication Company, new York.

BHAKTA KAVI NARSINH MEHTA UNIVERSITY

Syllabus of [M.Sc. \(Home-Science\)](#)

Faculty of [Science](#)

Effective from June 2024

2. Sethi Mohini (1993) Catering management An Integrated Approach 2nd Edition Wiley Publication.
3. Kotas Richard & Jayawardardene, C. (1994): Profitable Food and Beverage management, hodder & Stoughton Publication.
4. Brodner, J. Maschal, H.T., Carlon, H.M. (1982): Profitable Food and Beverage Operation 4th Edition, hayden Book Company, New Jersey.
5. Green, E.E. Drake, G.G. Sweeny, J.F. (1978). Profitable Food and Beverage Management. Planing, operations. Hayden Book Company, new Jersey.

Personal management

1. Knootz, H, O. Donnel C. (1968): Principles of Management McGraw Hill Book Company. Desseler, Garry (1987): Personnel management Modern Concepts and Techniques, Prentice Hall, new Jersey.
2. Kumar, H.L. (1986): Personal management in Hotel Catering Industries, metropolitan Book Company, New Delhi.
3. Hich Cock M. J. (1980): Food Service System Administration, McMillan Publishing Company. Cost Control
4. Keiser, J. & Caillo, E. (1974): Controlling and Analysis of Cost in Food Service Operations Wiley and Sons New York.
5. Khari, W. L. (I) (1977): Introduction to Modern Food and Beverage Service (1979). Advanced Modern Food and Beverage Service Prentice Hall Series.
6. Coltman, M.M. (1977): Food and Beverage Cost Control. Prentice Hall Series.
7. Levison (1976): Food and Beverage Operation Cost Control and System management. Prentice Hall Series Layout and Design
8. Kazarian, E.A. (1989) Food Service Facilities Planning 3rd Edition Von. Nostrand Reinhold.
9. Avery A.C. (1980): Modern Guide to Food Service Equipment, Boston CBI Publishing Company.
10. Brichfield, J. (1988): Design ad layout of Food Service Facilities, New York, Van Norland Reinhold.
11. Tolve, A.P. (1984): Standardising Food Service for Quality ad Efficiency, AVI Publishing Company INC.

Course Title: ADVANCED COMMUNICATION TECHNOLOGIES IN EXTENSION

Course Category: Core PAPER - 2

Credit: 04

Contact hour/week- THEORY 04 + PRACTICAL 02 - TOTAL = 8

Objectives

- To impart knowledge and understanding of various communication systems.
- To provide a sound knowledge base for the relevance and applicability of the various media used in human communication and their complementary role towards each other.
- To enhance the versatility of the students in the selection and use of media in different socio- cultural environments.
- To provide basic knowledge of concept of advertising and use of media in advertising.
- To impart skill in preparation of various Computer Aided Media messages.

Contents

1. Communication Systems

- Types of communication systems concept, functions and significance. Interpersonal, organizational, public and mass communication.
- Elements, characteristics and scope of mass communication.
- Mass communication models and theories;
- Visual communication-elements of visual design-color, line, form, texture and space;
- Principles of visual design - rhythm. Harmony, proportion, balance and emphasis
- Visual composition and editing.

2. Media Systems: Trends and Techniques

- Concept, scope and relevance of media in society.
- -Functions, reach and influence of media.
- Media scene in India, issues in reaching out to target groups.
- Contemporary issues in media women and media, human rights and media, consumerism and media.
- Historical background; nature characteristics, advantages and limitations and future prospects of media.
- Traditional media; role in enhancing cultural heritage, co-existence with modern media systems and applicability in education and entertainment-puppetry, folk songs, folk theatre, fairs.
- Print media, books, newspapers, magazines leaflets and pamphlets.

- Electronic media-radio, television, video, computer based technologies.

3. Advertising

- Definition, concept and role of advertising in modern marketing system and national economy.
- Inter-relation of advertising and mass media systems.
- Types of advertisements commercial, non-commercial, primary demand, selective demand, classified and display advertising, comparative and co-operative advertising.
- Techniques of preparation of effective advertisements for various media.
- Ethics in advertising.

4. Computer Graphic Designing

- Introduction to Basics of Computers.
- Advantages of Digital Multimedia.
- Introduction to Graphics.
- Drawing objects, shaping, transforming, stretching, and mirror and scaling, making curves, lines rectangles, circles and ellipses. Creating special effects, editing it, extruding an object and using blends.

Course Title: ADVANCED COMMUNICATION TECHNOLOGIES IN EXTENSION

Practical

M. Sc. (GENERAL HOME SCIENCE) SEMESTER – 4

Course Category: Core Credit: 02 Contact hour/week-04

1. Designing a visual composition-book cover and Folder with the help of computers.
2. Evaluation of advertising, a newspaper story, a radio programme and a television broadcast (Any two).
3. Planning, development and evaluation of communication strategies and techniques for selected traditional, print electronic and outdoor media systems.
4. Preparing effective advertisements keeping in consideration headlines, illustration, slogan, logo, and seal of approval and color effectiveness with the help of computer.

Reference

1. Corner, J. Communication Studies-In Introductory Reader.
2. Defiuers and Dennis (1994): Understanding Mass Communication.
3. Gupta S.S.: Cases in Advertising and Communication Management in India.
4. Harper and Row (1989): main Currents in Mass Communication, Agee, Adut and Emery.
5. Joseph, D. (1993): The Dynamics of Mass Communication.
6. McQuail, D. (1994): Introduction to Mass Communication, 3rd Edition, Sage Publication.
7. Ravindran, R.K. (1999): media ad Society.
8. Ravindran, R.K. (2000): Media in Development Area.
9. Schramm, W. (1988): The Story of Human Communication, from cave painting to the Microchip.
10. Vivian, J. (1991): Media of Mass Communication.
11. Wright, winters and Zeiger: McGraw Hill, Advertising Management.
12. Zachariah, A. (1999): Media power, People, Politics and Public Interest
13. Rajpura., M.R. (2012) Communication Technologies in Extension. Jaipur: Arravali Prakashan.

Course Title: FASHION DESIGN AND APPAREL MAKING

Contact hour/week= THEORY 04 + PRACTICAL 02 - TOTAL = 8

Course Category: Core PAPER – 3 Credit: 04

Objectives

- The course aims at providing in depth working knowledge of line development and enables a student to use and practice skills and knowledge already acquired, use it to market situation.
- To help develop skills in pattern making and construction.

Contents:

Theory

1. Fitting - factors affecting good fit, common problems encountered and remedies for fitting defects. [Upper and lower garments]
2. Clothing for people with special needs
 - Maternity and lactation period
 - Old age
 - Physically challenged
3. Elements used in creating design.
 - Concept and scope of fashion, design, classification of fashion.
4. Composition
 - With one element
 - With more than one element.
5. Color-its sensitivity and composition in dress.
6. Harmony-in form of space coverage to design of dress.
7. Components of fashion:-
 - Silhouette
 - Details
 - Color
 - Fabric
 - Texture
 - Seams

- Trims

8. Fashion Forecasting

9. Study of Markets and Segments

10. Design professionals.

11. Knowledge of Fashion Trends, Brands and Designers,

- Introduction to designers
- National designer
- International designers,

12. Business opportunities and avenues, Interdepartmental relationship for Merchandiser, Boutique handling

Course Title: FASHION DESIGN AND APPAREL MAKING (Practical)

Credit: 02

Contact hour/week=04

1. Sketching

- Sketching of different action croquis (front, back and the side view) Application) (computer
- Garment and garment details.
- Accessories

2. Developing a line of garments on a theme (any one of the following)

- Casual wear
- Sports wear
- Cocktail wear
- Executive wear

3. Understanding and sketching theme based on fashion forecast.

- Sourcing of raw materials
- Developing line, based on fabric and theme selected
- Spec sheet study
- Sampling
- Garment analysis
- Costing-construction of garments
- Line presentation
- Use of sale promotion material
- Designing of 1 garment for selected theme drafting and making patterns for the same, construction of any one garment.

Reference:

1. Sharon Lee Tate, Inside Fashion Design Harper and Row, Publishers N. York.
2. Kathryn Samuel, Life styles, Fashion styles Orbis London.
3. Milbank C.R. (1985) Couture, The great Fashion Designers, Thames and Hudson publication.
4. Carter E. (1977); The changing world of fashion G.P. Putnam's Sons, New York.
5. Rubin L.G. (1976). The world of Fashion, canfield press, San Francisco.
6. Castelino M. (1994) Fashion Kaleidoscope, Rup & Co.

Course Title: ASSESSMENT OF NUTRITIONAL STATUS IN COMMUNITY

Credit: 04 PAPER – 4 (CORE)

Contact hour/week= THEORY 04 + PRACTICAL 02 - TOTAL = 8

Objectives:

The course is designed to:

- Orient the students with all the important state-of-the-art methodologies applied in nutritional assessment and surveillance of human groups.
- Develop specific skills to apply the most widely used methods.

Contents

Theory

1. Nutritional assessment as a tool for improving the quality of life of various segments of the population including hospitalized patients.
2. Current methodologies of assessment of nutritional status, their interpretation and comparative applications of the following:
 - Food consumption
 - Anthropometry
 - Clinical and Laboratory
 - Rapid Assessment & PRA
 - Functional indicators such as grip strength, respiratory fitness, Harvard Step test, squatting test.
3. Nutritional Surveillance - Basic concepts, uses and setting up of surveillance systems.
4. Monitoring and Evaluation

**Course Title: ASSESSMENT OF NUTRITIONAL STATUS IN COMMUNITY
(Practical)**

Credit: 02 Contact hour/week=04

- Training in all assessment techniques applicable for individuals and community, including ones used for hospital-based patients
- Validity and reliability of these techniques.
- Community based project for assessment of nutritional status of any vulnerable group.
- A small evaluation study of a nutrition project.

References

1. Jelliffe, D. B. and Jelliffe, E.F.P. (1989): Community Nutritional Assessment, Oxford University Press.
2. Beghin, I., Cap, M. and Dujardan, B. (1988): A Guide to Nutritional Status Assessment, WHO, Geneva.
3. Gopaldas, T. and Seshadri, S. (1987): nutrition Monitoring and Assessment, Oxford University Press.
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Course Title: ADVANCE PUBLIC NUTRITION

Course Category: Elective

Credit: 02 – PAPER – 5.1

Contact hour/week= THEORY 02 + PRACTICAL 00 = TOTAL = 2

Unit-I

Concept of public nutrition Relationship between health and nutrition, role of public nutritionists in the health care delivery system. Population dynamics - Demographic transition, population structure, population policy, fertility behavior, nutrition and quality of life inter- relationship. Nutritional status methods for assessing nutritional status Indirect methods demography, population dynamics and vital events and their health implications, indicators of health an nutrition (IMR, TMR, MMR) - Direct anthropometry, biochemical, clinical, dietary and functional methods of assessments.

UNIT -II

Nutrition during life span pregnancy, lactation, infancy, preschool age, school going and adolescents, adults and old age.

UNIT-III

Approaches and strategies for improving nutritional status and health - Programmatic options their advantages and demerits. Intervention Programmes Health based interventions, Food based interventions including fortification and genetic improvement of foods, supplementary feeding. Malnutrition and Health economics its impact on productivity and national development. Cost management.

UNIT-IV

Information Education Communication approaches to improve health and nutrition: Concepts Scope- Elements Models of communication, Process Approaches and Barriers to communication, Communication for Extension Education and Development Introduction to IEC Aims and Objectives, Importance of IEC, relevance to programmes Nutrition education for behavior change Rationale, Planning Execution and evaluation Intervention Programmes Health based interventions, Food based interventions including fortification and genetic improvement of foods, supplementary feeding- Different Media, their characteristics and use- IEC for different target groups.

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3. SCN News, UN ACC/SCN Subcommittee on Nutrition.
4. State of the World's Children, UNICEF.
5. Census Reports.
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19. Documents and Reports published by the International Vitamin A Consultative Group
20. Documents and Reports of the International Nutritional Anemia Consultative Group
21. Howson, C.; Kennedy, E. and Horwiz, A. (eds) (1998). Prevention of Micronutrient Deficiencies: Tools for Policymakers and Public Health Workers. Committee on Micronutrient Deficiencies, Board on International Health, Food and Nutrition Board, National Academy Press, Washington D.C. USA
22. Micronutrient Initiative (1998) Food Fortification: To End Micronutrient Malnutrition. The Micronutrient Initiative, Ottawa, Canada.

Course Title: HUMAN RESOURCE MANAGEMENT

Course Category: Elective

Credit: 02 – PAPER - 5.2

Contact hour/week= THEORY 02 + PRACTICAL 00 = TOTAL = 2

Objectives

- To understand the various methods and techniques of human resource planning and human resource audit
- To analyses factors for optimum manpower development.

Contents

1. Manpower planning
2. Setting manpower standard
3. Skilled labor
4. Integrated budget for man power planning
5. System and analysis approach to manpower management
6. Controlling manpower costs
7. Quantitative and qualitative approaches to manpower economy

References

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3. Drucker P.F. (1976): Management Tasks, Responsibilities and Practices, Allied Publishers, Bombay.
4. Garg, P.K. and Parikh, I.J. (1993): Young Managers at the Cross Roads. The Trishanku Complex, Sage Publishers, New Delhi
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Course Title: WOMEN AND CHILD WELFARE

Course Category: Elective

Credit: 02 - PAPER – 5.3

Contact hour/week= THEORY 02 + PRACTICAL 00 = TOTAL = 2

OBJECTIVE:

- To enable students to become aware and sensitized to issues related to welfare of child, women & elderly.

Content:

Unit-1

Welfare Services Community introduction

- a) Concept of Welfare of Women, child & elderly.
- b) History of Women & child welfare in India.

Unit-II

Agencies working for welfare of Women

- a) Central and state social welfare board.
- b) Bhartiya Grameen Mahila Sangh
- c) Kasturba Gandhi National Memorial Trust.
- d) All India Women's Conference
- e) SEWA (Self-Employed Women's Association)
- f) Women' study centre, Chetna
- g) Women's Universities.
- h) Role of NGOs
- i) Legislations for Women's Welfare.

Unit-III

Agencies working for the welfare of children

- a) Indian Council of child welfare.

- b) National institute for public cooperation and child development.
- c) Integrated child development services.
- d) Central Social Welfare Board.
- e) Nutrition programmes in the Country.
- f) Legislation related to child welfare
- g) Worldbank.
- h) Role of NGOs in welfare of Children.

Unit-IV

The Aged in India.

- a) Policies and programmes.
- b) Role of Voluntary organizations
- c) Old Age home, day centers

REFERENCES:

1. Coxh, "Later Life Realities of Aging, Prentice Hall, New Jerco.
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4. Mala D. Shubham, "Women, Tradition & Culture

Course Title: TEXTILE AND QUALITY CONTROL TESTING

Course Category: Elective

Credit: 02 - PAPER – 5.4

Contact hour/week= THEORY 02 + PRACTICAL 00 = TOTAL = 2

Objectives

- To develop an understanding of methods and technique used to analyses textile fiber, yams and fabrics for end-use performance.
- To acquire knowledge and understanding of various structural properties of textiles and relate them to end use fabric performance and product. To familiarize students with the different testing equipment's, their underlying principles and the international accepted standards, test methods and the language of Measurement.
- To be able to analyses and interpret the results and predict the general textile testing.

I. Introduction to Textile Testing

- Concept and scope
- Application areas
- Use of statistics in data management
- Sampling procedures

II. Total quality management (TQM) approach in the field of Textiles & Clothing.

III. Standardization

- Standards for fabric performance.
- Organizations for Standardization (National and International).
- Quality control of Textile products.
- Quality standards as applicable to various types of textiles (Garments, yardage, knits, woven, carpets, processing, dyeing).

IV. Properties of textiles at different stages of processing and their principle of measurement.

- Fibers-length, fineness, evenness
- Yarn-strength, evenness, openness, load, elongation, crimp.
- V Concept of Statistical QC
- Sampling
- Test methods used
- Tolerance limits, CV%

References

1. Booth, J.E.: Principles of Textile Testing - Newness Butter Worth, London..
2. Billie, J. Collier and Helen H. Epps - Textile Testing and Analysis - Prentice Hall, New Jersey.
3. John, H. Skinkle-Textile Testing-Brooklyn, New York.
4. Grover and Hamby - Hand Book of Textile Testing and Quality Control, Wiles.
5. ISI Specifications, BIS Specification.
6. ASTM Standards.

Course Title: ENVIRONMENT MANAGEMENT

Course Category: Elective

Credit: 02 - PAPER – 5.5

Contact hour/week= THEORY 02 + PRACTICAL 00 = TOTAL = 2

Objectives

- To be aware of the holistic ecological approaches to environment.
- To be aware of the environmental problems, hazards and risks
- To understand the aspects of environmental pollution and waste management.
- To be aware of the environmental policies, movements and ethics.

Contents

1. Eco-system-Earth, man and Environment

- Ecosystems of the world
- Pathways in ecosystem
- Problems of sustainability of ecosystems

2. Land and Water Resources of the Earth

- Land resources of the earth
- Land use
- Water resource of the earth

3. Pollution and Environment with reference to Air, Water, Soil, Noise Sources of pollution

- Effects of pollution, Air and water borne diseases, Chemical insecticides and its impact on health, Toxic actions of metals and biological substances
- Remedies to control pollution

4. Waste management

- Types of waste
- Method of waste management
- Water pollution and treatment of waste
- Solid waste management

5. Air pollution control technology

References

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2. Basu, R.N. (2000): Environment, University of Calcutta.
3. Bhatia, H.S. (1998): A Textbook of Environment Pollution & Control, New Delhi.
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- Ramanan, P. (1998): Society Environment and Engineering, New Delhi; New Age International