#### UNIVERSITY OF MUMBAI No.UG / 459 of 2007

CIRCULAR:-

A reference is invited to the Ordinances, Regulations and Syllabi relating to M. Phil degree course vide Pamphlet No.180 and to this office Circular Mo.16/464 of 2007, dated 19<sup>th</sup> November, 2007 and the Principals of the affiliated colleges in Arts, Science, Commerce and The Principal, College of Home Science are hereby informed that the recommendation made by the Ad-hoc Board of Studies in Home Science at its meeting held on 20<sup>th</sup> April, 2007 has been accepted by the Academic Council at its meeting held on 10<sup>th</sup> August, 2007. Vide Item No.4.2 and that in accordance therewith, the M. Phil degree course in Home Science has been introduced by the University from the academic year 2007-2008.

Further that the syllabus for the M.Phil. degree course Home Science is as per Appendix and that the same has been brought into force with effect from the academic year 2007-2008.

MUMBAI-400 032

19th November, 2007

for I/c. REGISTRAI

To.

The Principals of the affiliated colleges in Arts Science, Commerce and Home Science

#### A.C./4.02/10.08.2007

No.UG/459 - A of 2007, MUMBAI-400 032

19th November, 2007

Copy forwarded with compliments for information to :-

- 1) The Deans of the Faculties of Arts, Science and Commerce,
- 2) The Chairperson, Ad-hoc Board of Studies in Home Science
- 3) The Officer on Special Duty and Controller of Examinations Section

4) The Co-Ordinator, University Computerization Centre,

for I/c. REGISTRAR

Copy to :-

The Director, Board of College and University Development, , the Deputy Registrar (Eligibility and Migration Section), the Director of Students Welfare, the Executive Secretary to the Vice-Chancellor, the Pro-Vice-Chancellor, the Registrar and the Assistant Registrar, Administrative sub-center, Ratnagiri for information.

The Officer on Special Duty and Controller of Examinations (10 copies), the Finance and Accounts Officer (2 copies), Record Section (5 copies), Publications Section (5 copies), the Deputy Registrar, Enrolment, Eligibility and Migration Section (3 copies), the Deputy Registrar, Statistical Unit (2 copies), the Deputy Registrar (Accounts Section), Vidyanagari (2 copies), the Director University Computer Center (IDE Building), Vidyanagari, (2 copies) the Deputy Registrar, (PRO) . the Assistant Registrar, Academic Authorities Unit (2 copies) and the Assistant Registrar, Executive Authorities Unit (2 copies) . They are requested to treat this as action taken report on the concerned resolution adopted by the Academic Council referred to in the above Circular and that no separate Action Taken Report will be sent in this connection. The Assistant Registrar Constituent Colleges Unit (2 copies), BUCT(1 copy), the Deputy Account, Unit V(1 copy), the In-charge Director, Centralize Computing Facility (1 copy), the Receptionist (1 copy), the Telephone Operator (1 copy), the Secretary MUASA (1 copy), the Superintendent, Post-Graduate Section (2 copies)

WaghVII/DVM/84/191107

# UNIVERSITY OF MUMBAI



Syllabus for M.Phil.degree

in Home Science

(With effect from the academic year 2007-2008)

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Advances in Research and Teaching (Common Paper across All Branches)

Section A: Advances in Research Objectivity and Subjectivity in Scientific Inquiry

Premodern, Modern and Postmodern Approaches to Scientific Inquiry Positivist and Post-Positivist Approaches

Quantitative and Qualitative Research Paradigms

Overview of the Research Process

Priority Areas of Research in Each of the Three Branches/ Priority Areas of Research in Each of the Three Branches

Latest Research Designs and Supporting Quantitative and Qualitative Analytical procedures in Each of the Three Specializations

Ethics in Research

Research/Scientific Writing and Related Communication

Writing Research Proposals/Applying for Research Grants Writing Research Papers Publishing Research Papers Poster and Paper Presentations

Liaison/Networking as a Researcher

#### Section B: Enhancement of the Teaching-Learning Process

Teacher Learning: Goals and Strategies

Goals of teaching Role of the teacher Role of the student

Types of teaching-learning strategies

Best practices in teaching and learning

Educational Technology

Value of educational technology Latest innovations in educational technology

**Educational Assessment** 

Best practices in educational assessment

**Effective Classroom Management** 

Best practices in classroom management

1

**Evaluating Teaching Effectiveness** 

Purpose of evaluation Criteria of evaluation Sources of evaluation Methods of evaluation

Other Topics
Professional ethics in teachers
Course design and curriculum development

References:

Section A: Research

Section Journal of Clinical Nutrition

Andrews, Richard. (2005). Research questions. London: Continuum.

Any, Donald J., Cheser, Lucy, & Razavieh, Asghar. (2002). Introduction to research in education. Belmont, CA: Wadsworth/Thomson Learning.

Bennett, Judith. (2005). Evaluation methods in research. London: Continuum.

Bruce L. (2004). Qualitative research methods for the social sciences. Boston: Pearson Education, Allyn & Bacon.

Bordens, Kenneth S., & Abbott, Bruce C. (2006). Research design and methods: A process approach. N. Delhi: Tata McGraw-Hill.

Boushey, C. (2006). Publishing nutrition research: A review of study design, statistical analyses, and other key elements of manuscript preparation. Part I. Journal of the American Dietetics Association, 106 (1), pp. 89-96.

Child Development

Colourage

Coombes, Hilary. (2001). Research using 1T. Hampshire, Palgrave.

Costello, Patrick J. M. (2005). Action research. London: Continuum.

Cozby, Paul C. (2003). Methods in behavioral research. NY: McGraw-Hill.

Cullen, Karen. (2000). Market research for nutrition professionals: Focus group discussions. Journal of the American Dietetics Association, 100 (11), p. 12.

Developmental Psychology

Finlay, Linda. (1997). Evaluating research articles. Journal of Occupational Therapy, 60 (5), 205-208.

Fraenkel, Jack R., Wallen, Norman E. (2006). How to design and evaluate research in education. NY: McGraw-Hill.

Freudenheim, Jo L. (1999). Study design and hypothesis testing: Issues in the evaluation of evidence from research in nutritional epidemiology. American Journal of Clinical Nutrition, 69 (6), pp. 1315S-1321S.

Jane F., Daly, Kerry, & Handel, Gerald. (Eds.) (1992). Qualitative methods in family

Gilham, Bill. (2005). Case study research methods. London: Continuum.

Hoffman, Ingrid. (2003). Transcending reductionism in nutrition research. American Journal of (1009). Code of ethics for the

JADA. (1999). Code of ethics for the profession of dietetics. JADA, 99, pp. 109-113.

JADA. (2005). E-cheating: Electronic plagiarism. JADA, 105 (7), pp. 1058-1062.

Indian Journal of Dietetics

Indian Journal of Fibre and Textile Research

Indian Journal of Medical Research

Journal of Marriage and Family

Journal of the American Dietetics Association

Kerlinger, Fred N., & Lee, H. B. (2000). Foundations of behavioral research. Orlando: Harcourt College.

Leong, Frederick. & Austin, James T. (Eds.) (1996). The psychology research handbook. Thousand Oaks, CA: Sage.

Man-Made Textiles in India

Manore, Melinda. (2003). Research and the dietetics profession: Making a bigger impact. Journal of the American Dietetics Association, 103 (1), pp. 108-112.

Mattes, R. D. (2000). To read or not to read original research articles: It should not be a question. *Journal of the American Dietetics Association*, 100 (2), pp. 171-174.

May, Tim. (1997). Social research: Issues, methods and process. Buckingham: Open University.

Merrill Palmer Quarterly

Pelham, Brett W. (2003). Conducting research in psychology: Measuring the weight of smoke. Belmont, CA: Wadsworth/Thomson Learning.

Peterson, D. A. (1999). Broadening career opportunities in dietetics: Employment in independent research. *Journal of the American Dietetics Association*, 99 (7), pp. 799-801.

- E. (2001). Statistical and psychobiological significance in developmental research.

  American Journal of Clinical Nutrition, 74 (3), pp. 281-282.
- Rakshit, Arup K. (2002). Research and development activities and achievement. Colourage, XLIX (4), pp. 95-98.
- Research in Childhood Education
- Rimer, S. (September 3, 2003). A campus fad that's being copied: Internet plagiarism seen on the rise. The New York Times.
- Schmidt, Frank L. (1992). What do data really mean? Research findings, meta-analysis and cumulative knowledge in psychology. American Psychologist, October, pp. 1173-1181.
- Shaughnessy, John, & Zechmeister, Eugene B. (2000). Research methods in psychology. Boston: McGraw-Hill.
- Sommer, Barbara, & Sommer, Robert. (1997). A practical guide to behavioral research. NY:
- Teachman, Jay. (2002). Multilevel model in family research: Some conceptual and pethodological issues. Journal of Marriage and the Family, 64 (2), pp. 280-294.
- Trostler. Naomi. (2003). Blending practice and research: Practice-based research networks an opportunity for dietetics professionals. *Journal of the American Dietetics Association*, 103 (5), pp. 626-632.
- Wellman, Nancy S. (1999). Do we facilitate the scientific process and the development of dietary guidance when findings from single studies are publicized? American Journal of Clinical Nutrition, 70 (5), pp. 802-805.
- WHO. (1993). Health research methodology: A guide for training in research methods. Delhi: Oxford University.

- Stephen D. Harrison, C., Lee, C., Marshall, D., and William, D. (2004). Working inside the blank box: Assessment and learning in the classroom. Ph. D. le W. box: Assessment and learning in the classroom. Phi Delta Kappan, 86.
- M. Ketteridge, S. & Marshall, S. (2003). A handbook for teaching and learning in higher education: Enhancing academic practices. London: Routledge.
- Hennian, A. (2005). Innovating in higher education: Context for change in learning technology. British Journal of Educational Technology, 36 (6), p. 975.
- journal of Educational Technology
- Journal of Higher Education
- Rienzier, D. S. (2004). Teaching ethics isn't enough: The challenge of being ethical teachers. The Journal of Business Communication, 41.
- Morzano, R. J., & Morzano, J. S. (2003). The key to classroom management. Alexandria, VA: Association for Supervision and Curriculum Development.
- Race, P., & Brown, S. (2001). The lecturer's toolkit: A practical guide to learning, teaching and assessment. London: Routled ge.

6

- Ramsden, P. (2003). Learning to teach in higher education. London: Routledge.
- Stiggins, R., Arter, J., & Chappurs, J. (2003). Implementing assessment for learning. www.assessment.com
- Trennolm, S., & Jenson, A. (2000). Interpersonal communication. Wadsworth.

## DEPARTMENT OF FOODS, NUTRITION & DIETETICS

#### FAPER II ADVANCES IN NUTRITION

Marks: 100

## UNIT I: RECENT ADVANCES IN HUMAN NUTRITION

- Cellular Nutrition Role of different nutrients in regulation of Gene Expression.
- Role of Nutrients in regulation of food intake.
- Photochemical & micronutrients.
- Interrelationships of Nutrients
- Nutrition, Immunity & Infections
- Nutritional Imbalances & Adaptations.
- Nutrition, Genetics & Obesity
- Maternal & Foetal Nutritional aspects
- Geriatric Nutrition
- Sports & Exercise Nutrition
- Space Nutrition

#### UNIT II : RECENT ADVANCES IN COMMUNITY NUTRITION

- · Vital statistics & indices of Health & Nutritional Status.
- Markers of Nutritional status & Assessment
- Nutrition & health policy.
- Effectiveness of Nutrition Intervention & Education programs & Projects.
- · Prevention & treatment of Micronutrient deficiencies in community.
- Communication for Behavioral change (CBC)

#### INIT HI CONTEMPORARY ISSUES IN NUTRITION

#### BIBLIOGRAPHY -- PAPER II - ADVANCES IN NUTRITION

Bamji, Mahtab, S. and Rao (1996), "Textbook of Human Nutrition" Pub - New Delhi, Oxford and IBM Publishing Co-Private Ltd.

2. Bernard D (1999), "Nutrition for Serious Ahletes: An advanced Guide". Pub –

Campaign, IL, Human Kinetics.

- Bhargav, Priya and Chand, Tara (2005), "Food and Nutrition". Pub New Delhi, Commonwealth Publishers.
- Boyle, Marie A. and Holben, David H. (2006) Fourth Edition, "Community Nutrition in Action". Pub - Belmont, CA, Thomson / Wasworth.

5 Burke, House., (ED) and Deakin, Vicky (ED). (2006), Third Edition, "Clinical Sports

Nutrition" Pub - London Mosby /Elsevier Ltd.

- 6. Carolyn D. Berdanier (2002), "Handbook of Nutrition and Food". Pub CRC press LLC.
- 7. Catherine Geissler & Hilary Powers. (2005), 11th Edition, "Human Nutrition", Edinburgh London New York Oxford PhiladelphiaSt Louis Sydney Toronto.

g. Croft J.C. (1999), "Advance Nutrition and Human Metabolism". Pub - Belmont, CA,

Wadsworth Thonson Learning.

- 9. Dass, Sujata K. (2004), "Changing trends in health and nutrition, Vol 3: Food and Nutrition Security: Urban challenges ". Pub Delhi Isha Books.
- 10. Davidson (Sir), Stanley, 8th Edition, "Human Nutrition and Dietetics". Pub Edinburgh Churchill Living Stone and ECBS.
- 11 Garro J.S (1993) 9th Edition, "Human Nutrition and Dietetics". Pub New York, Churchill Living Stone.
- 12. Insel, Paul and Turner, R. Elaine and Ross, Don (2006), Second Edition, "Discovering Nutrition" Pub - Sadbury, M.A., Jones and Barlett Publishers.
- 13. Inset, Paul and Turner, R. Elaine and Ross, Don (2004), Second Edition, "Nutrition" Pub - Sud bury, MA, Jones and Barlett Publishers.
- 14. McArdle, William. D. and Katch, Franmk I. (2004) Second Edition, "Sports and Exercise Nutrition". Pub - Philadelphia, Lippuicott Williams and Wilkins A Wolters KC.
- 15. Mishara, Kuchi (2006), "Health for All Today and Tomorrow. Pub New Delhi, Adhyayan Publishers and Distributors.
- 16. Narasinga Rao, B.S. (2005) "Development of Nutrition Science in India" Pub New Delhi Allied Publishers Pvt. Ltd.
- 17. Sachdev H.P.S. (ED) & Chauday Panna (ED) (2004) "Nutrition in Children: Developing Country concerns". Pub - New Delhi B.I. publication Pvt. Ltd.
- 18. Sadler M.J. (1999), "Encyclopedia of Human Nutrition" Pub San Diego Academic Press.
- 19. Sen, Amit (2005) Health Education & Nutrition", Pub Delhi, Isha Books.
- 20. Shiles, Maurice, E (ED) and Sheke, Moshe (ED) (2006), 10th Edition, "Modern Nutrition in Health and Disease" Pub - Philadelphia, Lippuicott Williams & Wilkins - A Wolters KL.

Supanik, Martha. (2006), Second Edition, "Biochemical, Physiological, Molecular Lenecis of Human Nutrition". Pub – Missouri Saudin (2006) Aspecis of Human Nutrition". Pub – Missouri, Saunders / Elsevier. Aspecia, Janice & Monroe Melinda "Nutrition: An Applied Approach" Pub – San 22 repressoo, Pearson Education, Inc. / Representation

Francisco, Pearson Education, Inc. / Berycecriees Cumming.

Francisco Ted (ed) and Temple Norman J. (ed), (2004), "Beverages in Nutrition and Italih" Pub New Jersey Humana Prans Inc. Health" Pub New Jersey Humana Press Inc.

#### Department of Human Development

## Paper II, Option B: Advanced Study of Human Development

Explanations for the Manner in Which Human Development Proceeds principles of Development Gene-Environment Influences

Development in Each Domain:
Physical Development
Motor Development
Cognitive Development
Language Development
Emotional Development
Attachment
Development of the Self
Personality Development
Social Development
Spiritual Development
Family Development

mences: wild Development

W. & Lerner, R. M. (Eds.) (1998). Handbook of Child Psychology, Vol 1: Theoretical models of human development. NY: John Wiley. W. W. Man development. NY: John Wiley.

W., Kuhn, D., & Siegler, R. S. (Eds.) (1998). Handbook of Child Psychology, Vol 2: Cognition, profiperception and language. NY: John Wiley. W., 12 (1998) (1998) Wiley. perception and language. NY: John Wiley.

W., & Eisenberg, N. (Eds.) (1998). Handbook of Child Psychology, Vol 3: Social, emotional, and personality development. NY: John Wiley.

W., Sigel, I. E., & Renninger, K. A. (Eds.) (1998). Handbook of Child Psychology, Vol 4: Child instruction of the practice. NY: John Wiley psychology in practice. NY: John Wiley.

G.B., Sroufe, L. A., & Cooper, R. G. (2004). Child development. Its nature and course. NY: McGraw-Hill.

Mangelsdorf, S. C., & Pomerantz, E. (Eds.) (1998). Current readings in child development. Boston: Allyn & Bacon.

prelopmental Psychology

Researching children's experience. Approaches and methods. New Delhi: Sage.

formal of Marriage and Family

Insen. R. J., & Buss, D. M. (2005). Personality psychology. Domains of knowledge about human nature. NY: McGraw-Hill.

Lemme, B. H. (2002). Development in adulthood. Needham Heights: Allyn & Bacon.

Merrill Palmer Quarterly

Momin, R., DeFries, J. C., McClearn, G. E., & Rutter, M. (1997). Behavioural genetics. NY: W.H. Freeman.

Memberg, R. J. (2003). Cognitive psychology. Belmont, CA: Wadsworth/Thomson Learning.

Innbauer, B. J., Pargament, K. I., & Scott, A. B. (1999). The emerging meanings of religiousness and spirituality: Problems and prospects. Journal of Personality, 67 (6), 889-919.

## DEPARTMENT OF TEXTILES & FASHION TECHNOLOGY

# PAPER II - CURRENT TRENDS IN FIBRES, PROCESSING & FINISHING (MARKS 196)

## SECTION I – TECHNICAL TEXTILE FIBRES

- Birth of new fibres
- . Transition to new fibres
- . High-touch fibres
- , New high-tech fibres & skin-gosen
- · High-performance fibres
- NASA Advancing Ultra-performance
- Textiles from novel means of innovation
- Fibres of the next millennium

#### SECTION II - PROCESSING AND FINISHING

- Textile processing & properties
- · Finishing of technical textiles
- · Heat and flame protection
- · Water proof breathable fabrics
- Medical textiles
- · Textiles in defense
- Textiles in filtration
- Textiles in transportation
- Textiles for survival
- Fabrics with improved aesthetics & functional properties
- Textile performance : end use & relevant tests
- Biotechnology in processing & finishing
- Fabrics & finishes for the future.

# Section 1: Fibers

- Chernyshova N, 1973, "Chemical Technology Of Fibrous Materials". Moscow, Mir Publishers
- 2. Mishra S P, 2000, "A Textbook Of Fiber Science And Technology". New Delhi, New Age International (P) Ltd
- 3. Carter Mary, 1971, "Essential Fiber Chemistry". New York, Marshall Dukker Inc.
- Balter A F, 1998, "Handbook Of Textiles". Chandigarh, Abhishek Publications.
- 5. Hall A J, 1975, "The Standard Book Textiles"8th Edition. India, Newness-Butterworths
- 6. Common Mary L, Jungerman Martha E,1980, "Introduction To Textiles". India, Taraporewala Sons And Co Pvt Ltd.
- 7. Cook Gordan J, 2001, "Textue Fibres Volume 1- Natural Fibers". England, Woodhead Publishing Ltd
- 8. Corbman Bernard P,1983, "Textiles Fibers To Fabric". Mcgraw Hill International Edition.
- 9. Corbman, Bernad P., 1975, "Textiles: Fiber To Fabric, 5th Edition", Mc Granthill Book Company,
- 10. Potter, M. David And Corbman, Bernard P., 1967 "Fiber To Fabric" Mc. Graw Hill Co. Gregg Division.
- 11. Warner, Steven, B., 1996 "Fiber Science", Prentive Hall, Inc., 1995
- 12. Levin, Menachem And Preston, Jack (Ed), "Handbook Of Fiber Science And Technology, Vol 3: High Technolog Fibers Part I" Marcel Dekker Inc.
- 13. Mishra S. P., 2000, "Textbook Of Fiber Science And Technology" New Age Int. Pvt. Lid.
- 14. Hess, Katharine Paddock, 1996, "Textile Fibers And Their Use", Oxford And Ibh Publishing Co. Pvt Ltd
- 15. Hess, Katharine Paddock, 1958 "Textile Fibers And Their Use", 6th Edition, Oxford And Ibh Publishing Co. Pvt Ltd.
- 16. Needles. Howard L., 1986," Textile Fibers, Dyes, Finishes And Processes: A Consise Guide. Noves Publications.
- 17. Datyl, Keshav V. And Vaidya, A. A., 1984 " Chemical Processing Of Synthetic Fibers And Blends", John Wiley And Sons, Inc.
- 18. Robinson, J.S. (E.D.), 1986, "Spinning Extruding And Processing Of Fibers: Recent Advances". Mahajan Book Distributors.
- 19. Robinson, J. S. (E.D.),1996, "Manufacture Of Yams And Fibers From Synthetic Fibers", Mahajan Book Distributors.
- 20. Hongu, Tatsuva And Phillips, Glyl, O., 1997 "New Fibers", 2nd Edition, Woodhead
- 21. Berkstresser Iii, G.A., Buchanan, D. R., Grady, P.L., 1995, "Automation In Textile Industry: From Fibers To Apparel", Textile Institute.
- 22. Jeffries, R., 1971, "Biocomponent Fibers. (A Merron Monograph), Woodhead Publishing
- 23. Cook, J. Gordon, 2001, "Handbook Of Textile Fibers Vol 1: Natural Fibers", 5th Edition, Woodhead Publishing Ltd.

# Section II Processing & Finishes /Finishing

- Braddock, Sarah, E. And O'mahany, Marie, 1998, "Techno Textiles-Revolutionary Fabrics For Fashion And Design", Thames And Hudson Ltd.
- 2. Arora, S.M., 1984, "Modern Techniques Of Textile Dyeing Bleaching And Finishing", Small Industry Research Inst.
- 3. Shenai (Dr.) V.A And Saral, N.M., 1990, "Technology Of Textile Finishing", 2<sup>nd</sup> Edition, Sevak Publications.
- 4. Nalankilli, G And Jayprakasan, S., 1997, "Textile Finishing", S.S.N Institute Of Textile
- 5. Edge, J.H., 1998, "Practical Cotton Finishing", Abhishek Publications.
- 6. Beapark, I., Marriote, F.W., James, P, 1986, "A Practical Introduction To The Dyeing And Finishing Of Wool Fabrics", 1st Edition, Society Of Dyers And Colourists.
- 7. Routte, Hans-Karl, 2001, "Encyclopedia Of Textile Finishing", Volume 1 (A-F) 4th Edition, Springer Verlag.
- 8. Schilndler, W.D And Hauser, P.J, 2004, "Chemical Finishes Of Textues", Woodhead
- 9 Burkrishaw, S.M., (1995), "Chemical Principles Of Synthetic Fibre Dyeing". Blackie Academic & Professionals, London.
- 10. Broughton, Kate., (1995), "Textile Dyeing: The Step By Step Guide & Showcase". Rockpost Publishhers Inc, Rockpost.
- 11. Brannt, W.T.(E.D.),(2000), "Dry Cleaning, Scouring, Dyeing Of Garments, Furs &Rugs". Abhishek Publication, Chandigarh.
- 12. Dean, Jenny., (1994), "The Craft Of Natural Dyeing". Search Press, Kent.
- 13. Eri 2000 Programme, (2002), "Colours From Nature: Silk Dyeing Using Natural Dyes". Oxford & Ibm Publicating Co. Pvt. Ltd., New Delhi.
- 14. Gulrajani, M.L., (1990), "Wool Dyeing & Printing". I.I.T.-Dept. Of Textile Technology, New Delhi.
- 15. Hurst, G.H., (1998), "Silk Dyeing, Printing & Finishing". Abhishek Publication, Chandigarh.
- 16. Park, J., (1990), "A Practical Introduction To The Continous Dyeing Of Weven Fibres". Roaches Engineering Ltd., Staffordshire.
- 17. Pellew, C.E., (1998), "Dyes & Dyeing". Abhishek Publication, Chandigarh.
- 18. Prayag, R.S., (1990), "Bleaching, Mercerising & Dyeing Of Cotton Materials". Dharwad.
- 19. Shenai, V.A., (1993), "Dyeing Of Silk". Sevak Publication, Bombay.
- 20. Shenai, V.A., (1993), "Technology Of Textile Processing Vol2 Chemistry Of Dyes & Principles Of Dyeing". Sevak Publication, Bombay.
- 21. Shenai, V.A., (1994), "Technology Of Textile Processing Volo Technology Of Dyeing". Sevak Publication, Bombay.
- 22. Trotman, E.R., (1994), "Dyeing & Chemical Technology Of Textile Fibres". New Delhi Publication Pvt. Ltd., New Delhi.
- 23. Vigo, Tyrone, L., (1994), "Textile Processing & Properties (Preparation, Dyeing, Finishing & Performance)". Elsenier, Amesterdam.

24. Cheetam, R.C., (1966), "Dyeing Fiber Blends: The Processing Of Blends Union And Mixture Containing Natural Or Man-Made Fibers". D. Van Nostrand Co. Inc., London.

25. Gulrajani, M.L., (1993), "Chemical Processing Of Silk". IIT.- Dept. Of Textile Technology, New Delhi.

- 26. Manivasakam, N. (1995), "Treatment Of Textile Processing Effluents (Including Analysis)". Sakhi Publication, Coimbatore.
- 27. Niir- National Instt. Of Industrial Research, (2006), "The Complete Technology Book On Textile Processing With Effluent Treatment". Asia Placific Business Press Inc., Delhi.
- 28. Palmer, John, W. (1996), "Textile Processing And Finishing Aids: Recent Advances".

  Mahajan Book Distribution (Noyes Data Corp.), Ahemedabad.
- 29. Shenai, V.A., (2003), "Technology Of Textile Processing: Vol. Iii: Technology Of Bleaching And Mercerizing", 3<sup>rd</sup> Ed. Ed. Sevak Publication, Mumbai.
- 30. Shenai, V.A., (2002), "Technology Of Textile Processing: Vol. V: Chemistry Of Textile Auxiliaries", 2<sup>nd</sup> Ed. Ed. Sevak Publication, Mumbai.
- 31. Shenai, V.A., (1999), "Technology Of Textile Processing: Vol. X: Technology Of Textile Finishing", 3<sup>rd</sup> Ed. Ed. Sevak Publication, Mumbai.
- 32. Shenai, V.A., (1996), "Technology Of Textile Processing: Vol. VIII: Evaluation Of Textile Chemicals", 2<sup>nd</sup> Ed. Sevak Publication, Mumbai.
- 33. Shenai, V.A., (1994), "Technology Of Textile Processing: Vol. VI: Technology Of Dyeing". Sevak Publication, Mumbai.
- 34 Shenai, V.A., (1993), "Technology Of Textile Processing: Vol. V: Chemistry Of Dyes And Principles Of Dyeing", 3<sup>rd</sup> Ed. Sevak Publication, Mumbai.
- 35. Shenai, V.A., (1991), "Technology Of Textile Processing: Vol. II: Technology Of Bleaching And Mercerizing". Sevak Publication, Mumbai.
- 36. Shenai, V.A., (1991), "Technology Of Textile Processing: Vol. I: Textile Fibres", 2<sup>nd</sup> Ed. Sevak Publication, Mumbai.
- 37 Shenai, V.A., (1991), "Technology Of Textile Processing: Vol. I: Textile Fibres", 3<sup>rd</sup> Ed. Sevak Publication, Mumbai.
- 38. Shenai, V.A., (1990), "Technology Of Textile Processing: Vol. IV: Technology Of Printing". Sevak Publication, Mumbai.
- 59. Shenai, V.A., (1977), "Technology Of Textile Processing: Textile Fibres". Sevak Publication, Mumbai
- 40. Vigo, T.L. (1994), "Textile Processing And Properties (Preparation, Dyeing, Finishing And Performance)", 1st Ed. Ed. Elsevier, Amsterdam.

#### DEPARTMENT OF FOODS, NUTRITION & DIETETICS

**MARKS: 100** 

#### Paper III (Option A): Electives

## Unit I: ISSUES IN CLINICAL NUTRITION

- Metabolic Syndrome Preventive aspects
- Childhood Obesity & Diabesity Prenentive aspects
- Cancer ...... Preventive & curative role of Nutrition
- Nutrition & critical care
- > Traditional Nutritional Remedies
- > Alternate Therapies
- > Aids & Nutrition
- Nutritional management of diseases in special conditions/sports/persons/Astraunauts etc.
- > Food service management in hospitals & other healthcare institutes.

#### Unit II: FOOD SCIENCE & TECHNOLOGY

- > Applications of Biotechnology & Fermentation Technology
- > Functional foods & Nutraceuticals
- > Food Quality & Food Safety
- > Modern techniques of Food processing & Preservation

#### BIBLIOGRAPHY Paper III (Option A) Electives

- 1. Rick Parkar (2003)
  "Introduction to Food Science"
  Library of congress cataloging in Publication.
- 2. Lawless Hayman
  "Sensory Evaluation of Food Principles and Practice Kluwer Academic / Pleneum
  Publishers.
- 3. NIR National Institute of Industrial Research Delhi "Food Colours, flavours and additive Technology Handbook'
- 4. Vangardu, S.J. and Wood burn M. "Food Preservation and Safety: Principles and Practice": 1Ed. (1999) Pub: Surabhi Publications Jaipur.
- 5. a) Urvi B.
  Concise Encyclopaedia of Food, Nutrition, Dietetic and Technology. Vol I (A-D) (1998)
  Pub: New Delhi, Sarup and Sons 1998
  - b) Urvi B
    Concise Encyclopaedia of Food Nutrition Dietetics and Technology vol II (E- N)
    (1998)
    Pub: New Delhi, Sarup and Sons (1998)
- c) Ururi B
  Concise Encyclopaedia of Food, Nutrition, Dietetics and Technology vol. 3 (0-2) (1998)
  Pub: New Delhi, Sarup and Sons 1998.
- 6. Indian Institute Packaging (1998)"Modern Food Packaging"Pub: Indian Institute Packaging 1998
- P.J. Fellows (1997)
   "Food Processing Technology Principles and Practice"
   Pub: Wood Read Publishing series in Food Science & Technology.
- 8. Dennis Lillicrap, John Cousins and Robert Smith 6 E (2002) Food and Beverage Services" Pub: Book Power.

- 9. D.K. Salunkhe, S.S. Kadam (1998)
  Handbook of vegetables science and technology
  Pub: Marcel Dekker Inc. (New York.Basal)
- U.S. Department of Agriculture 1999 (2Ed) Complete Guide to Home Canning and Preserving.

  Pub: Dover Publication, Inc. Mineola, New York.
- Jeffery M. Farber, Ewen C.D. Todd. 2000 Safe Handling of Foods Pub: Marcel Dekker Inc. (New York) Basel.
- 12. N.L. Kent and A.D. Evers (2004), 4th Ed.
  Technology of Cereals
  Pub: Wood Read Publishing Limited Abington Hall, Aington.
- 13. Meera Rao Patankar and Pushpa Bharati, IEd (2001) "Food Preparation – A scientific Approach Pub: Anmol Publications Fvt. Ltd. New Deini.
- 14. S.N. Mahindru (2004)
  "Food contaminants Origin, Propogation & Analysis
  Pub : S.B. Nangia, A.P.H. Publishing Corporation, New Delhi
- 15. N. Shakuntala Manay & M. Shadaksharaswamy2Ed. (2001)Foods Facts and PrinciplesNew Age International (P) Limited (New Delhi)
- 16. Uicki A. Vaclarick & Elizabeth W. Chriastian
   2<sup>nd</sup> Ed (2003)
   Essentials of Food Science
   Pub: Khuwer Academic / Plenum Publishers, New York.
- 17. SBP board of consultants and Engineers (1998)
  SBP Handbook of oilseeds, Oils. Fats and DeriDerivative
  Pub: SBP consultants and Engineers Pvt. Ltd. Delhi.
- 18. Bernard Davis Andrew Lockwood and Sallystone 3<sup>rd</sup> Ed. (1998) 'Food & Beverage Management' Pub: Elsevier, A division of reed Elsier India Pvt. Ltd.
- 19. NIIR Board of Consultants & Engineers
  The complete book on coconut & coconut products.
  Pub: Casia Pacific Business Press Inc.

- J.S. Pruthi volume I (1999)

  Quick Freezing Preservation of Foods Principles Practices, R & O needs.

  Pub: Allied Publishers Limited, New Delhi
  - b) J.S. Pruthi volume II (1999)
    Quick freezing Preservation of Foods.
    Principles Practices, R & D Needs
    Pub: Allied Publishers Limited, New Delhi
- 21. F.C. Blank (1999)
  Handbook of Food & Nutrition
  Pub: Agro Botanicas Publishers India.
- 22. S.N. Tripathy (2004) 1st Ed Food Biotechnology Pub: Publishers and distributors.
- 23. Fellows P.J. (1996)
  Food Processing Technology: Principle and Paractice
  Pub: Cambridge, wood and Publishing Ltd.
- 24. National Institute of Industrial research
  'Wheat, Rice, Corn, Oat, Barley and Sorghum Processing Handbook.
  Pub: Delhi, Asia Pacific Business Press Inc.
- Sohrab (2001)
   A Practical guide for Implementation of Interated ISO 9001 HACCP system for Food Processing Industries
   Pub : Allied Publishers Pvt. New Delhi
- 26. Das, H. 2005 Food Processing Operations Analysis Asian Books Pvt. New Delhi
- 27. Fellows, P.Small scale Food ProcessingA guide to appropriate equipmentIntermediate Technology Pub. London.
- 28. Ahluwalia, Vikas 2Ed 2007 Food Processing Paragon International Publishers New Delhi

- 29. God, P.K.

  Technology of Food Products (Food processing industries Series No.29)

  Pub: Small business Publication Delhi
- 30. CFTRI

  Home Scale processing and Preservation of fruits and vegetables.

  CFTRI Mysore
- 31. Smith, J. Scott 2004
  Food Processing: Principles and application Blackwell Publication Ltd, Oxford.
- 32. Gregoine Mary B, spears Marian C (2007) 6 Ed. Food services organization.
  Pub. Pearson Prentice Hall, New Jersey USA
- 33. Payne Palacio, Theis Monica (2005) Tenth Edition, Introduction to Food Services Pub. Pearson Prentice Hall, New Jersey USA.
- 34. Stanley Carmain and Linda Young 'Bakery products science, Technology and Practice Culinary and Hospitality Industry Publication Services.
- 35. Y.H. Hui
  Bakery Products science and Technology
  Culinary and Hospitality Industry Publication Services
- 36. G.R. Gibson Prebiotics Development and Application Culinary and Hospitality Inuistry Phlication services.
- 37. A.Y. Tamine
  Probiotic Dairy products society and dairy Technology.
  Culinary and Hospitality Industry Publication.
- 38. P.F. Fox and P.L.H. McSweeney
  Advanced Dairy chemistry Volume I Protein
  3<sup>rd</sup> edition.
  Culi and H.I. Publications Services.
- 39. Gribney, Micael J. (ED) and Nutrition Society (2005) "Clinical Nutrition". Pub Oxford, Blackwell Science / Blackwell Pulishing Co.
- 40. Kartik, Charu (2005), "Nutrition in Diabetes". Pub New Delhi, B.I. Publications Pvt. Ltd..

- Gibney, Michael J. (ED) and others (2004), "Pubic Health Nutrition" Pub Oxford, Blackwell Science / Blackwell Publishing Co.
- Mahan L. Kathleen and Escott stump, Sylvia (2004), 11th Edition, "Krause's Food Nutrition and Diet Therapy". Philadelphia, Saunders / Elsevier.
- 43. Shiles, Maurice, E (ED) and Sheke, Moshe (ED) (2006), 10<sup>th</sup> Edition, "Modern Nutrition in Health and Disease" Pub Philadelphia, Lippuicott Williams & Wilkins A Wolters KL.
- 44. Stupanik, Martha. (2006), Second Edition, "Biochemical, Physiological, Molecular Aspects of Human Nutrition". Pub Missouri, Saunders / Elsevier.
- 45. Issues in the Regulation of Genetically Engineered plants and Animals
  Biotechnology G.M. Foods
  Attp://www.who.mt/food safety/biotech/en/
  Heat Science and Technology.
  Attp://www.inomit.con.br/

Food Safety and Nutrition Information Attp://ifil.org/feod/

Prebiotics – Development and Application Probiotic Dairy Products

#### <u>Journals</u>

Food Science and Technology International
Journal of Food Processing and Preservation
Journal of Food Quality
Journal of Food Science
Journal of Sensory Studies
Journal of American Dietetics Association

# Paper III, Option B, Elective I: Early Childhood and School Education and Administration

Early Childhood Education

The Development of Curriculum Models

Curriculum Development

Evaluation of Curriculum Models

Challenges and Future Trends

Conducting Research in Early Childhood Education

# School Administration and School Education

Cross-Cultural Comparisons of School Systems

Schools of Excellence

Best Practices in Education

School Administration Issues Pertaining to:

Students

Teachers

Parents

Administrators

Special Educators and Counselors

Clerical Staff

Support Staff

Community

Policy-Making

Challenges and Future Trends

Conducting Research in School Administration and School Education

## Paper III, Option B, Elective II: Psychopathology and Well-Being Across the Lifespan

#### Clinical Psychology

Mental Health Issues in Children, Adolescents, and Adults

Latest Developments in Theoretical Perspectives

Risk, Resilience, Continuity and Discontinuity in Developmental Pathways

Domains of Psychopathology (e.g., child abuse and neglect; conduct disorder; ADHD;

anxiety disorders; personality disorders; learning and communication disorders)

Latest Trends in Assessment, Diagnosis and Treatment

Policy-Making and Services

**Ethics** 

Challenges and Future Trends

Conducting Research in Clinical Psychology

#### Counseling Psychology

Recent Developments with regard to Goals/Approaches/Target Groups

Cross-Cultural Comparisons of Counseling Models

Licensing and Certification/Professional Development of Counselors

Consultation and Collaboration

Multicultural Counseling

Assessment/Evaluation of Counseling

Challenges and Future Trends Conducting Research in Counseling

Conducting Health Research

Health Psychology Changing Field of Health Psychology Understanding and Negotiating/Coping with Stress and Pain Living with Chronic Illness Mind-Body Connection and the Concept of Wellness Domains of Wellness Creating Wellness Ethics Challenges and Future Trends

Special Education Domains of Special Education (e.g., the visually challenged, the auditorily challenged) Policy-Making Challenges and Future Trends Conducting Research in Special Education

Higher Education Issues in Higher Education Folicy-Making Challenges and Future Trends Conducting Research in Special Education forences:

Working with chronic illness. Houndmills: MacMillan.

appeal Editions of the NAEYC's Early Childhood Education

Muzzi, D., & Gross, D. (1999). Counselling and psychotherapy: Theories and interventions. New Jersey: Merrill.

R. C., & Butcher, J. N. (1992). Abnormal psychology and modern life. NY: Harper Collins.

thid Development

galahood Education

<sub>wedopm</sub>ental Psychology

Eva L. (2003). Introduction to early childhood education. Clifton Park, NY: Delmar Learning Division of Thomson Learning.

Learning. D. M., & Drew, C. J. (2003). Child behavior disorders. Belmont: Wadsworth/Thomson

italiam, P., Turk, J., & Verhuist, F. C. (1999). Child psychiatry. NY: Oxford University Press.

gandbooks of Child Psychology

Hardman, Michael L., Drew, Clifford J., & Egan, M. Winston. (1999). Human exceptionality. Society. school, and family. Boston: Allyn and Bacon.

Harvard Educational Review

Hoeger, W., Turner, L., & Hafen, B. (2002). Wellness: Guidelines for a healthy life style. Australia: Wadsworth/Thomson Learning.

Journal of Abnormal Psychology

Journal of Consulting and Clinical Psychology

Journal of Counseling Psychology

Journal of Health Psychology

Journal of Higher Education

Journal of Marriage and Family

Research in Childhood Education

palmer Quarterly

S., Dainow, S., & Miller, P. (Eds.). (1996). Counselling: The BAC counselling reader. "London: Sage.

H. (2001). Favourite counseling and therapy homework assignments. Philadelphia: Taylor & Francis.

Mod Administrator

C. (2001). Interpersonal processes in psychological problems. NY: Guilford.

not. S. E. (2006). Health psychology. NY: Tata McGraw-Hill.

procks, Cole. Rudolph, L., & Henderson, D. A. (2004). Counselling children. Australia: Thomson, Brooks, Cole.

inkins, E., & Campbell, V. L. (2000). Testing and assessment in counseling practice. New Jersey: Lawrence Erlbaum.

#### DEPARTMENT OF TEXTILES & FASHION TECHNOLOGY

Paper III (Option C): Electives

(MARKS 199)

# Elective I – MANAGEMENT OF GARMENT MANUFACTURE IN THE GLOBAL ECONOMY

Overview of the Global Apparel Industries

Managing productivity in garment industry

Mergers/ MNC's - New strategies in garment manufacture

Quality management in garment industry

## Elective II - MANAGEMENT OF GARMENT TRADE IN THE GLOBAL ECONOMY

Brands and brand image

. New trends in garment retailing

• Fashion shows, fairs, exhibitions and events

Latest fashion forecast

· Fashion marketing research

Planning and executing purchases

## BIBLIOGRAPHY: Paper III (Option C) Electives

#### Elective I - Management Of Garment Manufacture In The Global Economy

- 1. Ajgaonkar, D.B., 1996, "Modern Technology Management In Textiles", Mumbai, The Textile Association Of India.
- Bheda, Rajesh, 2003, "Managing Productivity In The Apparel Industry", Cbs Publishers And Distributors.
- 3. Brannt, W.T.(E.D.), (2000), "Dry Cleaning, Scouring, Dyeing Of Garments, Furs & Rugs". Abhishek Publication, Chandigarh.
- 4. Brown, Patty And Rice Janett, 2000, "Ready To Wear Apparel Analysis", 3<sup>rd</sup> Edition, Prentice Hall, Inc.
- 5. Brown, Patty, 1992 "Ready To Wear Apparal Analysis", Macmillan Publishing Co. Inc.
- 6. Cooklin, G, 1997, "Garment Technology For Fashion Designers", 1st Edition, Om Book Services.
- 7. Dickerson, K.G., 1999, "Textiles And Appare! In The Global Economy", Merrill/Prentice Hall, Inc.
- 8. Kantilal, Ila, 1990, "The Apparel Industry In India (State Of The Art Report No.1)"National Information Centre For Textile And Allied Subject.
- 9. Kothari, V.K., 1999, "Testing And Quality Management", New Delhi, Iafl Publications.
- 10. Majumdar, Ramanuj, 1993, "Product Management In India", New Delhi, Prentice Hall of India Pvt Ltd.
- 11. Mehta, Pradip, 1992, "An Introduction To Quality Control To Apparel Industry", Asqc Quality Press.
- 12. Tyler, D., 1991, "Materials Management In Clothing Production, Oxford, Bsp Professionals Books.

#### Elective II - Management Of Garment Trade In The Global Economy

- 1. Bajaj, Chetan And Tuli, Rajnesh, 2005, "Retail Management", Oxford University Press.
- 2. Berkowitz, Kerin, Hartley, Redlius (1994). "Marketing" 4<sup>th</sup> Edition. America, Library Of Congress Cataloging- In Publication Data
- 3. Berman, Barry And Evans, Joel R., "Retail Management A Strategic Approach", Prentice Hall.
- 4. Chan, Linda & Robinson Joseph (1984). "A Practical Guide To Visual Merchandizing". New York. John Wiley & Son
- 5. Dani, L.M., 1990 "Industrial Organisation And Management", Bombay, Manan Prakashan.
- 6. Davar (Dr.), Rustom S, 1992, "Modern Marketing Management", New Delhi, Universal Book Stall.
- 7. Easey Mike (1995). "Fashion Marketing" 2nd Edition. London, Blackwell Science Ltd.
- 8. Gandhi J.C (1996) "Marketing. New Delhi, Tata Mcgraw Hill Publishing Company Ltd.
- 9. Goodman Stanley (1984) "Fashion Advertising And Promotion" 6<sup>th</sup> Edition. America Fairchild Publications.