

MOTHER TERESA WOMEN'S UNIVERSITY
DEPARTMENT OF HOMESCIENCE
PHD COURSE WORK SYLLABUS

EARLY CHILDHOOD CARE AND EDUCATION

UNIT I

Introduction to Childhood Education

Significance, Objectives, Types of preschools/programmes. Concept of formal, non-formal and play way methods. Basic principles of developmentally appropriate practices and their need.

UNIT II

ECCE in India

Contribution of Five Year Plans to ECCE, Contribution of National Agencies and programmes to ECCE: ICCW, IAPE, NCERT, UNICEF, ICDS, Early Childhood Education in Contemporary India

UNIT III

Organization and Management of Pre-school Centers

Physical setup in Building, Furniture, Equipment and Materials, Personnel for preschools in Teaching & Non-Teaching, Management of Preschools ñ Budgeting, Administration and Records, Defining quality in preschool programmes: ratio, child adult interaction, physical environment, staff consistency, Organizing and structuring the physical environment, disaster management

UNIT IV

Programme Planning

Principles of programme planning, Long term and short term planning, weekly and daily planning, routine and schedules, Planning developmentally appropriate curriculum (scheduling), Designing and maintaining outdoor and indoor space, Maintenance of records; Materials, indoor and outdoor equipment

UNIT V

Activities for ECCE

Language, Art and Craft activities, Music, movement and aesthetics, Mathematics, Science, Social studies, dramatization, reading and writing readiness, Activities to promote socioemotional development, physical and motor development, Play, Methods of engaging with children. Need for Parent - Teacher meeting, Parental awareness program

References

1. Aggarwal J. C., Gupta S. (2007) Early Childhood Care and Education: Principles and Practices (Paperback) Shipra Publications
2. Curtis, A, O'hagan, M, (2009) Care and Education in Early Childhood: A Student's
3. Gupta , S.M Early Childhood Care and Education (Paperback)Phi Learningpublishers
4. <http://www.educationforallinindia.com>
5. Krogh, S.L, Slentz K L. (2010) Early Childhood Education: Yesterday, Today, and Tomorrow (Paperback) by Publisher: Routledge
6. Morrison, G.S. (2011) Early Childhood Education Today (Hardcover) Publisher:Pearson Custom Publishing
7. Nutbrown, C, (2011) Key Concepts in Early Childhood Education and Care(Paperback) by Publisher: Sage Publications (ca)
8. Ray, S, (2009) Early Childhood Education And Sustainable Society (Hardcover) byPublisher: Adhyayan Publishers
9. Selbie, P, Clough, P, Nutbrown, C(2008) Early Childhood Education: History,
10. Whitebread, D, (2011) Developmental Psychology and Early Childhood Education:

MOTHER TERESA WOMEN'S UNIVERSITY
DEPARTMENT OF HOMESCIENCE
PHD COURSE WORK SYLLABUS
THEORIES OF CHILD DEVELOPMENT AND BEHAVIOUR

UNIT – 1

Beginning of life– Conception, stages of pregnancy, prenatal developmental care of the expectant women, Discomforts during their implications. Growth and development of Children – Principles of development. Factors that influenced development.

UNIT – 2

Infancy – Physical, motor, social and emotional development. Vocalization activities. Care of infant, immunization. Early Childhood – Physical, motor intellectual, social and emotional development. Late childhood – Physical, Motor, intellectual, social and emotional development. Minor ailments.

UNIT-3

Adolescence-Physical, emotional, social and intellectual development – Problems of adolescence.

UNIT – 4

Play-Definition, types, theories and values.

Learning-Definition, Types-trial and error, insight, conditions, imitation.

Discipline-Meaning, Disciplinary techniques, guidelines for inculcating Discipline in children.

UNIT – 5

Methods of child study-case study, observation, experimental methods, Projective techniques, and clinical approach. Behavior problems-meaning, causes and prevention-Hurts other children, Destroy things, uses languages, thumb sucking, bedwetting, masturbation, refusal to eat, lying and stealing. Exceptional children – Physical and mental handicaps Crippled, mental retardation, gifted children.

REFERENCES:

1. Hurlock, E.B, Child Development Mc Graw Hill, New York 1988.
2. Subash C.Arya, Infant and child care for Indian Mothers. Vikas Publisher, Delhi, 1972.
3. Devadas, R.P. and Jaya. N. Text Book of child development Mc Mullan and Co., 1981.
4. Gosh, S. The feeling and care of infants and young children UNICEF, New Delhi, 1976.

MOTHER TERESA WOMEN'S UNIVERSITY-KODAIKANAL

DEPARTMENT OF HOME SCIENCE

COURSE WORK SYLLABUS

HOME SCIENCE EXTENSION AND COMMUNICATION MANAGEMENT

UNIT I

Changing concepts and emerging issues in extension, Indian economy, structure & organization of rural, urban and tribal areas, poverty, unemployment, special programmes for poor, women and children, employment policy, new economic policy, co-operatives, community, social groups, theories of development, industry and agriculture, communication techniques, A.V Aids, communication & extension approaches, mass media approaches of communication.

UNIT-II

Extension Approaches to rural development; Adult literacy programme - Need, Importance and Objective, National Literacy mission, Post literacy activities; Support structures and their functions – DRDA, NREGP, Central Social Welfare Board, State Social Welfare Board, NABARD; National Level Voluntary Agencies – CAPART and KVIC; ICAR extension systems- KVK, NATP, IVLP, ATIC, NAIP, AICRP.

UNIT III

Research methods and data gathering instruments, processing and analysis of data, analysis & interpretation of data. Training & learning, learning methodologies. Programme planning, plan of work, programme implementation, evaluation, follow up and documentation. Gender and development, violence against women, policies and programme for women development and support system, legal empowerment.

UNIT III

Concept of health care, community health needs & problems, health care services, management information system in health. Women entrepreneurship. Community nutrition, methods of assessing nutritional status of the community, nutritional problems, national & international agencies involved in improving nutritional status of the community. Methods for community participation, space related, time related & PRA relation method. Role of SAUs in rural development; role of international organizations in rural development; Review of five year plans in India; privatization of extension services-scope and limitations

UNIT IV

Women & society, women and nutrition, women and health, policies, legislation & empowerment of women. Concept and management of service organization, organizations working for the service of women and children, organizations working for service of youth and groups with special needs. Govt and NGOs working for the service of groups with special needs.

UNIT-V

Extension personal management, organization and planning in extension management, staffing and leading in extension management, controlling and efficiencies of personal in extension management. Comparative extension system of selected developed and developing countries: USA, UK, Israel, China, Pakistan, Japan and Brazil with brief history, approaches, organizational structure, linkage with research and extension methods used; its comparative analysis with Indian extension system.

References

Books:

1. Axinn George H & Thorat SS. 1972. Modernizing Agricultural World Wide. Oxford & IBH.
2. Cernea MM, Russel JFA & Coulter JK. (Eds.). 1983. Agricultural Extension by Training and Visit- The Asian Experience.
3. The World Bank Washington D.C. Cernea MM, Russel JFA & Coulter JK. (Eds.). 1983.
4. Agricultural Extension by Training and Visit- The Asian Experience. The World Bank Washington D.C. Dantwala ML & Barmeda JN. 1990.
5. Rural Development Approaches and Issues, Indian Ag. Dev. Since Independence. Oxford & IBH. Dantwala ML & Barmeda JN. 1990.
6. Rural Development Approaches and Issues, Indian Ag. Dev. Since Independence. Oxford & IBH. Dhama OP & Bhatnagar OP. 1991.
7. Communication for Development. Oxford & IBH. Mondal S & Ray GL. 2007 A Text Book of Rural Development.
8. Kalyani. Ray GL. 2006. Extension Communication and Management. Kalyani. Rivera WH. 1987. Agricultural Extension World Wide Issues, Practices and Emerging Pririties. Croom Helm.
9. Rivera WH. 1987. Agricultural Extension World Wide Issues, Practices and Emerging Pririties. Croom Helm.
10. Singh H. 1985. Rural Development in India. Print Well Publ. Singh H. 1985. Rural Development in India. Print Well Publ.
11. Singh RP, Mathur PN & Kumar GAK. 1999. Extension Education - A Handbook for Extension Personnel. IFWA, IARI, New Delhi.

12. Swanson BE, Bants RP & Sofrenko AJ. 1984. Improving Agriculture Extension - A Reference Manual. FAO.
13. Vanden Ban AW & Hawkins HS. 1988. Agriculture Extension. Longman Scientific Technicals.

Journals

1. Indian Journal of Adult Education o Indian Adult Education Association, New Delhi
2. Indian Journal of Home Science o Home Science Association of India, Baroda
3. Indian Journal of Social Work o Tata Institute of Social Science, Deonar, Bombay
4. Indian Journal of Training and Development o Indian Society for Training and Development, New Delhi.
5. Journal of Indian Education o NCERT, New Delhi
6. Journal of Rural Development o National Institute of Rural Development, Rajendranagar, Hyderabad
7. Rural India o Adarsh Seva Sangh, Ishwardas Mansions, Nana Chowk, Bombay, Maharashtra
8. Social Welfare o Central Social Welfare Board, New Delhi
9. Indian Journal of Social Sciences o Academic & Law Series, New Delhi.
10. International Journal of Home Science o Academic & Law Series, New Delhi
11. Journal of Home Science Dairy & Food Science o Agricultural Research and Communication Centre, Karnal, Haryana
12. Journal of Communication Studies o NCDC, Banaras Hindu University, Varanasi
13. Communicator o IIMC, New Delhi

14. Vidura o Press Trust of India, New Delhi • Studies on Home and Community Studies o
Kamla Raj Enterprise, New Delhi
15. Journal of Human Ecology o Kamla Raj Enterprise, New Delhi
16. Journal of Social Science o Kamla Raj Enterprise, New Delhi
17. Indian Journal of Extension Education o Indian Society of Extension Education,
Division of Agricultural Extension, IARI, New Delhi
18. Maharashtra Journal of Extension Education o Maharashtra Society of Extension
Education, Akola
19. Rajasthan Journal of Extension Education o Rajasthan Society of Extension Education
Udaipur.
20. Journal of Extension. o Extension Building, 432 North Lake Street Madison, Wisconsin.

MOTHER TERESA WOMEN'S UNIVERSITY

DEPARTMENT OF HOMESCIENCE

PhD COURSE WORK SYLLABUS

FAMILY RESOURCE MANAGEMENT

Unit I

Impact of socio-economic environment on family and community. Management of eco-system - environmental pollution and community health.

Unit II

Consumer issues - Impact of Globalization, Privatization and industrialization on consumer and consumer goods. Equipment Designing - Effect on work, body posture and safety of equipment.

Unit III

Environmental issues - women and environment. Fuel technologies and use of nonconventional energy resources.

Unit IV

Manpower management and Auditing of Human Resources. Housing Research - Housing conditions, needs and problems in India.

Unit V

Agencies for housing research and development, methods and techniques. Ministries in Family Resource Management and their policies.

Reference Books

1. The Emerging consumer. : Chandha R
2. A Growing Concept: Seetharaman, P and Seth, M. : consumerism
3. Body space, Anthropometry, ergonomics and the Design of work. :Pheasant Stephen 19
4. The Impact of Environmental Degradation on people. :Vegas, Philip and Meanon, Geeta
5. Eco-Technology for Pollution Control and Environmental management. :Trivedy, R. K. and Arvind Kumar
6. Modern Ideal House for India. : Deshpande, R. S.

7. Town and Courtly Planning and Housing. : Ambedkar, V. N. &Modak, N. V
8. Publication of Housing Board.
9. Non-conventional sources of energy.:Jain, H. C.
10. The World of Petroleum.: Deshpande, B. G

Journals

- i. Journal of Indian Architect
- ii. Asian Journal of Home Science
- iii. Journal of Dairy, Foods and Home Science

MOTHER TERESA WOMEN'S UNIVERSITY

DEPARTMENT OF HOMESCIENCE

PhD COURSE WORK SYLLABUS

PRINCIPLES OF FAMILY RESOURCE MANAGEMENT

Unit I: Introduction to management

Management basics – Theory of Management, decision making - resolving conflicts, concepts of management – values, goals and standards, family characteristics influencing management- life cycle stages, types and composition of family, qualities of a good manager.

Unit 2: Family Resources and Management of time

Meaning and classification, characteristics of resources, factors influencing resource management, means to optimize satisfaction in resource management. Time as resource, significance of time management, tools and aids in time management, time schedule -preparation and evaluation.

Unit 3: Management of energy

Energy as resource, significance of energy management, energy requirements for various household activities, work curve. Fatigue – classification and causative factors and alleviating techniques, work simplification. Mundell's classes of changes, Study of labour saving equipments - principle, use and care of the equipments.

Unit 4: Management of Money

Family income as a resource - Family expenditure ,family budget , types of budget, steps in making family budget, Engel's laws of consumption , Financial records – types, purpose and advantages, Savings and investments – meaning, saving institutions and schemes, supplementing family income, family credit – types, sources, use and misuse.

Unit 5: Consumer education

Consumer education – meaning, consumer problems, rights and responsibilities of a consumer, consumer aids, consumer redressal procedure and better buying practices.

Reference

- 1 Nickle. P. Dorsey, J. M, Management in family living, Sterling Publishers, New Delhi
- 2 Gross I.M. and Grandall.D, Management for modern families.
- 3 M.A.Varghese, N.Ogale, Home management.
- 4 M.A. Varghese, Household Equipment Manual, S.N.D.T Women's University.

MOTHER TERESA WOMEN'S UNIVERSITY**DEPARTMENT OF HOMESCIENCE****PhD COURSE WORK SYLLABUS****FOODS AND NUTRITION****UNIT-I**

Energy: Energy content of foods- Physiological fuel level-review. Measurement of Energy Expenditure. Estimating energy requirements of individuals and groups- Regulation of energy metabolism. Carbohydrates: Types, classification, digestion, and transport. Dietary fibre, fructo-oligosaccharides, resistant starch – chemical composition and physiological effects Glycemic index of foods. Sweeteners – nutritive and nonnutritive.

UNIT - II

Proteins: Classification, digestion, absorption and transport. Metabolism of proteins. Protein quality, methods of evaluating protein quality. Therapeutic applications of specific amino acids- Branched chain, glutamine, arginine, homocysteine, cysteine, taurine. Lipids: Classification, digestion, absorption, transport . Functions of EFA Role of n-3, n-6 fatty acids in health and disease. Requirements of total fat and fatty acids. Trans fatty acids. Prostaglandins.

UNIT - III

Macro minerals: calcium, phosphorus, magnesium, sodium, potassium & chloride. Micro minerals: Iron, copper, zinc, manganese, iodine, fluoride. Trace minerals: Selenium, cobalt, chromium , vanadium, silicon, boron, nickel.

UNIT - IV

Vitamins; Historical background, structure, food sources, absorption and transport, metabolism, biochemical function, assessment of status. Interactions with other nutrients

UNIT-V

Non-nutritive food components with potential health effects- Polyphenols, tannins, phytate, phytoestrogens, cyanogenic compounds, lectins and saponins.

Nutrition management in special conditions- space travel, high altitudes, low temperatures, submarines.

REFERENCES

1. Annual Reviews of Nutrition. Annual Review Inc. California, USA.
2. Shils, M.E.: Olson, J: Shike, M. and Roos, C. (1998): Modern Nutrition in Health and Disease. 9th edition. Williams and Williams. A Beverly Co. London.
3. Bodwell, C.E. and Erdman, J.W. (1988) Nutrient Interactions. Marcel Dekker Inc., New York.
4. World – Reviews of Nutrition and Dietetics.
5. WHO Technical Report Series.
6. Indian Council of Medical Research. Recommended Dietary Intakes for Indians – Latest Recommendations.
7. Indian Council of Medical Research. Nutritive value of Indian Foods – Latest Publication.
8. Bordanier, C.D. and Haargrove, J.L. (Ed.) (1996): Nutrients and Gene Expression : Clinical Aspects. Boca Raton, FL CRP Press.
9. Baeurle, P.A. (Ed.)(1994) Inducible Gene Expression. Part-I : Environmental Stress and Nutrients. Beston : Birkhauser.
10. Chandra, R.K. (Ed.)(1992): Nutrition and Immunology, ARTS Biomedical. St. John's Newfoundland.

JOURNALS

1. Nutrition Reviews
2. Journal of Nutrition
3. American Journal of Clinical Nutrition
4. British Journal of Nutrition
5. European Journal of Clinical Nutrition
6. International Journal of Vitamin and Nutrition Research

PhD COURSE WORK SYLLABUS

FOODS AND NUTRITION

PAPER- FOOD PROCESSING AND TECHNOLOGY

UNIT-I

Physical principles in food processing operations- Thermal processing- heat resistance of micro organisms, nature of heat transfer, protective effects of food constituents, types of thermal treatments.

Rice Technology - Production, processing, milling of rice, parboiling, processes, by products of rice milling and their utilization.

Wheat Technology - Production, processing, manufacture of breakfast cereals.

Pulses - Production, types of processing of different pulse products. Technology of oil seeds - Processing, meal concentrates and isolates.

UNIT-II

Mushroom - Production, processing, utilization.

Meat - Production, processing, smoking and curing of meat, grading.

Poultry - Production, preparing poultry for consumption, packaging. Fish - Production, effect of handling practices, storage of eggs.

Fermentation Technology: Functional foods and Technologies to meet special needs.

UNIT-III

Spoilage and preservation of different groups of foods - Meat, eggs and poultry, fish and other sea foods, canned food. Food borne disease: Bacterial, food-borne important, Mycotoxins.

UNIT-IV

Quality assurance programme : Quality plan, documentation of records, process control and HACCP, hygiene and housekeeping, corrective action, quality and programme and total quality process.

UNIT-V

Product Evaluation : Sampling for product evaluation and line control. Specification and Food standards, International, National Mandatory, Voluntary. Sample preparations. Reporting results and reliability of analysis. Test for specific raw food ingredients and processed Food including additives: a. Nutrient analysis b. Tests of adulterants

REFERENCES

1. Pelezar, M.I. and Reid, R.D. (1933): Microbiology McGraw Hill Book Company, New York, 5th Edition.
2. Atlas, M. Ronald (1995) Principles of Microbiology, 1st Edition Mosby-year Book, Inc. Missouri, U.S.A.
3. Topley and Wilson's (1983) Principles of Bacteriology, Vitology and Immunity, Edited by S.G. Wilson, A Miles and M.T. Parkar Vol. I : General Microbiology and Immunity II : Systematic Bacteriology. 7th Edition Edward Arnold Publishers.
4. Block, J.G. (1999): Microbiology Principles and Explorations, 4th Edition John Wiley and Sone Inc.
5. Frazier, W.C. (1988): Food Microbiology, McGraw Hill Inc. 4th Edition.
6. Jay, James, M.(2000) : Modern Food Microbiology, 6th Edition, Aspen Publishers Inc. Maryland.
7. Banwant, G. (1989): Basic Food Microbiology, 2nd Edition. CBS Publishers.

8. Garbutt, J. (1997): Essentials of Food Microbiology. Ist Edition, Arnold International Students Editions.
9. Doyle, P. Benehat, L.R. and Mantville, T.J. (1997): Food Microbiology, Fundamentals and Frontiers, ASM, Washington DC.
10. Adams, M.R. and M.G. Moss (1995): Food Microbiology, 1st Edition, New Age International (P) Ltd.
11. Bensaon, H. J. (1990): Microbiological applications, C. Brown Publishers U.S.A.
12. Roday, S. (1999): Food Hygiene and Sanitation, 1st Edition. Tata MacGraw Hill, New Delhi.
13. Venderzant C. and D.F. Splitts Toesser (1992): Compendium of Methods for the Microbiological Examination of Foods 3rd Edition American Public Health Association, Washington DC.
14. Saiauel, A. Matz., The Chemistry and Technology of cereals of Foods and Feed”, BS Publishers and Distributors, 1996.
15. G.C. Banerjee, Poultiy, Oxford and IBH Publishing CODUB Ltd., New Delhi.
16. Giridhari Lal, G.S. Sidhappa and G.L. Tandon- Preservation of fruits and vegetables, ICAR, New Delhi, 1998
17. Raghurent Chinatamini, Advances in Agro Industry and Food Processing, Dominant Publishers and Distributors, 1999.
- 18.. Shakuntala Manay, N., Shadak Cheraswamy, M., Food Facts and Principles, Wiley Eastern Ltd., 1987.
19. Potter, N.W. Food Science, AVI Publishing Co., Connecticut, 1960.

Mother Teresa Women's University, Kodaikanal
Department of Home Science
(Textiles and Clothing)
Optional paper for Ph.D
FABRIC MANUFACTURING AND FINISHING TECHNOLOGY

Unit-I

Fiber - classification of fibers - natural & chemical -characteristics of textile fibers - Manufacturing process, properties and uses of natural fibers and Manmade Fibers.

Spinning - definition, classification - chemical and mechanical spinning - blending, opening, cleaning, doubling, carding, combing, drawing, roving, spinning

Yarn classification - definition, classification - simple and fancy yarns, sewing threads and its properties

Unit-II

Fabric Manufacturing – Fabric manufacturing techniques -weaving, knitting, non-woven, lacemaking, knotting.

Unit-III

Preparatory Process of fabrics -Singeing- methods, Scouring, desizing, scouring, bleaching-methods and mercerization-methods

Dyeing & Printing: - Introduction -classification -types of dyeing – methods of printing.

Unit-IV

Aesthetic finishes: Lustre - glazed, moire, schreiner, embossed. Texture - sheared, brushed, embossed, pleated, flocked,embroidered, napped and fulled

Special purpose finishes: Stabilization / shrinkage control - different methods, Shape retention methods, wrinkle free finishes

Unit-V

Comfort related finishes - water repellent finishes, pilling resistance, Abrasion resistant

Biological control finishes - moth and mildew control

Safety related finishes - flame retardant

References:

- Textiles - Fibre to Fabric, Corbmann B P, International Students edition, Me Graw Hill Book Co, Singapore 1985
- Sewing and Knitting- A Reader's Digest step-by-step guide, Reader's Digest, New York 1993
- Fabric Science 5th Edition, Joseph J Prctal, Fairchild Publications, New York 1990
- Technology of dyeing and Printing – Shenai
- Textiles - Ninth edition, Sara J Radolph and Anna L Langford, Prentice hall, New Jersey (2002)
- Textile Processing - J L Smith, Abhishek Publications, Chandigarh (2003)
- Textile Chemistry - Peters R II, Vol I, & M, Textile Institute Manchester (1970)
- Technology of Textile Processing - Shenai V, Vol III, V, Vtl, VIII, Sevalc Publications, Bombay (1981)
- Wool Dyeing - Lewis D M, SDC Publications England (1990)

Mother Teresa Women's University, Kodaikanal

Department of Home Science

(Textiles and Clothing)

Optional paper for Ph.D

FASHION DESIGNING AND GARMENT MANUFACTURING TECHNOLOGY

Unit-I

Terms related to the fashion industry - Design-definition and types –structural and decorative design.

Elements of design – line, shape of form, Colour size and texture - Principles of design – balance,rhythm, emphasis, harmony and proportion.

Colour – definition, color theories - Dimensions of colour – hue, value and intensity - Standard colour harmonies.

Unit-II

Fashion evolution - fashion cycles - Adoptions of fashion - trickle down, trickle up and trickle across theory - Fashion forecasting - Visual Merchandising of Fashion - Types of Displays - Elements of Display - Merchandising Presentation - tools and techniques - back drop, forms, fixtures –Importance of fashion show.

Unit-III

Apparel manufacturing: Basic Pattern Making methods- drafting and draping –Pattern Grading- Manual and Computer grading.

Spreading and cutting – Types and functions – Developments in spreading and cutting including computer aided machines.

Unit-IV

Apparel manufacturing: Sewing machinery Classification- sewing machinery functions - Construction techniques of garment details such as pockets, sleeves, collars, plackets and closures - Classification of Apparels – Apparel production systems.

Apparel production planning and control: Importance of pre-production activities - Steps from prototype to production model - Design / Sketch development, Pattern design, Sample making, Production pattern, Grading, Marker making, Spreading, Cutting, Sorting/Bundling, Sewing/Assembling, Inspection, Pressing, Final Inspection, Packing.

Unit-V

Fashion Apparel accessories and Ornamentation: importance of fashion accessories – Types - Hand bags, Purses, Slippers / shoes, Belts, Chains / Necklaces, Ear rings, Bangles, Anklets – surface ornamentation – Embroidery (Hand and machine), Applique, Smocking, Laces, Bead Work, Sequins Work, Zardosi Work, Mirror Work, Stone Work.

Reference

Fashion sketch Book – Bina Abling, Fair Child publications, New York Wardrobe Strategies for Women – Kudith Rasband, Delmar publishers London Fundamentals of Textile and their Care – Susheela Dantyagi, 5th edition, Orient Langman Ltd New Delhi.

Retail Fashion, Promotion and Advertising - Drake et-al, Macmillan publishing Company, New York.

Fashion - From Concept to Consumer - Gini Stephens Frings, 6th edition, Prentice Hall (1999).

Inside the Fashion Business - Bennett, Coleman & Co, Mumbai (1998)

Art and Fashion in Clothing Selection - Harriet T, Me Jimsey, The Iowa state University Press, Ames, Iowa (1973)

Jacob Solinger., Apparel Manufacturing Handbook , VanNostrand Reinhold Company (1980).

Carr.H, Latham. B., The Technology of Clothing Manufacture , Blackwell Scientific Publication (1988).

Cooklin Gerry, Garment Technology for fashion designers, Blackwell Publishing, 1997

Peyton B .Hudson, Guide to Apparel Manufacturing , MEDI Apparel Inc (1989) ISBN: 0 - 945116-08-X.

Sukumar K, Knitting and apparel manufacture, , SSMITT

Stephen Gray, CAD / CAM in clothing and Textiles, Gower Publishing Limited, 1998

W.Aldrich, CAD in clothing and Textiles, Blackwell Science 2nd edition, 1992, ISBN: 0-63 - 3893 – 4