

Semester - VII
Paper – 1
Advanced Food Science

- Unit – I Introduction of Food Science:- Constituents of foods, general, physical and chemical properties of food Importance of Enzymes.
- Unit – II Cereals and Cereals Product :- (a) types composition and structure, functional properties of Starch, wheat Starch and gluten Formation, Properties of amylase and amylopectin.(b) Pulses and legumes:- Composition and structure, selection and variety functional properties of pulses,
- Unit – III (a) Sugar and sugar Products:-manufacturing process of sugar, stages of sugar cookery,(b) Fats and oils :- Types and sources, functional properties and uses in cookery.
- Unit – IV (a) Milk and Milk Products :- composition, uses and cookery, Effects of heat, acid and salts on shelf life of milk. (b) Egg:- Structure, composition and grading changes during storage, functional properties.
- Unit –V (a) Vegetables:-composition and classification, changes occurring during cooking (b) fruits :- composition – changes occurring during maturation and ripening. pigment and flavour constituents.

References:

1. Food Science (2nd edition): Charley, H. (1982), John Wiley & Sons, New York.
2. Food Proteins and their Applications. Damodaran, S. and Parot, A (editors), (1997) Marcol Dekker Inc.
3. Advanced Textbook on Food and Nutrition, Swaminathan, M., The Bangalore Printing and Publishing Co. Ltd., 2nd Edition, 1985.
4. Principles of Food and Nutrition, Smt Usha Tondon, Sahitya Prakashan, Agra.
5. Food, Nutrition and Hygiene, Dr. Anita Singh, Star Publication, Agra.
6. Essentials of food and nutrition, Swaminathan, M.,
7. Modern Nutrition in Health and Disease. Shils, M.E.; Olson, J.; Shike, M. and Roos, C. (1998): 9th edition. Williams and Williams. A Beverly Co. London.
8. Nutrient Interactions. Bodwell, C.E. and Erdman, J.W. (1988) Marcel Dekker Inc. New York.
9. World Reviews of Nutrition and Dietetics.

JOURNALS:

1. Journal of Food Sciences.
2. Advances in Food Research
3. Journal of Food Science and Technology
4. Journal of Agricultural and Food Chemistry.
5. Cereal Science
6. Journal of Dairy Science
7. Journal of the Oil Chemistry Society.
8. European Journal of Clinical Nutrition.
10. International Journal of Vitamin and Nutrition Research.
11. International Journal of Food Science and Nutrition.
12. Nutrition Research

Semester - VII
Paper – 2
Research Methodology

- Unit – I 1 (a) Definition, concept and steps of Research
- (b) Need and Importance of Research in Home Science
- (c) Types of Research – Historical, Survey work, Experimental, Case method, Qualitative and Quantitative, descriptive and Action research.
- Unit – II Research design and Hypothesis –
- (a) Purpose of Research Design
- (b) Selection and limitation of Research Problem
- (c) Nature, type and function of Hypothesis
- Unit – III (a) Sampling and Data Gathering Instruments – Definition and characteristics of sample, types of sampling probability and Non probability sampling.
- (b) Selection of tools for Data collection – Questionnaire, interview, observation and schedule and group discussion
- Unit – IV Classification and Tabulation of Data, Tables – Types of Table, Graphical presentation of Data – Histogram, line graph, bar chart, frequency polygon and pie chart.
- Unit – V (a). Measurement of Central Tendency – definition and characteristics of Mean Mode & Medium.
- (b) Analysis of Data through parametric and non parametric tests.
- (c) Report writing interpretation and discussion.

References:

1. Statistical Methods – S.P.Gupta, Sultan Chand & Sons Publisher- New Delhi
2. Research Methodology, Methods and Techniques – C.R. Kothari Wiley Eastern Limited
3. Business Statistics, Agrawal.S.K, Anand Publications, Meerut.
4. Statistical Analysis, Shukla. S.M, Sahitya Bhawan Publications.
5. Elements of Statistics, Theory & Practice – M.Singhal. Lakshmi Narain Agarwal, Educational Publisher – Agra
6. An Introduction to Statistical Methods – C.B.Gupta & V.Gupta- Vikas Publishing House PVT Ltd.
7. Methodology and Techniques of Social Research – P.L.Bandarkar & T.S.Wilkinson – Himalaya Publishing House- Mumbai.
8. Research Methods & Measurements in Behavioural & Social Sciences, G.L.Bhatnagar(1990): Agri. Cole. Publishing Academy, New Delhi.
9. Methodology and Techniques of Social Research, Bandarkar, P.L. and Wilkinson, T.S. (200): Himalaya Publishing House, Mumbai.
10. Strategies for interpreting Qualitative Data; Dooley, D. (1995), Saga Publications, Claifornia.
11. Educational Research, Gay, L.R. (1981, 2nd Ed.) Charles, E. Merrill, Columbus, Ohio.
12. Basis of Qualitative Research, Stranss, A. and Corbin, J. (1990), Grounded Theory Procedures and Techniques, Saga Publications, California.
13. The Quality of Life: Valuation in Social Research, Mukherjee, R. (1989), Sage Publications, New Delhi
14. From Research to Manuscript: A Guide to Scientific Writing (2nd Ed). Katz, M. (2009) New York : Springer
15. The Craft of Scientific Writing. Alley, M. (2018). New York: Springer.
16. The Thesis and the Book, Haman, E. & Montagnes, I. (Eds.) (1997): New Delhi: Vistaar.
17. Foundation of Educational Research. Kerlinger:
18. Social Research Methods: Qualitative and Quantitative, Bernard, H.R. (2000).

Semester - VII
Paper – 3
Human Development

- Unit – I (a) Principles of growth and development
- (b) Care during pregnancy and prenatal and neonatal development and factors affecting development.
- Unit – II (a) Early childhood care and Education – activities to promote holistic development
- (b) Influence of family, peers, school, community and culture on personality development.
- Unit – III Adolescence and Youth : Changes, challenges vocational aspiration and opportunities, carrier problems.
- Unit – IV Adulthood:- characteristics, changing role and responsibilities in early and middle adulthood, psychological and social adjustment in late adulthood.
- Unit – V Aging :- physical and psychological changes, care and needs of elder people.

References:

1. Human Development: A Life Span Approach, Rice F.P.: N.L. Prentice Hall-1965
2. Bal Manovigyan Evam Bal Vikas, Shrivastava D.N. & Verma Preeti-
3. Shrivastava Anita- Adhunik Vikasatmak Manovigyaan, Lal J.N., Vinod Pustak Mandir, Agra.
4. Matru Kala Avam Shishu Palan, Agrawal Neeta
5. Human Development, Papalia D.E. (1997):, Tata McGraw Hills Publication.
6. Foundations of Human Development: Lifespan Approach. Singh, A. (Ed.). (2015). Orient Blackswan.
7. Human Development: A life Span Approach. Rice, F.P. (1998). N.J.: Prentice Hall
8. An Introduction to Developmental Psychology. Slater, A. & Bremner, G. Eds. (2003).U.K.: Blackwell.
9. Blackwell Handbook of Childhood Social Development. Smith, P.K. & Craig, H.M. Eds. (2004). MA: Blackwell.

Semester - VII

Paper – 4

Family Studies

- Unit – I (a) Family – Definition, types of family single parents families, family disorganization. (b) Marriage – Disharmony, Conflict, resolution of Conflicts, Family in crisis.
- Unit – II Gender Development – Concept of gender, gender roles, changing trends, gender and development, National efforts for gender empowerment.
- Unit – III Human rights – rights of children, rights of women, status of women – meaning, demographic, education, political ad health (general, occupational & reproductive)
- Unit – IV Violence against women – Dowry divorce, female feticide and domestic violence, sexual harassment and exploitation, efforts for elimination of all forms of discriminations.
- Unit – V Family welfare programme – (a) Need of child welfare programme, National policies for children the development of (b) Need of family welfare programme, National family welfare policies for women. (c) Mission Shakti – needs and implementation in current scenario.

References:

1. An introduction to sociology- Vidya Bhusan & D.R. sachdeva – Kitab Mahal, New Delhi.
2. Indian Social Problems- Vol I & II, G.R. Madan.
3. Encyclopedia of Child & Family Welfare- Anmol Publication, New Delhi.
4. The Family: A Sociological Interpretation- B.N Adams- Rand & McNully Chicago.
5. Indian Social System- R.Ahuja- Rawat Jainpur.
6. Hand Book of Family Life Education: The Practice of Family Life Education (vol II) H.E Arcus & others Sage Publications, New Delhi.
7. Family Measurement in India – S.Bharat- Sage Publications, New Delhi.
8. Family: its Structure & Functions- R. Cooser- Macmillan , New York.
9. Women & Work in India Society- T.M.Dak.
10. Marriage & Family in India- Kapadia- Oxford University Press, Calcutta.
11. The Changing Family: Comparative Perspective- M.Hutter, John Wiley & Sons.
12. Family in Urban Setting- Ross- Toronto Press.
13. Family, the World Revolution & Family Patterns- M.J. Goodes: Prentice Hall, New Delhi.
14. Research on Indian Family Problems Issues & Publications, Murali Desai, Shalini Bharat, TIISS, Bombay.
15. Women, Tradition & Culture- Subbamma Madlad
16. Marriage: The Family & Women in India- U.P.P.Rao, V.N.Rao- Heritage New Delhi.
17. The Family in Various Culture- S.A.Queen- Harper & Row New York.
18. Society in India: Continuity & Change- D.G. Mandelbaum University of California Press- Berkley.
19. Sociology of Family, S.L.Lock, Prentice Hall, London.
20. The Family in Social Context- G.R.Leslie, Oxford – New York

Semester VII
Paper – 5 (Practical)
Advance food science

- I. Evaluation of food: Visual and sensory evaluation of foods.
Sugar cookery : (a) Observation of different stage of sugar cookery.
(b) Preparation of fondant / fudge.
- II. Egg cookery: (a) Effect of cooking time on colour, texture and acceptability of whole egg. (b) Effect of cooking method on coagulation, property to egg. (c) Preparation of plain fried, poached and scrambled egg.
- III. Fruits and vegetables: (a) Browning in fruits and vegetables (b) To determine the effect of cooking method, acid and base on the colour flavor, texture and taste of vegetables.
- IV. Use of leavening agent in cookery.
- V. Prepare a questionnaire regarding problem of Adolescents and conduct a survey.

References:

1. Food Science (2nd edition), Charley, H.(1982): John Willey & Sons, New York.
2. Food Science, Potter, N. and Hotchkiss, J.H. (1996): Fifth edition, CBS publishers and Distributors, New Delhi.
3. Food Chemistry (2nd edition) Belitz, H.D. and Gropsch, W. (1999):, Springer, New York.
4. Foam, Academic Press, Abers, R.J. (Ed.) (1976): new York.
5. Protein Functionality in Foods, American Chemical Society, Cherry, J.P. (Ed.) (1981): Washington,D.C.
6. Functional Properties of Food Components, (2nd edition), Pomeranz, Y. (Ed.) (1991): Academic Press, New York.
7. Water Relation to Foods, Duckworth, R.B. (Ed.) (1978), Academic Press, London.
8. Status Report on Dehydration of Eggs. Parihar, P., Agarwal, R. jain D.K. and Mandhyan, B.L. (1977): PHT / CAE / Publishers.
9. Whey Protein Concentrates, Marshall, K.R. and Harper, W.J. (1988): IDF Bulletin No.233.
10. Vegetables in the Tropics, Tindall, H.D. (1983), MacMillan, Press, London.
11. Rice Chemistry and Technology, (2nd Edition), Julians, B.O. (Ed.) (1985): American Association of Cereal Chemistry, St. paul Minesota, USA.
12. Food Theory and Applications, Bowers, J. (1992): (2nd Edition), MacMillan Publishing Co., New York.
13. Foundations of Food Preparation. Peckham, G. and Freeland – Graves, G.H. (1979):
14. Emulsions: Theory and practice, Becker, P. (1965):, Reinhold, New York.

Journals:

1. Journal of Food Sciences.
2. Advances in Food Research
3. Journal of Food Science and Technology
4. Journal of Agricultural and Food Chemistry.
5. Cereal Science
6. Journal of Dairy Science
7. Journal of the Oil Chemistry Society

Semester VIII

Paper – 6

Resource Management and Consumers services

- Unit – I Home Management :- (a) planning, controlling, organizing, evaluation
(b) Decision making and stages of family life cycles. (c) Management of time, energy, money and space and motivating factors of it.
- Unit – II Resources:- Classification, characteristics, factors affecting use, time management, work simplification techniques, class of change, fatigue and its management.
- Unit – III Money management – (a) Income Definition and types of Income (b) budget – Definition and types of Budget, Household accounts (c) Saving- definition and different methods of saving and investments.
- Unit – IV Consumer- definition, role, rights and responsibilities, consumer behaviours, consumer problems, education and empowerment.
- Unit – V Consumer protection: – Consumer organization, cooperatives, standardization, standard marks, quality control, buying aids and consumer legislation.

References:

1. Grah Prabandh, Bakshi B.K.
2. Management for Modern Families, Gross I.H. & Crendall E.W. Knoll M.M, Prentice Hall Inc., New Jersey 1980.
3. Grah Prabandh, Patani Manju
4. Family Resource Management Principle and Application, Dacon R.E and Firabaugh F.M.: Allyn & Bacon Ins. London, 1988

Semester VIII
Paper – 7
Advanced Clothing & Textile

- Unit – I Textile Terminologies (a) Fiber, yarn, weave, Fabric (b) classification of fibers, Yarns and Weaves, Identification of Fibers.
- Unit – II Manufacturing and process of major natural and manmade fibers (cotton, linear, silk, wool Rayon, Nylon & Polyester) properties their and uses.
- Unit – III Fabric Construction – Types of weaves, Knitted and non woven fabrics their properties and uses. Textiles Finishes – Classification, processing and purposes of finishes.
- Unit – IV Dyeing and Printing – Classification, methods of block printing, tie and dye, batik, roller printing, screen printing, discharge, heat transfer printing.
- Unit – V Care and maintenance of clothing – principles of washing, laundry agents, storage methods, care labels and symbols. Selection of clothing for different age groups, selection of Fabrics for different and uses.

References:

1. Textile science. Melbourne: Longman Cheshire. Gohl, E. P. G. and Vilensky, L. D. (1983)
2. Handbook of Technical Textiles, Horrock A.R. and Anand, S.C. (2000). Cambridge: Woodhead Publishing.
3. Quality Control in Textiles and Apparel Industry, Kothari, V.K., Behera, B.K. (1996) A&B, Delhi, Department of Textile Technology
4. Textile science, India, Rastogi, D. and Chopra, S. (Ed) (2017) Orient Black Swan Publishing Limited.
5. Physical Testing of Textiles, Saville, B.P. (2000) Textiles Institute.
6. Knitting Technology: A Comprehensive Handbook and Practical Guide, Spencer, D.J. (2005) 4th ed. Cambridge: Woodhead Publishing.
7. Dyeing and Chemical Technology of Fibers, Trotman, E. R. (1984) Sixth Edition, England: Charles Griffin and Company Ltd.
8. An Introduction to Textile Finishing, Marsh, J.T. (1979) Bombay: B.I. Publications.
9. Textile Science, India, Rastogi, D. and Chopra, S. (Eds.) (2017) Orient Black Swan Publishing Limited.
10. Encyclopedia of Textile Finishing, Rouette, H.K. (2001) Volumes 1 to 3, Berlin: Springer.
11. Chemical Finishing of Textiles, Schindler, W.D. and Hauser, P.J. (2004) The Textile Institute, England: Woodhead Publishing Ltd.
12. Dyeing and Chemical Technology of Fibers, Trotman, E. R. (1984) Sixth Edition, England: Charles Griffin and Company Ltd.
13. Textbook of Fabric Science: Fundamentals to Finishing, Sekhri S., (2016), 2E, Delhi: PHI Learning, Private Ltd.
14. Textile Processing and Properties, Preparation, Dyeing, Finishing and Performance, Vigo, T. L. (1994) Amsterdam: Elsevier Science B.V.
15. Advanced Textile Design (4th Ed) - Watson's, London, Grosicki, Z.J. (1989) Newness Butterworths
16. Textile Design, Meller S and Eiffer. J (1991) London, Thames and Hudson

17. Pattern Making for Fashion Design, Armstrong, Helen Joseph. (2000) 4th ed.
18. Ancient Indian Costume, Alkazi, R. (1983) Art Heritage Books.
19. An Introduction to Textile Printing, Clarke, W. (1977) London: Butterworth and Co. Ltd.
20. Textile science, India, Rastogi, D. and Chopra, S.(Eds.) (2017): Orient Black Swan Publishing Limited
21. Chemistry of Dyes and Principles of Dyeing, Shenai, V.A. (1987) Vol II, Bombay:Sevak Publications.
22. Pattern Cutting and Making Up, Shoben, M.M., Ward, J.P. (2000) Volume 2, Revised Edition, LCFS Fashion Media
23. Improving Comfort in Clothing, Song, G. (ed.) (2011) Woodhead Publishing.
24. Textile Fabrics and Their Selection, Wingate, Isabel B. (1949) New York, Prentice Hall.

Semester VIII
Paper – 8
Guidance and Counselling

- Unit – 1 Basic difference in guidance, advice and counseling. Basic concept-meaning, definition, nature, Scope of family guidance and counseling.Guidance and counseling, needs of Individual and families systems.
- Unit – 2 Principles and objectives of family guidance and counseling. Theories and approaches of guidance and counseling. The Indian approach – meditation and Yoga exercises.
- Unit – 3 Types of counseling. Qualities and skills of a counselor, evaluation of guidance and counseling.
- Unit – 4 Nature of Psychological disorders at different stages that require Counseling : Childhood, adolescence and youth, adulthood and old age. Principles of counseling. Approaches to counseling at different developmental stage, family therapy and approach.

References:

1. Educational & vocational guidance in secondary schools – S.K.Kochhar, Sterling publisher Pvt. Ltd, New Delhi.
2. Counseling and Guidance, S.Narayan Rao tata McGraw Hill Publishing Company Limited,
3. Counseling skills Training- P.Burnard, Viva Books, New Delhi.
4. Counseling: the Skills of finding solutions to Problems, R.Manthei, Routledge, London.
5. Individual Counseling: Therapy & practice, D.Nicolson & H.Ayers, David Fulton, London.
6. Encyclopedia of Guidance & counseling- Mittal Publications, New Delhi.
7. Educational & Vocational Guidance- R.Singh, Common Wealth Publishers, New Delhi.
8. Guidance & Counseling- I. Madhukar, Authe press Global Network.
9. Principles of Guidance & Counseling- M.Asche Sarup & sons, New Delhi.
10. Guidance & Educational Counseling- S.K.Chibber- Common Wealth Publishers.
11. Encyclopedia of Childcare & Guidance- (1 & 2vols) Sarup & Sons, New Delhi.

Semester VIII

Paper - 9

Extension Management and Community Development

- Unit – I Extension Education :- Meaning and objectives. Philosophy and principles of extension programme development.
- Unit – II Programme Management :- need assessment, planning, organization, implementation, monitoring and evaluation.
- Unit – III Audio Visual Aids – need, importance, use classification and preparation of audio visual material.
- Unit – IV Non formal and Adult education – concept approaches, scope and methods, challenges of implementation and evaluation.
- Unit – V Community Development – perspective, approaches, community organization, leadership, support structure for community development. Panchyati raj institutions, NGO and community based organizations

References:

1. Education & Communication for Development –O.P. Dahama & O.P.Bhatnagar – Oxford & IBH Publishing Co. PVT Ltd. New Delhi.
2. Extension & Rural Welfare – O.P.Dahama – Ram Prasad & Sons – Agra, Bhopal.
3. Extension Education – A. Adivi. Reddy- Sree Lakshmi Press, Baputla.
4. Extension – Third Dimension of Education – G. Pankajam – Gyan Publishing House – New Delhi.
5. Extension Education and Communication, Patni M, Star Publications, Agra.
6. Extension and Communication, Vats A, Star Publications, Agra.
7. A Hand Book of Education Extension – B.K.Chaubey – Jyoti Prakashan, Allahabad.
8. Text Book of Extension Education – R. Singh – Sahitya Kala Prakashan – Ludhiana.
9. Introduction to Extension Education – S.V. Supe – Oxford publishers – New Delhi.
10. Extension Communication & Management – G.L.Ray – Naya prakash, Calcutta.
11. Exploring of Extension Excellence – S.K.Waghmare – Multi Tech Publication. Company.
12. Extension Education in Community Development Ministry of Food & Agriculture, Govt. of India – New Delhi.
13. Rural Development Series – Agricultural Extension – Vol I & II – Basic Concepts & methods – Albrecsht. H. et al. Wiley Eastern limited.
14. Barker, L. L. (1990) Communication. Eaglewood Cliffs, New Jersey: Prentice Hall.
15. Croteau, D & William, H.(2014). Media/Society: Industries, Images, and Audiences. Thousand Oaks : Sage Publications.
16. Fiske, J. (1990). Introduction to communication studies. New York: Routledge.
17. Severin, V. G; Tankard, J. W. (1988). Communication theory: origin methods and uses. NewYork: Longman.
18. Dhama, O.P. and Bhatnagar, O.P., (2003), Education and Communication for Development. New Delhi: Oxford and IBH Publishing Co. Pvt. Ltd.
19. Mikkelsen, C. (1995) Methods for Development Work and Research. New Delhi: Sage Publications.
20. Pannu, P. & Tomar, Y. (2012). Communication, Technology for Development. New Delhi : IK International Publishing House. ISBN: 9789380578903.

Semester VIII
Paper – 10 (Practical)
Advanced Clothing Textile and Housing Equipments

- I. Identification of Textile fibres by burning test and chemical test.
- II. Preparation and Identification of weaves.
- III. Tie and Dye, Batic, Screen and Block printing – any two of them.
- IV. Household equipments : Use and maintenance of fridge, microwave, electric over, cooler and Air conditioner washing machine.
- V. Survey work on selection of clothing for family according to income, occasion and fashion.

References:

1. Grover and Hamby: Handbook of Textile Testing and Quality Control, Wiles
2. ISI specifications, BIS specifications
3. ASTM standards

Semester IX

Paper – 11

Children with Special Needs

- Unit – I Introduction to children with Special Needs – Definition and types of Special Children, Children of Risk Gender issues, Genetic and environmental Factors in disability. Efforts of the disability of the child.
- Unit – II Children with Mental Retardation – Definition and classification, causes of Mental Retardation at home, special educational Measures.
- Unit – III Gifted Children – Definition, Characteristics of gifted children special educational measures, role of parents and teachers.
- Unit – IV Visually Impaired children – Definition – Blind and partially sighted children, Identification causes: effect of visual impairment of child's development, special education training, Role of family in detection and training.
- Unit – V Hearing impaired children – Definition – Deaf and hard of hearing children, classification – mild, moderate, severe and profound loss causes of hearing impairment, Identification, core and education of

hearing impaired children. Role of family in detection and child's language Development.

References:

1. Special Children-An integrative Approach-B.G.Suran & J.V.Rizzo – Scott, Foresman & Company, Glenview, Illinois, London.
2. Exceptional Children-Introduction to Special Education-D.P.Hullahan & J.M.Kauffman-Prentice Hall, Inc, Englewood Cliffs, New Jersey.
3. Exceptional Children-An Introductory Survey to Special Education-W.L.Heward & M.D. Orlansky Charles E, Merrill Publishing Company, Toronto.
4. Introduction to Skeptical Children-Their Nature & Educational Provisions – M. Bhargava – Sterling Publishers Private Limited, New Delhi.
5. Education & Children with special needs – from Segregation to inclusion-S. Hegarty & M.Alur, Sage Publications, New Delhi.
6. Social Welfare Administration in India-D.R.Sachdeva, Kitab Mahal Agencies, Allahabad.
7. Early Intervention studies for Young Children with Special Needs- D.Mitchell & R.I. Brown Chapman & Hall, London.
8. Children with special Needs- IGNOU, R.S.sen (eds) Services & programmes for children
9. Education for Young Children with Special Needs – B.Kaur & P. Karanth In T.S.Saraswathi & B.Kaur eds, Human development & Family Studies in India: An agenda for research & policy, Sage Publications, New Delhi.
10. Hand Book of Special Education: Research & Practice Vol. 3 M.C.Wang- Pergaman, Oxford.

Semester IX
Paper – 12
Housing and Interior Design

- Unit – I Housing – needs and Protective, Economic, affection and Social importance, Principles of House Planning, Norms and Standards of Building, House planning for Different income groups.
- Unit – II Housing Finance and construction cost of House building factors affecting cost of a house Financing Agency Bank, L.I.C. and cooperative Housing Societies. Building Material used in construction and finishing.
- Unit – III Interior Design :- Meaning, need and importance element of Art, Principles of design, Colour – dimensions of colour, schemes, Factors affecting use of colour in interior designing.
- Unit – IV Furniture Furnishing – Wall finishes, window treatment, Floor Covering, Furniture - Meaning, Importance and Classification, selection of furniture and furniture arrangement.
- Unit – V Ergonomics – Significance, scope, anthropometry, factors affecting physiological, cost of work, functional design of work place time, energy and motion study.

References:

1. Designing Interior Environment. Alexander, N.J. Mercoust Brace (1972): Havanovich Inc.
2. The Art of Interior Design, Ball, Victoria K 1655 (1980). Mc Millan & Co., New York.
3. Foundation of Arts Design, Bhatt, P.D., Goenka S. (1990): lakhari Book Depot, Bombay.
4. Fabric Furnishing, Butler Margaret G.E. Greaks Benyl S. (1980): E.T. Badsford Ltd., London.
5. Construction Technology, Chudley, R. (1987): Vol. 1-2 1-IBS Long man Ltd., new York.
6. Corporate Design, Gustafsan Karen and Yes Robert (1983): Thomas and Hudson, London.
7. Ergonomics of the Home, Grandjean Ettiens (1978): Taylors and Fracis Ltd., London
8. Human Dimensions and Interior Space Whitney, Grandjean Ettiens (1979):, New York.

Semester IX
Paper – 13
Nutrition and Dietetics

- Unit – I Food Groups – Balanced Diet, Food Pyramid, Food Groups according to Indian Council of Medical Research.
- Unit – II Nutrients :- Role of Nutrients in the body and Nutrient deficiencies and Nutritional Requirements for Indians.
- Unit – III Community Nutrition, Sports Nutrition, Nutrition in emergencies and disasters Nutritional Assessment – Various Methods and techniques.
- Unit – IV Therapeutic Nutrition :- Definition and objectives, Modification of Normal Diet to therapeutic diet, special Feeding Methods.
- Unit – V Etiology, Symptoms and Nutritional Requirement of Anemia, Dysentery, Peptic ulcer, Hepatitis, Nephritis, Hypertension, Atherosclerosis and Diabetes Mellitus Dietitian - responsibilities and role of counseling.

References:

1. Guidelines for planning Therapeutic diets- C.Lenka, Akinik Publications, New Delhi
2. Nutrition and Dietetics – Subhangini A.Joshi – Tata McGraw-Hill Publishing Company Limited, New Delhi
3. Dietetics – B.Srilakshmi – New age international (P) limited New Delhi.
4. Clinical Dietetics and Nutrition – F.A. Antia, Oxford University Press, London.
5. Normal and Therapeutic Nutrition- C.H.Robinson, Oxford & IBH publishing Co. Calcutta.
6. Text Book of Human Nutrition- Mahtab S. Bamji, N.Rao & V. Reddy, Oxford & IBH Publishing Co. Pvt Ltd.
7. Essentials of Food and nutrition – M.Swaminathan, Vol I & II, The Bangalore Printing & Publishing Co. Ltd (BAPPCO)
8. Food, Nutrition & Diet Therapy-L.K.Mahan & Escott.Stump- W.B. Saunders Ltd
9. Applied Nutrition & Diet Therapy for Nurses- J Davis, K.Sherer- W.B.Saunders.Co
10. Human Nutrition & Dietetics- J.S.Garrow ,W.P.T.James, A. Ralph –Churhill Livingstone.

Semester IX
Paper – 14 (Practical)
Housing & Interior Design

1. Colour scheme in relation to bed room, drawing room, living and dining room.
2. Different type of finishes used on wall and floors for houses of middle and high income group
3. Furniture layout of the different room of house for middle and high income group family.
4. Visit to Bank / House financing Agency and processing & documentation of Housing loan.
5. Anthropometry for household work, photograph yourself while doing different ergonomic motion study.

References:

1. Techniques of Interior Design, Rendering and Presentation Laoch, Sid Del har, McGraw Hill, New York.
2. Visualisation Techniques, Leinbac (1986): McMillan (Prentice hall), new Jersey.
3. Building Materials. Rangwala, N.
4. Encyclopaedia of Interior Design.

Semester IX
Paper – 15 (Practical)
Dietetics

- I. To prepare a food pyramid.
- II. Preparation of different therapeutic (hospital) diet on the basis of consistency and modified nutrients.
- III. Planning and preparation of following a therapeutic diet
 - (a) Anemia
 - (b) Dysentery
 - (c) Peptic ulcer
 - (d) Hepatitis
 - (e) Nephritis
 - (f) Diabetes mellitus
 - (g) Hypertension
 - (h) Under weight
- IV. Presentation of seminars and group discussion
- V. Visit to hospital kitchen and meeting with Dictation.

References:

1. Krause's Food Nutrition and Diet Therapy, Mahan, L.K. and Escott-Stump, S. (2000): 10th Edition, W.B. Saunders Ltd.
2. Modern Nutrition in Health and Disease, Shils, M.E., Olson, J.A., Shike, M. and Ross, A.C. (1999): 9th Edition, Williams and Wilkins.
3. Nutrition and Diagnosis Related Care, Escott-Stump, S. (1998): 4th Edition, Williams and Wilkinson Garrow, J.S., James, W.P.T. and Ralph, A.
4. Human Nutrition and Diabetics, 10th Edition, Churchill Livingstone.
5. Nutrition and Diet Therapy, Williams, S.R. (1993): 7th Edition, Times Mirror/Mosby College Publication.
6. Applied Nutrition and Diet Therapy for Nurses, Davis, J. and Sherer, K. (1994), 2nd Edition, W.B. Saunders Co.
7. Nutrition in Pediatrics, Walker, W.A. and Watkins, J.B. (Ed.) (1985): Boston, Little Brown & Co.

Semester X
Paper – 16
Basic Apparel Designing

Unit – I (a) Body Measurement – Procedure, need, figure, types and anthropometry.

(b) Equipments and tools used for manufacturing garments – advancements and attachments used for sewing machine. Types of machines used and their parts.

Unit – II (a) Elements and principles of design and its application to apparel. Illustrations and parts of garments.

(b) Fashion – Terminologies, Fashion cycle, Fashion Theories, Fashion Forecasting and factors affecting fashion.

Unit – III Patter making – drafting, draping and flat pattern making techniques & patter alteration and Dart manipulation techniques.

Unit – IV Apparel manufacturing – terminology used, seams, techniques and machines, patter alteration and dart manipulation techniques.

Unit – V Traditional Textiles of Indian-embroidered textiles, printed textiles, woven textiles, dyed textiles of various regions in India India,

Identification on the basis of Fiber content, technique, motif, colour and designed.

References:

1. Inside Fashion Design Harper and Row, Sharon Lee Tate, Publishers N. York.
2. Life styles, Fashion styles, Kathryn Samuel, Orbis London.
3. The changing world of fashion, Carter E. (1977); G.P. Putnam's Sons, New York.
4. The world of Fashion, Rubin L.G. (1976). canfield press, San Fransisco.
5. Fashion Kaleidoscope, Castelino M. (1994) Rup & Co.
6. The fashion makers Random house. Walz B. and Morris B. (1978).
7. Lifestyles – Fashion styles, Samuel, K. (1986). orbis Book Publishing Corporation Ltd., London.
8. Fashion Design and product Development. Carr, H. ad Pomery J (1992) Blackwell Scientific Publications London, Edinburgh, Boston.
9. Vastra Vigyan Evam Paridhan, Verma P,
10. Art in Everyday Life, Goldstein and Goldstein,.
11. Slampler, Sharp and Donnel,: Evaluating Apparel Quality, Fair Child Publications Newyork.
12. Dress Fitting, Natalle Bray, Published by Blackwell Science Ltd.
13. Design your own dress pattern, Margolis, Published by Double Day and Co. Newyor

Semester X

Paper - 17

Entrepreneurship Development for Women

- Unit – I Entrepreneurship : Concept, Need & process of Entrepreneurship, types of Enterprises, Factors affecting Entrepreneurial growth in India, Role of Enterprise in empowering women Economically, socially etc.
- Unit – II Women Entrepreneurship : Challenges for women entrepreneurship Govt. & Institutional support for Enterprise development and management.
- Unit – III Entrepreneurship Motivation & Competency : Important features of Entrepreneurial personality. Developing Entrepreneurship through training.
- Unit – IV Opportunities & Programmes : Entrepreneurial opportunities in different sectors. Entrepreneurship Development programmes for women.
- Unit – V Essential of Enterprise Establishment : Launching an enterprise – environment scanning, enterprise selection, market assessment. Set up Finance, Legal aspects, Consumer Market etc.

References:

1. Empowering Women- A.Kumar- Sarup & Sons, New Delhi.
2. Women Entrepreneurship- M. Sundarandian- Kanishka publishers New Delhi.
3. The changing position of Indian women- M.N.Srinivas, Oxford University Press, Bombay.
4. Women's Work, Class & Urban House hold- U.Sharma, Tavistock, London.
5. Women at Work in Developing Economy- N.K.Gupta & I.K.Sudan, Anmol Publications, New Delhi.
6. Indian Women: Change & Challenges in the International Decade: N.Desai & U. Patel, Popular Publication, Bombay.
7. A Decade of Women's Movement in India- N.Desai- Himalaya Publications. Bombay
8. Women & Work in Indian society- T.M.Dak Discovery, New Delhi.
9. Women Enterpreneurship-Developing, Patel, V.C. (1987): New Entrepreneurs, Ahmedabad EDII.
10. Entrepreneurship for Women in India, Akhauri, M.M.P. (1990): NIESBUD, New Delhi.
11. Indian Economy- its Growing Dimensions, Dhar, P.K. (1991): kalia Publishers, new Delhi.
12. Consumer Behaviours, Hawking D.I., Besi, R.J., Coney K.A. (1983). Revised Ed., Newman, J.W. Motivation Research & Marketing management, Prentice Hall.
13. Marketing management. Analysis, Planning and Control, Kotler, Philip. (1983). Prentice Hall Ltd., New Delhi.
14. Consumer Behaviour, Prentice hall of India, Schillman G. Leon, Kauk Lazer Lesha (1992): New Delhi

Semester X

Paper – 18

Communication for Development

- Unit – I Basic of Communication – Nature, Characteristics Functions, elements process, models, principles and types of communication, Levels of communication. Concept of development : Approaches, models, measurement and indicators of development.
- Unit – II Role of communication in development, need and importance, development journalism, writing for development – print, radio, television and internet.
- Unit – III Concerns of development communication, concept, health, environment, human rights, population, literacy, rural and tribal development.
- Unit – IV Traditional, modern and new media for development – folk forms of songs, art, dance, theatre, puppetry, advertisement, cinema, ICT's for development – community radio, participatory video, social media ad mobile phones.
- Unit – V Organisation / agencies / institutes working for development communication – local / state / national and International.

References:

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

Semester X
Paper – 19 (Practical)
Women Entrepreneurship

Project on Entrepreneurship fulfilling following objectives

1. To develop skills in entrepreneurship
2. To understand the principles of planning, organizing and controlling in different units.
3. Gain knowledge to manage manpower and establish good human relations.
4. Gain experience in financial management.

References:

1. Entrepreneurship – Starting, Developing and Managing a New Enterprise, Hisrich, R.D. and Peters, M.P. (1995): Richard D., Inwin, INC, USA.
2. The Women Entrepreneurs, Hisrich, R.D. and Brush, C.G. (1986). D.C. Health & Co., Toronto.
3. Effective Advertising. Barolia, G.R. & Sharma N.K. (1998). Marketing and Sales Management, Mangaldeep Publications, Jaipur.

Semester X
Paper – 20 (Practical)
Apparel Designing

- I. Handling of Sewing Machine.
- II. Sewing technique – Basic seams, seam finishers, fullness, gathers, pleats, darts, tucks placket opening, fasteners,, finishing of necklines and collars, Types of sleeves.
- III. Drafting of Adult Basic Bodice Block / Adult’s sleeve Block
- IV. Drafting stitching of plain and designer blouse
- V. Drafting stitching ladies, kurta, plazo and skirt.

References:

1. The World of Fashion, Leonard G. Rubin (1976):, Publication Canfield Press, San Fransisco.
2. Fashion Illustration Today, Thames and Hudson Ltd., Thames and Hudson (1994): London.
3. Fashion Design Illustration, Partick John Ireland : B.T. Batsford Ltd., London.
4. Illustrating Fashion, Kathryn Mokelvery and Jamine Munslow (1997): Blackwell Science Ltd.,
5. Constume Patterns and designs, Max Tilke (1990):, Rizzoli, New York.
6. The techniqes of Indian Embroidary, Anne Morroll (1995): B.T. Batsford Ltd., London.
7. Heritage – Traditional Border Collection, Prakash, K. (1996): The Design Point Publication.
8. Expresions – Ethnic Indian Textile Designs, Prakash, K. (1992): Deluxe Packaging.
9. Pattern making for / fashion design Armstrong,
10. Figure type range, Gioello and Berke : Fairchild publication, New York.
11. Concepts in Clothing, Grate & Storm, McGraw Hill book Co. New York.
12. Fashion Sketch Book. Bina Abling, Fairchild Publications, New York.
13. Fabric sewing guide, Clair Shaeffers : Chilton Book Company, Radnot, Pennsylvania.
14. The Technology of Clothing Manufacture, Harold Carr and Barbara Lathan : Oxford BSP Professional Book, London.
15. Evaluation Apparel, Slampller, Sharp & Donnell: Quality – Fairchild Publications, New York.
16. Dress Fitting, Natalle Bray Published by Blackwell Science Ltd.,
17. Design your own dress pattern published by Double Day, Margohs and Co. Inc., New York