



Raja Mahendra Pratap Singh State University, Aligarh

Structure of syllabus for P.G. Program

M.A Home Science Program on the basis of Choice Based Credit System (CBCS)

Course		Name of the Course	T/P/R	Credits	Marks (Int. + Ext.)
Code	Category				
Semester VII					
RA130101T	Major/Minor (Other faculty)	Family Studies	T	4	100 (25+75)
RA130102T	Major	Research Methodology	T	4	100 (25+75)
RA130103T	Major	Human Development	T	4	100 (25+75)
RA130104T	Major	Advanced Food Science	T	4	100 (25+75)
RA130105P	Practical	Advance Food Science	P	4	100 (25+75)
RA130106T	Minor (Other Faculty)		T	4	100 (25+75)
RA130107R	Project (Progressive)		R	4	
Semester VIII					
RA130201T	Major	Resource Management and Consumer Services	T	4	100 (25+75)
RA130202T	Major	Advanced Clothing and Textile	T	4	100 (25+75)
RA130203T	Major	Guidance and Counselling	T	4	100 (25+75)
RA130204T	Major	Extension Management and Community Development	T	4	100 (25+75)
RA130205P	Practical	Advanced Clothing Textile and Housing Equipments	P	4	100 (25+75)
RA130206R	Project		R	4	100
Semester IX					
RA130301T	Major	Children with Special Needs	T	4	100 (25+75)
RA130302T	Major	Housing and Interior Design	T	4	100 (25+75)
RA130303T	Major	Nutrition and Dietetics	T	4	100 (25+75)
RA130304T	Major	Advance Nutrition Education	T	4	100 (25+75)
RA130305P	Practical	Food & Nutrition and Dietetics	P	4	100 (25+75)
RA130306R	Project (Progressive)		R	4	
Semester X					
RA130401T	Major	Basic Apparel Designing	T	4	100 (25+75)
RA130402T	Major	Entrepreneurship Development for Women	T	4	100 (25+75)
RA130403T	Major	Communication for Development	T	4	100 (25+75)
RA130404T	Major	Fabric Ornamentation	T	4	100 (25+75)
RA130405P	Practical	Apparel Designing and Traditional Embroideries	P	4	100 (25+75)
RA130406R	Project		R	4	100



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Semester – VII

Family Studies

Paper – 1

Paper code: RA130101T

MM: 100

Credits: 4

- Unit – I (a) Family: definition, types of family- joint and nuclear. Distinction between joint and nuclear family. Recent changes in joint family, single parent's families. Factors responsible for changes or disorganization in joint family.
- (b) Marriage: disharmony, conflict, resolution of conflicts, family in crisis. Changing pattern in Indian marriage system.
- Unit – II Gender development: definition and awareness, gender roles and stereotypes 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 and 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 programs (a) Need of child welfare programme, national policies for children the development of women (b) Need of family welfare programme, national family welfare policies for women. (c) Mission shakti: needs and implementation in current scenario.



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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, THISS, 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



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Semester - VII

Paper – 2

Research Methodology

Paper code: RA130102T

MM: 100

Credits: 4

Unit – I Research

(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, types and function of hypothesis.

Unit – III (a) Data collection: primary and secondary data.

(b) Sampling and data gathering instruments: definition and characteristics of sample, types of sampling: probability and non probability sampling.

(c) Selection of tools for data collection: questionnaire, interview, observation, schedule and group discussion

Unit – IV Classification and tabulation of data

(a) Definition, objectives & types of classification

(b) General rules of tabulation

(c) Construction of frequency distribution

(d) 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, median, mode.

(b) Analysis and interpretation of data.

(c) Report writing and discussion.



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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. The Thesis and the Book, Haman, E. & Montagnes, I. (Eds.) (1997): New Delhi: Vistaar.
15. Social Research Methods: Qualitative and Quantitative, Bernard, H.R. (2000).
16. Statistics and Computer Applications, Star Publication, Agra, Dr. Anita Singh



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Semester - VII

Paper – 3

Human Development

Paper code: RA130103T

MM: 100

Credits: 4

- Unit – I (a) Growth and development: definition, principles of growth and development.
- (b) Prenatal and neonatal development: definition, stages of prenatal development, overview of birth process and complications.
- (c) Care during prenatal and neonatal development and factors affecting development during this stage.
- Unit – II (a) Infancy: definition, physical growth and development and factors influencing development during infancy.
- (b) Childhood: early and late childhood, definition, childhood care and education, activities to promote holistic development
- (c) Influence of family, peers, school, community and culture on personality development during childhood.
- Unit – III Adolescence: definition, characteristics, changes, challenges, vocational, aspiration, opportunities, carrier problems during adolescence.
- Unit – IV Adulthood: definition, characteristics, changing role and responsibilities in early and middle adulthood, psychological and social adjustment in late adulthood.
- Unit – V Ageing: definition, physical and psychological changes, care and needs of elderly people.



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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 Manovigyaaan, 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.



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Semester - VII

Paper – 4

Advanced Food Science

Paper code: RA130104T

MM: 100

Credits: 4

- Unit – I Introduction of food science: constituents of foods, general, physical and chemical properties of food, importance of enzymes.
- Unit – II: (a) Cereals, millets and products: types, composition and structure, functional properties of starch, wheat starch and gluten formation, properties of amylase and amylopectin. Importance of millets and its products (b) Pulses and legumes: composition and structure, selection and 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, classification and changes occurring during cooking
- (b) Fruits: composition, changes occurring during maturation and ripening, pigments and flavour constituents.
- (c) Processed foods: Jams, jellies, squashes, pickles



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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. World Reviews of Nutrition and Dietetics.
8. Food Science, Seventh edition, B. Srilakshmi.
9. Nutrition Science, Third edition, B. Srilakshmi.
10. Foods, Facts and Principles, Shakuntala Manay.
11. vkgkj foKku] MkO noh ukFk lgk;

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 the Oil Chemistry Society.
7. European Journal of Clinical Nutrition.
8. International Journal of Vitamin and Nutrition Research.
9. International Journal of Food Science and Nutrition.
10. Nutrition Research
11. Asian Journal of Food Science



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Semester VII
Paper – 5 (Practical)
Advance food science

Paper code: RA130105P

MM: 100

Credits: 4

- 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 jam, jellies, squashes and pickles



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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



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Semester VIII

Paper – 6

Resource Management and Consumers services

Paper code: RA130201T

MM: 100

Credits: 4

- Unit – I Home Management: (a) Meaning, definition and importance of home management. Management process: planning, controlling, organizing, evaluation. (b) Motivating factors of management: values, goals and standard. (c) Decision making: meaning, definition, steps of decision making and stages of family life cycles. (d) Management of time, energy, money, space and motivating factors of it.
- Unit – II Resources: (a) Meaning, classification, characteristics and factors affecting use (b) Stages of family life cycle. (c) Management of time, energy, and money (d) 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 behaviors, consumer problems, education and empowerment.
- Unit – V Consumer protection: consumer organization, cooperatives, standardization, standard marks, quality control, buying aids and consumer legislation.



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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



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Semester VIII

Paper – 7

Advanced Clothing & Textile

Paper code: RA130202T

MM: 100

Credits: 4

- Unit – I Textile terminologies (a) Fibre, 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, linen, silk, wool, rayon, nylon & polyester; properties and their 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 and 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 uses.



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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.



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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) 4thed.
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.



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Semester VIII

Paper – 8

Guidance and Counseling

Paper code: RA130203T

MM: 100

Credits: 4

- 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.



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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, Auther 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.



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Semester VIII

Paper - 9

Extension Management and Community Development

Paper code: RA130204T

MM: 100

Credits: 4

- Unit – I Extension Education: Meaning and objectives. Philosophy and principles of extension program development.
- Unit – II Program management: need assessment, planning, organization, implementation, monitoring and evaluation.
- Unit – III Audio visual aids: need, importance, use, classification and preparation of audio visual aids.
- 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



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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.



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Semester VIII

Paper – 10 (Practical)

Advanced Clothing Textile and Housing Equipments

Paper code: RA130205P

MM: 100

Credits: 4

- I. Identification of textile fibres by burning test and chemical test.
- II. Preparation and identification of weaves.
- III. Tie and dye, batik, 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



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Semester IX

Paper – 11

Children with Special Needs

Paper code: RA130301T

MM: 100

Credits: 4

- 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 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.



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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 OrlanskyCharles 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.



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Semester IX

Paper – 12

Housing and Interior Design

Paper code: RA130302T

MM: 100

Credits: 4

- 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, elements 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.



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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. Grecks 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 Ettieens (1979):, New York.



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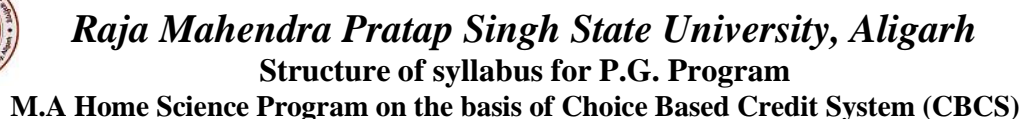
Semester IX
Paper – 13
Nutrition and Dietetics

Paper code: RA130303T

MM: 100

Credits: 4

- Unit – I Food groups: Balanced diet, food pyramid, food groups according to Indian Council of Medical Research (ICMR).
- Unit – II Nutrients: Role of nutrients in the body, nutritional deficiencies and requirements for Indians.
- Unit – III Community nutrition, sports nutrition, nutrition in emergencies and disasters. Assessment of nutritional status by Direct and Indirect Methods.
- 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 underweight, overweight, obesity, anemia, dysentery, peptic ulcer, hepatitis, nephritis, hypertension, atherosclerosis and diabetes mellitus, Dietitian - responsibilities and role of counseling.



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.
11. **ii.k vlgkj ,o ik'k.k foKku] LVkj ifdyd"ku vlxjk] Mk0 vuhrk flg**



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Semester IX

Paper – 14

Advance Nutrition Education

Paper code: RA130304T

MM: 100

Credits: 4

- Unit – I Introduction to nutrition science: (a)Types of nutrition, Recommended Dietary Allowances (RDA). (b) Balanced diet: definition and factors affecting it. (c) Basal Matabolic Rate (BMR): definition and factors affecting it. Total energy requirement and factors affecting it.
- Unit- II Assessment of nutritional status: clinical examination, dietary assessment and anthropometric measurement.
- Unit –III National nutrition education programmes, national nutrition policies and programs to control malnutrition. Role of national and international agencies in the field of nutrition and malnutrition: WHO, FAO, UNICEF, ICAR, ICMR, NIN, CFTRI and Nutrition Society of India. Nutrition education- methods and teaching aids.
- Unit – IV Historical and cultural perspective of traditional foods of India.
- Unit – V Evaluation of foods by visual examination and sensory evaluation (colour, texture, flavour, appearance and taste)



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References:

1. Food, Nutrition & Health- G. Biswal & C.Lenka, Kalyani Publishers, New Delhi.
2. Human Nutrition & Dietetics – Davidson & Passmare
3. Nutrition Science – B.Srilakshmi, New Age international (P) Limited, New Delhi.
4. Food processing and Preservation – G. Subhalakshmi & Shobha A. Udipi, New Age International (P) Limited, New Delhi.
5. Edelstein S. (2006) Nutrition in Public Health. A handbook for developing programmes and services. Second Edition. Jones and Bartlett Publishers.
6. Gibney M.J., Margetts, B.M., Kearney, J. M. Arab, I., (Eds) (2004) Public Health Nutrition, NS Blackwell Publishing.
7. Klein, R. E. (Ed) (1979) Evaluating the Impact of Nutrition and Health Programmes. London and New York: Plenum Press.
8. Owen. A. Y. and Frankle, R. T. (1986) Nutrition in the Community. The Art of Delivering Services, 2nd ed. Times Mirror/ Mosby.
9. Park, K. (2009) Park's Textbook of Preventive and Social Medicine, 20th ed. Jabalpur M/s. Banarsidas Bhanot.
10. Food Facts and Principles -N. Shakuntala Manay & M. Shadaksharaswamy, New Age International (P) Limited, New Delhi.
11. Essentials of Food and nutrition – M.Swaminathan, Vol I & II, The Bangalore Printing & Publishing Co. Ltd (BAPPCO)
12. Nutrition & Dietetics- Subhangini Joshi, McGraw Hill Education (India) Pvt. Ltd.
13. Food, Nutrition & Health- G. Biswal & C.Lenka, Kalyani Publishers, New Delhi.
14. Human Nutrition & Dietetics – Davidson & Passmare
15. Text Book of Human Nutrition- Mahtab S. Bamji, N.Rao & V. Reddy, Oxford & IBH Publishing Co. Pvt Ltd.
16. Human Nutrition & Dietetics- J.S.Garrow ,W.P.T.James, A. Ralph –Churhill Livingstone.



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Semester IX
Paper – 15 (Practical)
Nutrition and Dietetics

Paper code: RA130305P

MM: 100

Credits: 4

- 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
 - (i) Overweight/ Obesity
- IV. Traditional foods of India.
- V. Evaluation of foods and development of low cost nutritive recipes suitable for various vulnerable groups.



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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.



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Semester X

Paper – 16

Basic Apparel Designing

Paper code: RA130401T

MM: 100

Credits: 4

- Unit – I (a) Body measurement: Procedure, need, figure, types and anthropometry.
- (b) Equipments and tools used for manufacturing garments: advancements and accessories 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 Pattern making: drafting, draping and flat pattern making techniques & pattern alteration and dart manipulation techniques.
- Unit – IV Apparel manufacturing: terminology used, seams, techniques and machines, pattern alteration and dart manipulation techniques.
- Unit – V Traditional textiles of India: embroidered textiles, printed textiles, wave textiles, dyed textiles of various regions in India, identification on the basis of fiber content, technique, motif, colour and design.



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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 charging 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, Natalie Bray, Published by Blackwell Science Ltd.
13. Design your own dress pattern, Margolis, Published by Double Day and Co. Newyor



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Semester X

Paper - 17

Entrepreneurship Development for Women

Paper code: RA130402T

MM: 100

Credits: 4

- 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.



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References:

1. Empowering Women- A.Kumar- Sarup & Sons, New Delhi.
2. Women Entrepreneurship- M. Sundarpandian- 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 Entrepreneurship-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



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Semester X

Paper – 18

Communication for Development

Paper code: RA130403T

MM: 100

Credits: 4

- 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.



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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



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Semester X

Paper - 19

Fabric Ornamentation

Paper code: RA130404T

MM: 100

Credits: 4

- Unit – I Historical significance, identification, characteristics, construction techniques and uses of embroideries.
- Unit –II Embroideries: Study of Indian embroidered textiles with reference to styles, textures, motifs of Kashmiri embroidery, phulkari, chamba rumals, kasuti, kantha, chikankari, kutch etc.
- Unit– III Traditional woven fabrics: Study of Indian woven textiles with reference to: styles, textures, motifs of Banaras brocades, paithni, jamdani, chanderi, balucheri, maheshwari, kanjeevaram, etc.
- Unit – IV Applique work: Significance and application of applique work- basics, hand appliqué; machine appliqué, bias tape appliqué, reverse appliqué techniques.
- Unit – V Quilting: significance and application of quilting in home furnishing- the art, quilting tools, designs; basic quilting techniques.



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References:

1. Textiles- Fiber to Fabric, 6th edition, Corbman P. B. (1989) Mc Graw Hill, New York.
2. Handcrafted Indian Textiles- Tradition and Beyond, Chisti, Rta, Kapur and Jain, Rahul (2000) Roli Books Pvt. Ltd., New Delhi.
3. Traditional Indian Textiles, Thames and Hudson Ltd., Gillow, John and Barnard, Nicholas (1994) 30, Bloomsbury Street, London WC 1B 3 QP, London.
4. Textiles, 6th Edition, Hollen N., Saddler J., Langford A.L., Kadolph S.J. (1988) Macmillan publishing Company New York, USA
5. Essentials of Textiles, 6th Edition, Joseph, M.L. (1988) Florida: Holt, Rinehart and Winston Inc.
6. Fabric Science, 11th Edition, Pizzoto's J.J. New York: Fairchild Publication.
7. Textile Science, India: D. Rastogi (Ed.) and S. Chopra (Ed.) (2017), Orient Black Swan.
8. Masterpieces of Indian Textiles, Rustarm; J. Mehta, (1970), D.B.Taraporevala Sons & Co., Pvt.Ltd.
9. The Thames and Hudson- Manual of Textile Printing. (1974), Joyee Storey, Thames and Hudson –London.



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Semester X

Paper – 20 (Practical)

Apparel Designing and Traditional Embroideries

Paper code: RA130405P

MM: 100

Credits: 4

- I. Handling of sewing machine.
- II. Sewing technique – Basic seams, seam finishers, fullness, gathers, pleats, darts, tucks, placket opening, fasteners, finishing of necklines, types of sleeves and collars.
- III. Drafting of adult basic bodice block / adult's sleeve block
- IV. Embroidery, applique work and quilting work.
- V. Drafting stitching ladies, kurta, plazo and skirt.



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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 techniques 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, Slampler, Sharp & Donnell: Quality – Fairchild Publications, New York.
16. Dress Fitting, Natalie Bray Published by Blackwell Science Ltd.,
17. Design your own dress pattern published by Double Day, Margohs and Co. Inc., New York