

Proposed

**National Education Policy 2020 Inserted
Pre- Ph.D. Course Work for**



**Doctor of Philosophy
In Home Science
(Session 2022-23 Onwards)**

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Pre- Ph.D. Course work for Ph.D. in Home Science

Paper code	Subject/ specialization	Credits	L-T-P-C		Marks	
	Compulsory Paper I			Sessional	End Semester	Total
DPH771	Research Methodology	4	1-1-0-2	40	60	100
	Compulsory paper II					
	Elective paper I (Only one paper opted)	6	1-1-0-2	40	60	100
DPH772	Clothing and comfort					
DPH773	Recent advances in textile and apparel designing					
DPH774	Public health Nutrition					
DPH775	Advances in food microbiology					
DPH776	Theories of Human Development					
DPH777	Mental health in development perspective					
DPH778	Community organization					
DPH779	Development project manager					
DPH780	Interior Designing					
DPH781	Management of family and organization					
	Elective paper II (only one paper opted)	6	1-1-0-2	40	60	100
DPH782	Apparel production and management					
DPH783	Functional clothing					
DPH784	Clinical and therapeutic nutrition					
DPH785	Advanced human nutrition					
DPH786	Women studies					
DPH787	Early childhood care and education					
DPH788	Development Communication					
DPH789	Media development					
DPH790	Human resource management					
DPH791	Consumer studies					
	Total	16				300

Total credits of the 6 months Ph.D. course work (Home Science) are 16.

**Syllabus
of
Pre-Ph.D. Course
work
(Home Science)**

Compulsory paper- I

Research Methodology

Course / paper code – DPH771

L-T-P-C

1-1-0-2

Objectives:

- ❖ To understand the significance of research methodology in home science research.
- ❖ To understand the type's tools and methods of research and development the ability to construct data gathering instruments appropriate to the research design.

Contents:

Unit I

1. Concept of research methodology, importance and scope of research in home science.
2. Types of research historical, survey and experimental, case study, social research, participative research.
3. Definition and identification of research problem.
 - a. Selection of research problem.
 - b. Justification

Unit II

1. Theories, hypothesis, basic assumption, limitation and delimitation of the problem.
2. Types of variables.
3. Theory of probability.
 - a. Population of sample.
 - b. Probability sampling systematic random sampling, two stages and multi stage sampling, cluster sampling.

Unit III

1. Basic principles of research design.
2. Qualitative research design.

Unit IV

1. Definition and type of qualitative research.
 - a. Research and techniques of data collection.
 - b. Informal group discussion.
 - c. Interview: Key information, In – depth interviews
 - d. Observation.
 - e. Social mapping.
 - f. Participatory rapid assessment.
 - g. Participatory learning assessment.

Unit V

1. Basic knowledge of computer, use of computer in research, Data analysis soft wares and analysis techniques, use of multimedia tools, use of MS office, preparation of power point preparations, use of internet in research purpose, Introduction to UGC infonet, INFLIBNET, and ERNET etc.

2. Scientific conduct: Ethics with respect to science and research, intellectual honesty and research integrity, Scientific misconducts- falsifications, fabrications and plagiarism (FFP). Redundant publications: duplicate and overlapping publications salami slicing; selective reporting and misrepresentation of data.
3. Publication ethics: Definition, concept problems that lead to unethical behaviour and vice versa, type violation of publication ethics authorship and contributor ship. Software tools: use of plagiarism software like Turnitin, Urkund and other open- source software tools.

References:

1. C. R. Kothari, Gaurav Garg, 2014, Research methodology method and techniques, (3rd edition), New age international publishers.
2. Bandarker, P.L., and Wilknsn T.S. 2000, Methodology and techniques of social research, Himalay publishing house, Mumbai
3. Bhatnagar, G.L. 1990, Research methods and measurements in academy, New Delhi.
4. Dhandhyal, S.P., Social science research and thesis writing.
5. http://www.ugc.ac.in/pdfnews/7771545_academic-integrity-regulations2018.pdf

Elective paper - I (Only one paper opted)

Clothing and Comfort

Paper code: DPH773

L-T-P-C

1-1-0-2

1. Clothing as a portable environment
2. Clothing climate: micro and macro climate
3. Comfort in clothing: Theory and principles
4. Factors affecting physical and psychological comfort in clothing
5. Heat transfer in apparels
6. Function of clothing in thermoregulation
7. Breathable textiles: Requisite clothing characteristics
8. Apparel suitable for warm and cool weather: Clothing requisite for energy conservation
9. Aerodynamics of clothing: Role of air and wind
10. Hydrokinetics of clothing: Static electricity, absorption, heat, water uptake, sweat removal and wicking
11. Clothing hygiene: discomfort, dermatitis and allergy
12. Antibacterial and UV protection through finishes

References:

- Harrold and Barbara. The Technology of Clothing Manufacture, Oxford BSP Profession book London.
- R. Vatsala, Textbook of Textile and Clothing, ICAR publications

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Recent advances in Textiles and Apparel Designing
Paper code: DPH774

L-T-P-C

1-1-0-2

1. Recent advancement in production and manufacture of –
 - Textile fibres
 - Yarns
 - Fabrics
2. Recent advancement in dyeing and dyeing machinery
3. Recent advancement in printing and printing machinery
4. Chemical processing of natural and synthetic textiles
5. Recent advancement in finishes
6. Recent advancement in garment embellishments
7. Technical textiles

References:

- V.A. Shenai. Technology of Textile Processing. Vol. IV. Sevak Publication.
- R.S Prayag. Technology of Textile Printing. Noyes Data Corporation.
- R. Vatsala, Textbook of Textile and Clothing, ICAR publications
- Nalini Srivastava, Tie and dye, PanditSunderlal Sharma Central Institute of Vocational Education

Public Health Nutrition**Paper code: DPH775****L-T-P-C****1-1-0-2****1. Concept of Public Nutrition:**

Concept of community, socio-cultural aspect of food preference, relationship between health and nutrition, role of public nutritionists in the health care delivery system.

2. Health and Development Indices:

Health indices and related indices in community health, fertility indicators, vital statistics, mortality, morbidity indicators, demographic indicators- sex ratio indicators for social and mental health, human development index, disability adjusted life years (DALY), reproductive Health Index.

3. Nutritional problem of Community:

Global perspectives in malnutrition, protein-energy malnutrition, vitamin A deficiency, anaemia, iodine deficiency disorder, fluorosis and their control and management.

4. Nutritional epidemiology:

Concept and scope, classification of growth standard (Gomez and Waterlow), growth charts, population health index, methods for assessing nutritional status, case control and cohort studies.

5. Nutrition and Policy Planning:

Aims, government guidelines and policy, governmental and non-governmental organization, health care delivery system in rural and urban India

6. National Nutritional Programme:

Planning, execution and evaluation of various health programs (special nutritional program, mid-day meal, ICDS, IDD), Immunization.

References

- Park, K. (2000): Textbook of Preventive and Social Medicine. M/S Banarsidas Bhanot; Jabalpur.
- Park, K. (2000): Essentials of Community Health Nursing. M/S Banarsidas Bhanot; Jabalpur.
- Maneikar, R.K. (1997): A Textbook of Community Health for Nurses, Vora Medical Publication; Mumbai.
- Dutt, P.R. (1993): Primary Health Care. Vol. 1-3. Gandhigram Institute of Rural Health and Family Welfare Trust, Ambathurai.

Advances in Food Microbiology
Paper code: DPH776

L-T-P-C

1-1-0-2

1. Introduction to microbes:

- Bacteria, Fungi, Algae, Viruses.

2. Sources of Food contamination:

- Air, Water, Soil, Sewage, Post-processing, Pesticide, Insecticide.

3. Factors affecting the growth of microorganisms in food:

- Intrinsic and Extrinsic parameters that affect microbial growth.

4. Spoilage of different groups of foods: Cereal and cereal products, vegetables and fruits, meat and meat products, eggs and poultry, fish and other sea foods, milk and milk products, canned foods.

5. Food borne diseases:

- Causes and prevention of bacterial, fungal, viral and other infectious diseases.

6. Food Preservation:

- Physical methods- drying, freeze drying, cold storage, heat treatments, irradiation, high pressure processing.
- Chemical preservatives and natural antimicrobial compounds.

7. Indicators of food safety and quality:

- Microbiological criteria of foods and their significance.

8. The HACCP system and food safety used in controlling microbiological hazards.

9. Role of microbes in fermented foods and genetically modified foods.

References

- Frazier, J. & Westhoff, D.C. (1988). Food Microbiology. 4th Ed. McGraw Hill.
- Banawart GJ. (1989). Basic Food Microbiology. 2nd Ed. AVI Publications.
- Jay, J.M., Loessner, M.J. & Golden, D.A. (2005). Modern Food Microbiology. 7th Ed. Springer.
- Ray, B. (2004). Fundamentals of Food Microbiology. 3rd Ed. CRC
- Species, J.F.T. Food Microbiology Protocols. Humana Press Tolowa

Theories of Human Development
Paper code: DPH777

L-T-P-C

2-0-0-2

1. Freud's Psychoanalytic Theory: Freudian theory, neo-Freudians, cross-cultural relevance, current status
2. Learning Theory: Pavlov, Watson, Skinner, Thorndike; cross-cultural relevance and current status
3. Cognitive developmental theory: Piaget's theory, cross-cultural relevance and current status; Vygotsky's theory, cross-cultural relevance and current status
4. Social learning and social cognition theories: Bandura's theory, cross cultural relevance and current status

References

- 1.Crain, W. (1992). Theories of Development, Concepts and applications. New Jersey: Prentice Hall.
- 2.Newman, B.M. and Newman, P.R. (2007). Theories of Human Development. Psychology Press
- Salkind, Neil, J. (2004) An Introduction to Theories of Human Development. Sage Publications.

Mental Health in Developmental Perspective

Paper code: DPH778

L-T-P-C

2-0-0-2

1. Mental Health

- Definition, Concept and importance of holistic health, well-being and happiness.
- National mental health policy of India (1982)
- Community mental health: needs and programmes

2. Infancy

- Implication of attachment and bonding for mental health; deprivation syndrome
- Malnutrition and its effect on growth and behaviour
- Intervention with families and professionals from allied fields

3. Early Childhood years

- Mental health needs: safety, security, relationships, autonomy and self-concept, nutrition and health
- Behaviour difficulties manifested at this stage, e.g. feeding problem, aggression, withdrawal problems related to early schooling and formal leaving
- intervention work with children, families, teachers and other significant adults

4. Middle Childhood

- Mental health needs: recognition, appreciation, friendships and industry
- School related problem e.g. discipline, truancy, fears and phobias, learning difficulties and disabilities
- Maladjustment at home and school
- Providing guidance to children, parents, teachers, peers and school administration

5. Adolescence

- Mental health needs: sense of identity, autonomy, individualism
- Problems related to physical appearance, development and relationships
- Problem related to sexuality
- Authority-adolescent conflicts (e.g. parents, school authorities, grandparents)
- Guidance and Counselling of adolescents by parents and other significant adults, school personnel

6. School Mental Health programmes

- Need for mental health programmes for identification and intervention
- Improving school climate
- importance of sensitizing and involving administrators and teachers in mental health aspects of children
- Orienting teachers to attend to developmental behaviour problems in the classroom

7. Adulthood

Mental health problems in the community:

- Life events that cause stress, e.g. Separation due to death, migration etc.
- Substance abuse and addiction
- Violence and sexual abuse

Management and stress counselling, training in relaxation, yoga, meditation

References

- Morrison, R. and Herrick, N. (2010). Psychiatric Disorders with Relevant Remedies. B. Jain Regular.
- Coer, R.J. and Comer, J.S. (2017) Abnormal Psychology. Worth Publishers
- Lebowitz, E.R. and Omer, H. (2013). Treating Childhood and Adolescent Anxiety: A Guide for Caregivers. Wiley.
- Gopalkrishnan, N. (1994). Mental Health and You. Mumbai: Popular Prakashan.

- d. Patil, Asha Ramagonda. (2013): Community Organization and Development, PHI Learning Pvt. Ltd.
- e. Narula, Uma, (2019): Development Communication- Theory and Practice, Har-Anand Publication Pvt. Ltd.
- f. Pankajam, G. (2000): Extension: Third Dimension of Education, Gyan Books Private Ltd.

Development Project Management**Paper code: DPH780****L-T-P-C****1-1-0-2****1. Programme design and evaluation**

- Programme planning
- Plan of work
- Programme implementation
- Evaluation and Follow-up
- Documentation

2. Environment management

- Fundamentals of environment
- Eco-system- Earth, Man and Environment
- Population and Environment
- Land and water recourse of the earth
- Factors affecting changes in ecosystem and environment (social, economic, cultural and geographic)
- Population and environment with reference to Air, water, soil, noise
- Environment and public health
- Waste management
- Environment control measurement
- Role of local municipal authority, government and non-government agencies in promoting better health environment

3. Extension management

- Concept of extension management
- Steps in extension management
- Personal management

- Efficiency of personnel
 - Qualities of a good extension manager
4. Community health management
 - Concept of health and health care
 - Health and development Indices
 - Community health needs and problems
 - Health care services
 - Management information system in health
 - Ecology and environment
 - Health needs of special groups
 5. Development project management
 - Basic concept of project planning
 - Project identification
 - Project formulation
 - Project appraisal
 - Project format
 6. Entrepreneurship management
 - Conceptual framework
 - The entrepreneur
 - Launching and organising an enterprise
 - Growth strategies
 - Enterprise networking

References:

- a. Chandra, Prasanna. (2017): Projects: Planning, Analysis, Selection, Financing, Implementation and Review, Tata Mcgraw-Hill

- b. Dangi, Dileep Kumar (2016): Research Methodology in Extension Education, Satish Serial Publishing House
- c. M, Suply M. (2014), Introduction to Environment Management, PHI Learning Pvt. Ltd.
- d. Sankar. Ajith. (2015), Environment Management, Oxford Higher Education.
- e. Stoner and Wankel (2008), Global Sustainability Initiatives: New Models and New Approaches, Information Age Publishing.
- f. Ray, G.L. (2017): Extension Communication and Management, Kalyani Publishers
- g. Dwyer et al. (2004): Project Management Health Community Services, Allen & Unwin.
- h. Richardson and Jackson (2018): Project Management Theory and Practice, Aurbach publications
- i. Khanna, S. S. (2007): Entrepreneurship Management, S. Chand & Company Ltd.

Interior Design
Paper Code: DPH781

L-T-P-C

2-0-0-2

- a) Residential interior space design
- In-depth understanding of residential interior space design point of view
 - Study of factors influencing furnishing of residential interior spaces
 - Factors to be considered while designing
 - Basics of furniture design and types of furniture design
 - Current trends in interior design
 - Application of appropriate materials for various uses
 - Study of various types of fixture and fittings use in interiors, their use, selection and care
- b) Landscaping
- Introduction of landscaping from interior space design point of view
 - Historical references of landscape
 - Location and orientation
 - Climatic condition
 - Land profile
 - Soil types
 - Availability of water sources
 - Understanding of various materials for paving, walk way etc. (stone masonry, bricks)
 - Fencing to entrance gate and other gates
 - Tree guards sit-outs
 - Open frame sheds for semi-shedy plants
 - Green house
 - Gazebo
 - Pedestals, monuments, statues, abstract etc

Management of Family and Organization**Paper code: DPH782****L-T-P-C****1-1-0-2****1. Theory of management**

- History and development of management in India and elsewhere
- Management as a system
- Management ability
- Decision-making
- Management functions and process
- Human behaviour in organisations
- Ends sought through management

2. Entrepreneurship management

- Conceptual framework
- The entrepreneur
- Launching and organising an enterprise
- Growth strategies
- Enterprise networking

3. Management of human resources

- Principles of human resource use
- Efficiency in use of human resource
- Motivation vs. Productivity
- Fatigue and impairment
- Methods of research in new resources
- Methods and techniques for improving resource use
- Training for personality development and leadership
- Action problem

- Pargoles in various materials
- Study of indoor and outdoor plant species (natural/artificial)
- Variety of shrubs, creepers, grass etc. (natural/artificial)
- Drainage
- Water bodies
- Garden furniture

References:

- a. Mitton. M. (2016): Residential Interior Design: A Guide to Planning Spaces, John Wiley & Sons; 3rd edition (17 June 2016)
- b. Johnsons. James (2007): Landscaping: A Simple Beginners Guide to Landscaping on a Budget, Kindle Edition

Management of Family and Organization**Paper code: DPH782****L-T-P-C****1-1-0-2****1. Theory of management**

- History and development of management in India and elsewhere
- Management as a system
- Management ability
- Decision-making
- Management functions and process
- Human behaviour in organisations
- Ends sought through management

2. Entrepreneurship management

- Conceptual framework
- The entrepreneur
- Launching and organising an enterprise
- Growth strategies
- Enterprise networking

3. Management of human resources

- Principles of human resource use
- Efficiency in use of human resource
- Motivation vs. Productivity
- Fatigue and impairment
- Methods of research in new resources
- Methods and techniques for improving resource use
- Training for personality development and leadership
- Action problem

4. Hospitality administration

- Types of institutions offering hospitality services
- Hospitality functions
- Management of housekeeping department
- Administrative policies
- Hostess training
- Banquet management
- Energy and water management
- Communication system
- Maintenance

References:

- a. Chandra. Prasanna (2019): Financial Management: Theory and Practices, McGraw-Hill, Tenth edition (20 April 2019)
- b. Khanna, S. S. (2007): Entrepreneurship Management, S. Chand & Company Ltd.
- c. Dessler and Varrkey (2017): Human Resource Management, Pearson Education, 15th edition (26 December 2017)
- d. Sturman. M. C. (2011): The Cornell School of Hotel Administration on Hospitality: Cutting Edge Thinking and Practice, John Wiley & Sons; 1st edition (1 May 2011)

Elective paper - II (Only one paper opted)**Apparel Production and Management****Paper code: DPH781****L-T-P-C****1-1-0-2**

1. Status of apparel industry in India- production, marketing, distribution, consumption and export trends in last five years
2. Organizational setup of apparel industry: principle of management, planning and organization
3. Industrial apparel production-
 - Designing department,
 - Production department (Cutting, sewing, finishing etc.),
 - Marketing department
 - Finance department
4. Recent advancement in industrial cutting, sewing and finishing machine
5. Technology upgradation of apparel units-
 - CAD (Computer Aided Designing)
 - CAM (Computer Aided Manufacturing)
6. Problems of Apparel industry
7. SWOT analysis

References:

- Frings G.S, Fashion form Concept to Consumer Prentice Hall Inc. Engelwood Cliff's New Jersey.
- Chuter A.J, Introduction to Clothing Production Management, Blackwell Science Ltd.
- Stone E. and Sample J.A, Fashion Merchandising: An Introduction, McGraw Hill Book.
- Michel Armstrong, A handbook of management techniques Kogan page limited.

Functional clothing
Paper code: DPH784

L-T-P-C

1-1-0-2

1. Socio psychological aspects of clothing
2. FEA (Function, expressive and aesthetics) model of functional clothing
3. Fastening system in clothing
4. Clothing requirement for expecting and lactating mothers
5. Clothing requirement for military person
6. Clothing requirement for physically disabled person
7. Sports clothing- importance, requirements and designing features
8. Protective clothing-
 - Farm workers
 - Industrial workers
 - Fire-fighters, etc.

References:

- Armstrong, pattern making for Fashion Design
- Gioello and Berk; Figure Type and Size, Fair child publication, New York.
- BeenaAbling, Fashion Sketch book, Fair child publication, New York.
- Harrold and Barbara. The Technology of Clothing Manufacture, Oxford BSP Profession bookLondon.
- NatelleyBrey, Dress Fitting. Published by Blackwel
- Fiber, Fabric and Fashion- S. Srivastava, Central Publication, Allahabad

Clinical and Therapeutic Nutrition

Paper code: DPH785

L-T-P-C

1-1-0-2

1. Nutritional screening and assessment of nutritional status of hospitalized and outdoor patients:

- Identification of high risk patients.
- Assessment of patient needs based on interpretation of patient data- clinical, biochemical, biophysical, personal etc.

2. Newer trends in delivery of nutritional care and dietary counselling.

3. Nutritional support:

- Recent advances in techniques and feeding substrates.

4. Etiopathophysiology, metabolic and clinical aberrations, complications, prevention and treatment through diet

- Weight imbalances
- Cardiovascular disorders
- Diabetes mellitus and other metabolic disorders
- GI tract disorders
- Liver and gall bladder, pancreatic disorders
- Renal disorders
- Cancer
- Neurological disorders
- Infections and AIDS
- Respiratory problems

5. Life cycle nutrition: Nutrient requirements and diet plans for different stages of life:

- Pregnancy

- Lactation
- Infancy
- Childhood
- Adolescence
- Adulthood
- Geriatric group

References

- Shils, M.E. (2006). *Modern Nutrition in Health and Disease*. Lippincot, Williams & Williams, USA.
- Mahan, L.K. & Escott Stump, S. (2000). *Krause's Food Nutrition and Diet Therapy* 10th Ed., WB Saunders & Co. London.
- Passmore, R. & Eastwood, M. A. (1986). *Human Nutrition & Dietetics*. ELBS Churchill Livingstone.
- Bamji, M.S, Rao, N.P & Reddy, V. (1996). *Textbook of Human Nutrition*. Oxford & IBH Publishing Co. (P) Ltd. Delhi.
- Gopalan, G. Rama Shastri, B.V. & Balasvramnian, S.C. (2000). *Nutritive Value of Indian Foods*, National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
- Whitney, E.R and Rodney Roltes, S. (1996). *Under Standing Nutrition*. West Publishing Company, New York, USA.
- Khanna, K. (2007). *Textbook of Nutrition and Dietetics*. Elite publishing house, New Delhi.
- Antia, F.P. & Abraham, P. (1997). *Clinical Dietetics and Nutrition* 4th Ed., Oxford University Press, New Delhi.

Advanced Human Nutrition

Paper code: DPH786

L-T-P-C

2-0-0-2

- 1. Energy:** Energy content of foods. Measurement of energy expenditure: BMR, RMR, Thermic effect of feeding and physical activity, methods of measurement. Estimating energy requirements of individuals and groups.

- 2. Carbohydrates:** Types, classification, digestion, absorption and transport, dietary fibre, fructo-oligosaccharides, resistant starch- chemical composition and physiological effects. Glycemic index of foods. Sweeteners – nutritive and non-nutritive.

- 3. Proteins:** Classification, digestion, absorption and transport, metabolism of proteins, protein quality, methods of evaluating protein quality, protein and amino acids requirements.

- 4. Lipids:** Classification, digestion, absorption and transport, Functions of EFA. Role of n-3, n-6 fatty acids in health and disease. Requirements of total fat and fatty acids.

- 5. Minerals:** each nutrient sources, bioavailability, metabolism, function. RDI, deficiency and toxicity, interactions with other nutrients are to be discussed).
 Macro-minerals: Calcium, phosphorus, magnesium, sodium, potassium and chlorine
 Micro-minerals: Iron, copper, zinc, manganese, iodine, fluoride
 Trace-minerals: Selenium, cobalt, chromium

- 6. Vitamins:** Types, sources, function, dietary requirements. Deficiency and toxicity of fat soluble and water soluble vitamins.

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

References

- Shils. M.E. (2006). Modern Nutrition in Health and Disease. Lippincot, Williams & Williams, USA.
- Khanna, K. (2007). Textbook of Nutrition and Dietetics. Elite publishing house, New Delhi.
- Gopalan, G. RamaShastri, B.V. & Balasvramnian, S.C. (2000). Nutritive Value of Indian Foods, National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
- Bamji, M.S., Rao, N.P & Reddy, V. (1996). Textbook of Human Nutrition. Oxford & IBH Publishing Co. (P). Ltd. Delhi.
- Swaminathan, M. (2009). Textbook of Food and Nutrition. Bappco publishers, Bangalore.

Women Studies
Paper code: DPH787

L-T-P-C

2-0-0-2

1. The rationale for Women's studies

- Meaning and Significance
- Growth of women's studies in India and other countries
- The women's movement in India
- Orientation to feminist theories

2. Theoretical Perspectives in women's studies

- Consequences of gender differences
- Sexual division of labour and its implications: discrimination, invisibility and devaluation
- Historical and socio-cultural basis of women's status.

3. Understanding concepts related to gender differences from societal and developmental perspective

- Patriarchy
- Caste, class culture and gender interface
- Gender and Education
- Economic empowerment and gender
- Development processes and programmes from women's perspective

4. Problems and issues related to women in India

- Child Marriage
- Female Foeticide, infanticide
- Female mortality
- Discrimination in nutrition and health care
- Socialization of girl child

- Dowry
- Violence
- Women's identity
- Educational opportunities and sex-based education
- Employment
- Women in politics
- Legal status of women

References

- Roy, R. (ed.) (2009). Women Education and Development: Perspectives, Issues and Concerns. Shipra Publication.
- John, M.E. (2008). Women Studies in India: A Reader. Penguin India.
- Desai, N. (1988). A decade of Women's Movement in India. Bombay: Himalaya.
- Antony, M.J. (1985). Women's Rights. New Delhi: Dialogue

Early Childhood Care and Education

Paper code: DPH788

L-T-P-C

1-1-0-2

1. Principles of Early Childhood Care and Education

- Importance, need and scope of ECCE
- Objectives of ECCE
- Types of preschools/programmes: Play centres, day care, Montessori, Kindergarten, Balwadi, Anganwadi etc.
- Concepts of formal, non-formal and play way methods

2. Historical Trends

Contribution of the following thinkers to the development of ECCE (their principles, applications and limitations) in the context of ECCE

- Pestalozzi, Rousseau, Froebel, Maria Montessori, John Dewey, Gijubhai Badheka, Tarabhai Modak, M.K. Gandhi, Rabindranath Tagore

3. ECCE in India

Pre independence period, Post-Independence- Kothari Commission, contribution of the five year plans to ECCE

4. Contribution of the following agencies/programmes to ECCE in India

ICCW, IAPF, NCERT, ICDS, UNICEF, NCTE, Mobile Creche etc.

5. Organisation of Pre-school centres

- Concept of organisation and administration of early childhood centres
- Administrative set up and functions of personnel working at different levels
- Building and equipment: Location and site, arrangement of rooms, different types and size of rooms, playground, storage facilities, selection of different types of outdoor and indoor equipment, maintenance and display of equipment and material

- Staff/ Personnel service conditions and role: Role and responsibilities, essential qualities of a care giver/ teacher, other personnel
- Record and Report: Types, aim and purpose/ need, general characteristics e.g. anecdotal, cumulative, sample work, medical etc.

6. Programme Planning

Planning: Setting goals and objectives of plans-long term, short term, weekly and daily planning, routine and schedules

7. Activities of ECCE

- Language Arts: Goals of language, types of listening and activities to promote listening various activities
- Art and Craft Activities(Creative Activities of Expression): Types of activities-chalk, crayon, paints, paper work and best out of waste
- Music: Songs, objectives of music education
- Mathematics: Goals of mathematical learning, developmental concepts at different stages
- Science: Thinking, concept formation
- Social studies: Goals of Social studies, field trips, of fostering good self-concept and respect for others.

References

- Brewer, J.A. (1998). Introduction to early childhood education. Boston: Allyn and Bacon
- Day Barbara (1983).Early Childhood Education. New York: Macmillan.
- Kaul, V. (1997).Early Childhood education programme. New Delhi: NCERT.
- Mohanti and Mohanti (1996).Early Childhood Care and Education. New Delhi: Deep and Deep Publication.
- Pankajam, G. (1994). Preschool Education. Ambala: India Publication.

Development Communication**Paper code: DPH789****L-T-P-C****1-1-0-2**

1. Communication technologies in extension
 - Communication system
 - Media system: trends and techniques
 - Advertising
 - Computer graphic designing
2. Development communication
 - Basic Concept: Development
 - Basic Concept: Development Communication
 - Media in Development Communication
3. Development journalism
 - Development journalism: growth, nature, scope, significance
 - Development journalism: perspective and approaches
 - Development journalism in print media
 - Development journalism in radio and TV
 - Video for development
 - Cyber journalism
4. Scientific writing
 - Scientific writing as a means of communication
 - How to formulate outlines
 - Drafting titles, sub-titles, tables, illustrations
 - The writing process
 - Parts of dissertation/research report/ article
 - Writing for grants

References:

- a. Adhikari. M.M. (2015): *Communication in Extension Education*, Astral Publication
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Media Development
Paper code: DPH790

L-T-P-C
1-1-0-2

1. Media planning and social advertising
 - Social marketing and advertising
 - Media planning for social advertising & marketing
 - Issues in social marketing and advertising
 - Media in social marketing and advertising: global and Indian perspective
 - Trends in social advertising: global & Indian scenario
2. Media production
 - Theories and models of mass communication
 - Role media in communication process
 - Various types of media for communication
 - Various constraints in the use of media
 - Criteria in selection and use of various media
3. Management of human service organisation
 - Concept of service organization
 - Management of service organization
 - Organizational structure of human service organization
 - Organizations working for the service of various group
 - Assessment of human service organizations
 - Concept of volunteerism
4. Research methods in extension and communication
 - Development of indicators
 - Social programme evaluation
 - Rapid and participatory appraisals
 - Development scales for measuring qualitative traits
 - Research reporting

5. Media research and evaluation

- Media research: need, rationale, scope, approaches
- Communication research
- Evaluation research

6. Scientific writing

References:

- a. Ray and Mondal (2014): Research Methods in Social Sciences and Extension Education, Kalyani Publishers
- b. Baraon and Sissor (2010): Advertising Media Planning, McGraw-Hill Education
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- d. Kindem and Musburger (2015): Introduction to Media Production: The Path to Digital Media Production, Routledge Publication.
- e. Dwyer. Judith (2004): Project Management in Health and Community Services, Routledge Publication.
- f. Wimmer. R. D. (2015): Mass Media Research: An Introduction, Cengage Learning India Private Limited.
- g. Jensen. K. B. (2011): A Handbook of Media and Communication Research: Qualitative and Quantitative Methodologies, Routledge Publication.
- h. Mugah. J. (2016): Essentials of Scientific Writing, Authorhouse Publication.
- i. Thomas. C. G. (2018): Research Methodology and Scientific Writing, Ane Books Pvt. Ltd.
- j. Alley. M. (1998): The Craft of Scientific Writing, Spriger.

Human Resources Management and Development

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L-T-P-C
1-1-0-2

1. Communication technology

- Concept of communication, scope of communication, communication process, approaches to communication
- Different Media, their characteristics and use
- Use of video projector, slide/ film strip projector computers
- Introduction to new communication technologies
- Preparation of graphics for research reports/ seminars/ other presentations
- Designing-leaflets/pamphlets/booklets/cover pages/posters
- Presentations using power points

2. Environment management

- Fundamentals of environment
- Eco-system- Earth, Man and Environment
- Population and Environment
- Land and water recourse of the earth
- Factors affecting changes in ecosystem and environment (social, economic, cultural and geographic)
- Population and environment with reference to Air, water, soil, noise
- Environment and public health
- Waste management
- Environment control measurement
- Role of local municipal authority, government and non-government agencies in promoting better health environment

3. Human resources development

- Manpower planning
- Setting Manpower standard
- Man power forecasting for management staff
- Skilled labour
- Integrated budget for man power planning
- System and analysis approach to manpower management
- Controlling manpower costs
- Quantitative and qualitative approaches to manpower economy
- Auditing of human resource for optimum utilisation and organisational profitability growth and productivity.

4. Current trends in resource management

- Socio-economic environment impact on families and organisations
- Consumer issues-foreign direct investment privatisation
- Equipment design-standards-quality control
- Environmental issues-women and environment
- Fuel Technology-New Thrusts
- Quality Management
- Entrepreneurship Management
- Human Resource Planning and Audit

References

- a. Grant, A.E. (2014). Communication Technology Update and Fundamentals: 16th Edition. Routledge
- b. Krishnaveni, R. (2008). Human Resource Development: A Researcher's Perspective. Excel Books India.
- c. Singh, S.R. (2008). Human Resource Development. Atlantic Publishers.
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Consumer Studies
Paper code: DPH792

L-T-P-C
1-1-0-2

1. Financial management

- Socio-economic environment
- Financial Planning and Implementation
- Record keeping and Accounting
- Financing of enterprise/consumer durables
- Tax Planning
- Savings and Investment
- Impact of globalisation and foreign direct investment on business opportunities in India
- Income and property rights-Wills, Trusts and Legal Aspects
- Economic Insecurity
- Project work/research in financial management

2. Consumer economics

- Consumer and the Indian economic environment
- Economic system
- Markets and Marketing
- Theories of Consumer Behaviour
- Consumer Buying habits and buying motives
- Business cycle
- Markets and Prices
- Consumer Credit
- Channels of Distribution
- Consumer Decision making process
- Consumer and Institutional Finance

3. Consumer information and redressal

- Consumer movement
- Consumer protection
- Consumer information
- Consumer redressal
- Alternative redressal mechanism for consumer grievances
- Project and research in consumer affairs

References

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- d. Jacobson, A.R., Malouf, C.A. and Lowe, R.E. (2008). Consumer Education and Economics. McGraw Hill education
- e. Paul, M.C. (2015). Consumer Redressal System and Consumer Protection in India. Kalpaz Publications.
- f. Schiffman, L.G., Wisenblit, J. and Kumar, R.S. (2015). Consumer Behavior. Pearson Education India.