Guideline for paper setting for Ph. D entrance Test

1) 20 marks of weightage should be given to Research methods, statistics, computer applications and Scientific writing.

2) 80 marks of weightage should be given to the rest of the subjects.

Note: Please try to give equal weightage to all subjects.

M.Sc. HOME SCIENCE

General Home Science

(Syllabus format implemented from: June-2005)

Semester-I (General Home Science)

<table>
<thead>
<tr>
<th>Paper No.</th>
<th>Subject</th>
<th>Theory Credits</th>
<th>Practical Credits</th>
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<tr>
<td>1</td>
<td>Research Methods</td>
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<td>2</td>
<td>Extension Management and Media Production</td>
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<td>3</td>
<td>Clinical and Therapeutic Nutrition</td>
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<td>Child and Human Rights</td>
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<td>5</td>
<td>A Entrepreneurship Management</td>
<td>2</td>
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<td></td>
<td>B Textile Design</td>
<td>-</td>
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Semester-II (General Home Science)

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<tr>
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<td>Statistics and Computer Application</td>
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<td>Apparel Design and Construction</td>
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<td>Maternal and Child Nutrition</td>
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<td>9</td>
<td>Curriculum for Early Years</td>
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<td>10</td>
<td>Advertising and Marketing</td>
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**Semester – III (General Home Science)**

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<td>Development Communication</td>
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<td>13</td>
<td>Nutrition for Health and Fitness</td>
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<td>14</td>
<td>Advance Studies in Human Development</td>
<td>2</td>
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<td>15</td>
<td>Housing for Family Living</td>
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**Semester – IV (General Home Science)**

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<td>Environment Management</td>
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<tr>
<td>17</td>
<td>Communication Technologies in Extension</td>
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EVALUATION

- The seven grade point scale starting from 'o' to 'F' will be formed for evaluation of theories and Practicals.
- The student will be required to obtain at least 'c' grade (i.e. minimum of 2-6 grade point) in individual theories and practicals for passing.
- Before getting the final average grade point (AGP). The student will have to clear all theory and practical subjects wherein the student has scored less than 2.6 grade point.
- For calculating the semester grade point, the average of grade of each theory subject and each practical subject will be considered. The final semester grade will be given on the basis of obtained grade points as per the scale.
- For calculating the final grade point at the end of four semesters, the average of semester grade points will be considered. The final grade will be given on the basis of obtained final grade point as per the scale.
- The grade point scale is as follows:
<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Grade</th>
<th>Scale</th>
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<tbody>
<tr>
<td>1</td>
<td>O-Outstanding</td>
<td>5.6 – 6.0</td>
</tr>
<tr>
<td>2</td>
<td>A-Very Good</td>
<td>4.5 – 5.5</td>
</tr>
<tr>
<td>3</td>
<td>B-Good</td>
<td>3.6 – 4.5</td>
</tr>
<tr>
<td>4</td>
<td>C-Average</td>
<td>2.6 – 3.5</td>
</tr>
<tr>
<td>5</td>
<td>D-Fair</td>
<td>2.6 – 2.5</td>
</tr>
<tr>
<td>6</td>
<td>E-Poor</td>
<td>0.5 – 1.5</td>
</tr>
<tr>
<td>7</td>
<td>F-Very poor</td>
<td>0.0 – 0.5</td>
</tr>
</tbody>
</table>

- For calculating average percentage the average grade point should be multiplied by 16.67.
- Dissertation must be in English Language only.
Objectives

- To understand the significance of statistics and research methodology in Home Science research
- To understand the types, tools and methods of research and develop the ability to construct data gathering instruments appropriate to the research design.
- To understand and apply the appropriate statistical techniques for the measurement scale and design.

Contents:

1. Science, Scientific Methods, Scientific approach
2. Role of Statistics and research in Home Science discipline.
   Objectives of research: Explanation, control and prediction.
3. Types of Research: Historical, descriptive, experimental, case study, social research, participatory research.
4. Definition and Identification of a Research Problem
   - Selection of research problem
   - Justification
   - Theory, hypothesis, basic assumptions, limitations and delimitations of the problem.
5. Types of variables
6. Theory of probability
   - Population and sample
• Probability sampling: simple random, systematic random sampling, two stage and multi stage sampling, cluster sampling

• Non-probability sampling: Purposive, quota and volunteer sampling / snowball sampling.

7. **Basic Principles of Research Design**

• Purposes of research design: Fundamental, applied and action, exploratory and descriptive, experimental, survey and case study, ex-post facto.

• Longitudinal and cross sectional, co-relational.

8. **Data Gathering Instruments:**

• Observation, questionnaire, interview, scaling methods, case study, home visits, reliability and validity of measuring instruments.

**References:**


Objectives

To enable students to:

- Understand the concepts and process of management.
- Realize the importance of management for achieving organizational goals.
- Apply the principles of management to the management of extension organizations / services.

Contents

1. Concept of Extension Management
   - Definition, nature and process and need
   - Models and principles of extension management

2. Steps in Extension Management:
   - Co-ordination – meaning, objectives, linkage mechanisms – involvement of organizations at local level – non-profit & profit making organizations.
- Controlling – meaning and process of control – management Control Techniques – budgetary and non-budgetary control – Modern techniques – PERT, CPM, requirements for effective control system.
- Monitoring and evaluation – meaning, purpose and differences. Types of evaluation, steps in evaluation, efficiency cum performance audit, reporting.

3. **Theories, types and Role of Media**
   - Theories and models of mass communication.
   - Role of 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

Practicals:

Operations of various audiovisual aids
   - OHP, Slide projector, Film projector, , Epidioscope,Tape recorder, Video recorder, Screen.

Preparation of visual /Non-projected materials
   - Booklets, Pamphlets, Leaflet, Invitation, Posters, Manuals, Cover pages for text and other books.

Projected materials
   - A-Photography; its basic principles
   - Preplanning scripting, shooting, developing, mounting, recording of commentary or dialogue, synchronization of frame with recording.
B--- Video films

- Essential preliminaries- preplanning
- Procedure of –from idea to shooting script
- Editing procedures
- Optical effects, music titles and other accessories to be added.

References:


Objectives:
This Course will enable students to:

- Understand the etiology, Physiologic and Metabolic Anomalies of acute and Chronic diseases and patient needs.
- Know the effect of the various diseases on nutritional status and nutritional and dietary requirements.
- Be able to recommend and provide appropriate nutritional care for prevention / and treatment of the various diseases.

Contents
1. Obtaining medical & dietary history of patients.
3. Etiopathophysiology, metabolic and clinical aberrations, complications, prevention and recent advances in the medical nutritional management of:
   - Weight imbalances
   - Cardio vascular disorders
   - Diabetes mellitus and other metabolic disorders.
   - GI Tract Disorders
   - Liver and gall bladder, Pancreatic disorders
   - Renal disorders
   - Stress and truma
   - Cancer
   - Infection AIDS
   - Respiratory problems
Practicals

1. Market survey of commercial nutritional supplements and nutritional support substrates.

2. Interpretation of patient data and diagnostic tests and drawing up of patient diet prescription, using a case study approach. Follow-up acceptability of diet prescription compliance; discharge diet, plan for cardiovascular disease diabetes, Liver, Renal diseases.

3. Preparation of diet counseling aids for common disorders.

4. Planning and preparation of diets for patients with common multiple disorders and complications and discharge diet plans.

References:


**Journal and Other References Series :**

13. Nutrition Update Series
14. World review of nutrition and dietetics.
15. Journal of the American Dietic Association
17. European journal of Clinical Nutrition
18. Nutritional reviews.
Objectives

- To develop awareness and perspective of Human Rights as a professional in the field of Human Development.
- To develop sensitivity to Human Rights with specific reference to children's rights.
- To gain knowledge about Charter on Human and Children's rights.
- To work with women and children to create awareness about their rights and to guide them to access their rights.

Contents

1. **Definition and Evolution of Rights**
   - Human rights
   - Child rights
   - Women's rights

2. **Status of Indian Children and their rights**
   - Gender disparities (infanticide, foeticide, girl child).
   - Children in difficult circumstances (Children of prostitutes, child - prostitutes, Child labour, street children, refugee children and child victims of war).
   - Children with special needs.

3. **Status of Women and their Rights**
   - Status of women in India.
   - Women and human rights
   - Forms of violation of women's rights
• Violence against women in home, work places and society
• Sexual harassment, rape
• Crime against women
• Political discrimination

5. Human Rights
   - Moral rights
   - Legal rights
   - Civil and political rights

6. Advocacy for Human rights.

References

4. D'Souza, C. and Menon, J. Understanding Human Rights (Series 1-4) Bombay: Research and Documentation Centre, St. Pius College.


25. Manav Adhikar and Sanyukta Rastra Sangh, Satis Chaturvedi
ENTREPRENEURSHIP MANAGEMENT

Objectives

- To provide conceptual inputs regarding entrepreneurship management.
- To sensitize and motivate the students towards entrepreneurship management.
- To orient and impart knowledge towards identifying and implementing entrepreneurship opportunities.
- To develop management skills for entrepreneurship management.

Contents:

1. Conceptual Framework
   - Concept, need and process in entrepreneurship development.
   - Role of enterprise in national and global economy.
   - Types of enterprise – Merits and Demerits

2. The Entrepreneur
   - Entrepreneurial motivation – dynamics of meaning and motivation.
   - Entrepreneurial competency – Concepts.
   - Developing Entrepreneurial competencies – requirements and understanding the process of Entrepreneurship development, self awareness, interpersonal skills, creativity, assertiveness, achievement, factors affecting Entrepreneur's role

3. Launching and organizing an enterprise:
   - Environment scanning – information, sources, schemes of assistance, problems.
   - Enterprise selection, market assessment, enterprise feasibility study, SWOT Analysis.
   - Resource mobilization – finance, technology, raw material, site and manpower.
- Costing and marketing management and quality control.
- Feedback, monitoring and evaluation.

4. Project work – Planning, resource mobilization and implementation.

5. Government policies and Schemes for enterprise development
   Institutional support in enterprise development and management

References


Paper- 5B
TEXTILE DESIGN (STRUCTURES)

Objectives

- To develop awareness and appreciation of art & aesthetics in textiles
- To impart creative and technical skills for designing textiles with special emphasis on structural design.

Practical

1. Design Analysis
   - Structural and applied design variation in fiber, yarn and fabric construction, embroidery, dyeing, printing and finishes
   - Principles of design – harmony, balance, proportion, rhythm and emphasis
   - Elements of design – line and form, colour and texture
2. Sources of inspiration for basic sketching and painting: nature, religion and mythology, arts and crafts, architecture.
3. Process of designing
   - Motif development – geometrical, simplified, naturalized, stylized, abstract and ornamental
   - Big and small motifs – enlargement and reduction, growth of a motif
   - Colour consideration – colour harmonies and colour ways
4. Creation of patterns and designs
   - Combining motifs a) big and small and b) different sources
   - Placement and repeats for all over patterns.
5. Introduction to related computer software
References

Objectives

• To understand the role of statistics and computer applications in research

• To apply statistical techniques to research data for analysing and interpreting data meaningfully.

Note: Students should be given hands on experiences to use appropriate software packages for selected statistical analysis.

Contents


2. Frequency distribution, histogram, frequency, polygons, ogive.

3. Binomial distribution

4. Normal distribution- Use of normal probability tables

5. Parameteric, non-parametric tests.

6. Testing of hypothesis, Type I and II errors. Levels of significance

7. Chi-square test. Goodness of fit independence of attributes 2 x 2 and r x c contingency tables.

8. Application of student 't' test for small samples. Difference in proportion for means and difference in means.

9. Corelation, coefficient of correlation, rank correlation
References

2. Edwards: Experimental Design in Psychological Research.
4. SPSS / PC for the IOM PC / XT, SPSS Inc.
Paper- 7

APPAREL DESIGN AND CONSTRUCTION

Objectives

- To impart an in-depth knowledge of style reading, pattern making and garment construction technique.
- To development and understand the principles of pattern making through flat pattern and drapping

Content

Theory

1. Detailed study of industrial machines and equipment used for
   - Cutting
   - Sewing
   - Finishing
   - Embelishment

2. Study the interrelationship of needles, thread, stitch length and fabric

3. Methods of pattern making
   - Drafting
   - Flat pattern
   - Draping

4. Developing paper pattern
   - Understanding the commercial paper pattern
   - Layouts on different fabrics, width and types

5. Buying criteria for
   - Knits, silks, denim and other special fabrics
   - Ready made garments
Practicals

1. Designing through flat pattern – Dart manipulation
2. Development of variation in sleeves
   - Sleeves and bodice combinations
3. Necklines and facings
   - Scoped necklines
   - Built-up necklines
   - Cowl necklines
4. Plackets
   - Center button closing
   - Asymmetric closing
   - Double breasted
5. Development of paper pattern
6. Fashion sketching
7. Preparation of Garment any one.

References

1. Armstrong, Pattern making for / fashion design
2. Gioello and Berke : Figure type range, Fairchild publication, New York.
8. Natalie Bray : Dress Fitting Published by Blackwell Science Ltd.,
MATERNAL AND CHILD NUTRITION

Objectives

This course is designed to enable the students to:

• Understand physiological changes in pregnancy and lactation.
• Get acquainted with growth and developmental changes from conception till adolescence.
• Understand the inter-relationship between nutrition and growth and development during life cycle.

Contents

1. Importance of Maternal Nutrition :
   - Importance of nutrition prior to and during pregnancy.
   - Pre-requisites for successful outcome. effect of undernutrition of mother and child including pregnancy outcome and Material and Child Health
   - Short and Long term.
   - Physiology and endocrinology of pregnancy and embrynic and fetal growth and development.
   - Nutritional requirements during pregnancy
   - Adolescent Pregnancy
   - Pregnancy and AIDS
   - Pregnancy and TB
   - Intra-Uterine growth retardation
   - Complications of pregnancy and management and importance of antenatal care.
   - Congenital malformation, fetal alcohol syndrome and gestational diabetes mellitus.
2. Lactation
   - Development of mammary tissue and role of hormones
   - Physiology and endocrinology of lactation – Synthesis of milk components, let down reflex, role of hormones, lactation amenorrhea, effects of breast feeding on material health.
   - Human milk composition and factors affecting breastfeeding and fertility.
   - Management of lactation – Prenatal breastfeeding skill education. Rooming in, Problems – sore nipples, engorged breast, inverted nipples etc.
   - Exclusive breastfeeding.

3. Growth and development during infancy, childhood

References
2. International Child Health : A Digest of Current Information.

10. ACC / SCN Reports.


OBJECTIVES

- To realise the importance of early years and why childhood matters.
- To understand the need for curriculum planning in early years and developing understanding of ECCE curriculum models and approaches.
- To develop understanding of current trends, issues, researches theories and practices of ECCE programmes.
- To understand theories of play, value of play and its implication for ECCE programmes.
- To enable students to:
  - Plan programmes for various ECCE setting and implement the same.
  - Supervise participants in ECCE laboratory settings,
  - Monitor and evaluate different ECCE programmes.

Contents

1. Early Childhood matters
   - The need and importance of Early Child Development (ECD) and Early Childhood Care and Education(ECCE)
   - Determinants of Child Survival and Development
   - Ensuring quality and effectiveness in ECD programmes.
   - Provision of equity and access to programmes.
   - Diversity in programme conceptualization, training and implementation.

2. A. Contribution of Indian Educators and its implications for Programme Planning in Indian Context
   - Christian Missionaries, Arundales
- Indian innovations of Western Theories: Gijubhai Badheka, Tarabai Modak.

B. ECCE curriculum and intervention models and innovative programmes and approaches across countries.

C. Programmes and approaches be studied with reference to
   - Theoretical concepts
   - Programme content
   - Learning environment
   - Role of teacher
   - Role of Learner and parents

3. Role of parents and community in Early Child Development (ECD) Programmes
   - Developing sensitivity to cultures and traditions of community
   - Methods and strategies for parent and community
   - Reasons for involvement and need assessment
   - Effective use of involvement to monitor and enhance programme quality

4. Understanding Importance and value of play. Theories of play and their implications for planning ECCE programmes.

5. Planning ECCE Programmes

6. Issues and concerns related to ECCE/ECD Programme
   - Coverage of populations, reaching the unreached
   - Gender equality and equity
   - Quality and sustainability
   - Training of personnel
   - Accreditation

7. The need and role of advocacy for quality and ECCE programmes
   - Consultancy and advocacy among ECD professionals
- Advocacy role with NGOs Government institutions, national and International Organization / agencies, Policy Planners and media

**Practical**

1. Observations in various ECCE setting e.g. day care, pre-schools, primary schools, ECCE centres, anganwadis etc.
2. Planning programmes for various ECCE setting
3. Implementing planning programmes in specific settings.
4. Supervising, monitoring and evaluating ECCE programmes in different settings.

**References**


37. Balvadi And Sanchalan

38. Shishu Shiksha(in hindi)

39. Balmanovignan, Bhai Yogendrajit
OBJECTIVES

• To become aware of different market organizations in our economy.
• To understand the different marketing functions and the distribution system in our economy.
• To familiarize with the marketing strategies and market research.
• To understand the role of advertising in sales promotion.

Contents

1. Market Economy
   - Markets, marketing, marketing functions
   - Marketing environment, Marketing Research, market segmentation.

2. Product development and forecasting
   - Developing, testing and launching new products
   - Idea generation, screening and business analysis
   - Understanding market demand and consumer adoption process.
   - Labeling and packing.
   - Stages in product life cycles.

3. Pricing practices and consumer interest pricing.

4. Advertising and Sales Promotion.
   - Advertising objectives, functions, benefits
   - Advertising budget and costs of sales promotion
- Types of advertising
- Evaluating of advertising effectiveness

5. Personal selling and sales management.
   - Characteristics and importance
   - Creative selling process.
   - Organising sales force, training personnel
   - Motivation, evaluation and control of sales force.

6. Service marketing
   - Marketing strategies
   - Maintaining quality in services.

References


Objectives

- To be able to appreciate and understand importance of writing scientifically.
- To develop competence in writing and abstracting skills.

Contents

1. Scientific writing as a means of communication
   - Different forms of scientific writing.
     - Articles in journals, Research notes and reports, Review articles, Monographs,
     - Dissertations, Bibliographies, Book chapters and articles.

2. How to formulate outlines
   - The reasons for preparing outlines:
     - as a guide for plan of writing
     - as skeleton for the manuscript
   - Kinds of outline
     - topic outlines
     - conceptual outlines
     - Sentence outlines
     - Combination of topic and sentence outlines.

3. Drafting titles, Sub titles, tables, illustrations
   - Tables as systematic means of presenting data in rows and columns and lucid way of indicating relationships and results.
   - Formatting tables: Title, Body stab, Stab Column, Column Head, Spanner Head, Box Head.
4. The Writing process
- Getting started
- Use outline as a starting device
- Drafting
- Reflecting, re-reading
  • Checking organization
  • Checking headings
  • Checking content
  • Checking clarity
  • Checking grammar
- Brevity and precision in writing
- Drafting and re-drafting based on critical evaluation

5. Parts of dissertation / research report / article
- Introduction
- Review of literature
- Methods
- Results and discussion
- Summary and abstract
- References

- Ask questions related to: content, continuity, clarity, validity internal consistency and objectivity during writing each of the above parts.

6. Writing for Grants
- The question to be addressed
- Rationale and importance of the question being addressed
- Empirical and theoretical framework
- Presenting pilot study / data or background information
- Research proposal and time frame
- Specificity of methodology
- Organization of different phases of study
- Expected outcome of study and its implications
- Budgeting
- Available infra-structure and resources
- Executive summary.

References

Objectives

- To understand the concept of development, its indices and relationship with development communication.
- To understand the concept of development communication and its relevance to fostering development.
- To impart knowledge about the processes involved in developmental communication with special emphasis on design of communication strategy.
- To impart skill and knowledge about the relevance, potential and use of various media in development communication with due consideration to government policies and regulations.

Contents

Theory

1. Basic Concept: Development
   - Definition, Basic concept, nature, evolution, significance, functions and dysfunctions, dynamics of development.

2. Basic Concept: Development Communication
   - Definition, evolution with respect to historical and cultural perspective of development communications.
   - Nature, role and significance of development communication
   - Models of development communication
     1. Interdependent model
     2. Dependency model
     3. Basic needs model
4. New Paradigm of development
- Approaches to development communication – Diffusion and Extension approach, participatory approach
- Strategies in development communication.

3. Media in Development Communication
- Understanding the role of traditional and modern media in development communication.
- Use of folk media, puppetry, exhibitions, theatre, posters, print media (news papers, books, leaflets, IEC material), radio, television and cinema.
- Government policies and regulations on mass media in India.
- Understanding and analysis of the ongoing Govt. and non-governmental efforts in development communication.
- New avenue for development communication – literacy, women and development, human rights, environment.

Practicals:
1. Preparation of IEC materials on various topics of different target audience.
2. Dealing with various issues in development communication through the use of folk media, leaflets, newspaper stories and reports, exhibitions, computer aided technologies.
3. Project preparation on specific area in development communication.

References:
7. Journal of Communication
NUTRITION FOR HEALTH AND FITNESS

Objectives

This course will prepare the students to:

- Understand the components of health and fitness and the role of nutrition in these.
- Make nutritional, dietary and physical activity recommendations to achieve fitness and well-being.
- Develop ability to evaluate fitness and well-being.

Contents

1. **Holistic approach to the management of fitness and Health**: Energy input and output. Diet and Exercise. Effect of specific nutrients on work performance and physical fitness. Nutrition, exercise, physical fitness and health inter-relationship.


4. **Water and electrolyte balance**: Losses and their replenishment during exercise and sports events, effect of dehydration, sports drinks.
5. **Nutritional and exercise regimes for management of obesity.** Critical review of various dietary regimes for weight and fat reduction. Prevention of weight cycling.

6. **Nutrition and exercise regimes for pre and post-natal fitness.**

7. **Alternative systems for health and fitness like ayurveda, yoga, meditation, vegetarianism and traditional diets.**

**Practicals**

1. Assessment of nutritional status including Body composition.

2. Physiological parameters like heart rate and blood pressure.

3. Planning diets and formulating dietary guidelines for:
   - Fitness and health
   - Prevention of chronic degenerative disorders
   - Obesity management
   - Management of diabetes mellitus and CVD

5. Review of existing alternative diet related systems for Physical fitness and health.

**References**


**Journals**


ADVANCED STUDY IN HUMAN DEVELOPMENT

Objectives

- To undertake an advanced study of the stages in human development with special focus on stages from prenatal development to adolescence;
- To understand the principles and factors influencing human development in these stages.

Contents

1. Principles and Concept of Development
   - Principles of growth and development
   - Development tasks.
   - Basic concepts of development – maturation and learning, sensitive periods, individuals differences, nature – nature issue
   - Secular trends in growth.

2. Prenatal Development
   - Recapitulation of stages in prenatal development, genetic and environmental factors: material conditions and teratogens. Significance for genome project for understanding human development.
   - Importance of Indian practices during pregnancy.

3. Infancy: (birth – 2 years)
   - Imation, objects permanence and other cognitive accomplishments.
   - Early language development.
   - Social relationships during infancy.
4. **Early childhood (2 – 6 years)**

- Transition from infancy to childhood.
- Physical and motor development
- Play and social relationships. The emerging self.
- Language, cognitive and emotions in early years.
- Early childhood education.
- Early socialization, parenting and cultural processes.

5. **Middle Childhood (7 – 11 years)**

- Physical and motor development: changes and challenges.
- Sense of individuality and personality development.
- Cognitive, moral and language development.
- Social relationship – peers, siblings and parents.
- The experience of schooling – academic achievement.

6. **Adolescence (11-18 years)**

- Transition from childhood to sexual maturity – puberty and its consequences. Emotional changes.
- Development of formal operations – Adolescent thought. Integration of the self-issues of identity.
- Role of family, peers, community and ethnic groups.
- Moral reasoning and judgment.
- Health, sexuality, mental health, delinquency – conformity.

**References**


8 Balmanovignan Bhai Yogendrajit

9 Matrukala, balkalyan and vikash Dr Asha Jain, Dr Nilima malaiya

10 Balvikash and Parivaric Sambandh Dr Mayureshvar Patil

11 Balvikash and Parivaric Sambandh Dr Smt Arati Rajhans

12 Balvikash and Parivaric Sambandh Dr Suresh Bhatnagar

13 Vikashlakshi manovignan Part I & II
**HOUSING FOR FAMILY LIVING**

**Objectives**

To enable the students to
- Recognize the role of housing for national development
- Be aware of the housing problems in India and the measures for alleviating the problems.
- Understand and apply the principles of design in housing

**Contents**

1. **Present housing condition in India**
   - Rural and Urban
   - Cost of housing
   - Availability of building material
   - Quality of housing available
   - Quantity of housing available
   - Housing management problem

2. **Factors affecting housing**
   
   Social, Cultural, demographic, Climatic etc.

3. **Approaches to housing**
   
   Housing as an element in the socio-economic development problem

4. **Private and Public housing**
   
   Various housing schemes: Central and Local government programs
   Industrial housing.
5. **Housing Standards and Housing Legislation**
   - Building codes
   - Floor Space Index
   - Technical aspects of house design with reference to principles of planning.

6. **Residential architectural design for various life styles.**

7. **Cost of housing design**
   - Factors influencing cost, Sources of financial assistance

8. **Analysis of housing design.**
   - Analysis of plans
   - Materials and Construction techniques
   - Study of the different housing designs.

9. **Essential Services**
   - Types of Services
   - Water supply, drainage, electricity, telephone etc.

**Practicals**
1. Floor Plan Evaluation
2. Drawing house Plans for various Income Groups.
3. Study of housing conditions, building materials and Technology

**References**
7. Publication of Housing Boards, NBO, ISI, Huepo etc.
11. Avas ;Aantaric and bahya aayojan Dr Vina Gandotra at al Uni. Granth Nirman Board A’bad
12. Civil Engineering Drawing V R Pandya Atul Prakasan A’bad
13. Civil Engineering Drawing B H Shukla Popular Prakasan Surat
Semester IV

PAPER – 16

ENVIRONMENT MANAGEMENT

Objectives

- To be aware of the holistic ecological approaches to environment.
- To be aware of the environmental problems, hazards and risks
- To understand the aspects of environmental pollution and waste management.
- To be aware of the environmental policies, movements and ethics.

Contents

1. Eco-system – Earth, man and Environment
   - Ecosystems of the world
   - Forest ecology
   - Pathways in ecosystem
   - Environment implications of energy use
   - Problems of sustainability of ecosystems

2. Land and Water Resources of the Earth
   -- Land resources of the earth
   - Land use
   - Water resource of the earth

3. Pollution and Environment with reference to Air, Water, Soil, Noise
   - Sources of pollution
- Effects of pollution
- Remedies to control pollution

4. Environment and Public Health
- Environment pollution and community mean
- Water borne diseases
- Air borne diseases
- Chemical insecticides and its impact on health
- Toxic actions of metals and biological substances

5. Waste management
- Types of waste
- Method of waste management
- Water pollution and treatment of waste
- Solid waste management
- Air pollution control technology

References


PAPER – 17

COMMUNICATION TECHNOLOGIES IN EXTENSION

Objectives

- To impart knowledge and understanding of various communication systems.

- To provide a sound knowledge base for the relevance and applicability of the various media used in human communication and their complementary role towards each other.

- To enhance the versatility of the students in the selection and use of media in different socio-cultural environments.

- To provide basic knowledge of concept of advertising and use of media in advertising.

- To impart skill in preparation of various Computer Aided Media messages.

Contents

1. Communication Systems

   - Types of communication systems – concept, functions and significance.
     Interpersonal, organizational, public and mass communication.

   - Elements, characteristics and scope of mass communication.

   - Mass communication – models and theories;

   - Visual communication – elements of visual design – colour, line, form, texture and space;

   - Principles of visual design – rhythm. Harmony, proportion, balance and emphasis.

   - Visual composition and editing.
2. Media Systems: Trends and Techniques
   - Concept, scope and relevance of media in society.
   - Functions, reach and influence of media.
   - Media scene in India, issues in reaching out to target groups.
   - Contemporary issues in media – women and media, human rights and media, consumerism and media.
   - Historical background; nature characteristics, advantages and limitations and future prospects of media.
   - Traditional media; role in enhancing cultural heritage, co-existence with modern media systems and applicability in education and entertainment – puppetry, folk songs, folk theatre, fairs.
   - Print media; books, newspapers, magazines leaflets and pamphlets.
   - Electronic media-radio, television, video, computer based technologies.

3. Advertising
   - Definition, concept and role of advertising in modern marketing system and national economy.
   - Inter-relation of advertising and mass media systems.
   - Types of advertisements – commercial, non-commercial, primary demand, selective demand, classified and display advertising, comparative and co-operative advertising.
   - Techniques of preparation of effective advertisements for various media.
   - Ethics in advertising.

4. Computer Graphic Designing
   - Introduction to Basics of Computers.
   - Advantages of Digital Multimedia.
- Introduction to Graphics.
- Drawing objects, shaping, transforming, stretching, mirror and scaling, making curves, lines rectangles, circles and ellipses. Creating special effects, editing it, extruding an object and using blends.

**Practicals**

1. Designing a visual composition-book cover or Folder with the help of computers.
2. Evaluation of advertising, a newspaper story, a radio programme and a television broadcast.
3. Planning, development and evaluation of communication strategies and techniques for selected traditional, print electronic and outdoor media systems.
4. Preparing effective advertisements keeping in consideration headlines, illustration, slogan, logo, seal of approval and colour effectiveness with the help of computer.

**Reference**

ADVANCE APPAREL AND FASHION DESIGN

Objectives

- The course aims at providing in depth working knowledge of line development and enables a student to use and practice skills and knowledge already acquired, use it to market situation.

- To help develop skills in pattern making and construction.

Contents:

Theory

1. **Fitting** – factors affecting good fit, common problems encountered and remedies for fitting defects. [Upper and lower garments]

2. **Clothing for people with special needs**
   - Maternity and lactation period
   - Old age
   - Physically challenged

3. **Elements used in creating design.**
   - Concept and scope of fashion, design, classification of fashion.

4. **Composition**
   - With one element
   - With more than one element.

5. **Colour** – its sensitivity and composition in dress.

6. **Harmony** – in form of space coverage to design of dress.

7. **Components of fashion** :-
   - Silhouette
   - Details
- Colour
- Fabric
- Texture
- Seams
- Trims

8. Fashion Forecasting
9. Study of Markets and Segments
10. Design professionals.

Practicals
1. Sketching
   - Sketching of different action croquis (front, back and the side view) (computer Application)
   - Garment and garment details
   - Accessories
2. Developing a line of garments on a theme (any one of the following)
   - Casual wear
   - Sports wear
   - Cocktail wear
   - Executive wear
3. Understanding and sketching theme based on fashion forecast.
   - Sourcing of raw materials
   - Developing line, based on fabric and theme selected
   - Spec sheet study
   - Sampling
   - Garment analysis
   - Costing – construction of garments
   - Line presentation
   - Use of sale promotion material
- Designing of 1 garment for selected theme drafting and making patterns for the same, construction of any one garment.

**Reference:**

11. Natalie Bray, *Dress Fitting*, Published by Blackwell Science Ltd.
CARE OF CHILDREN WITH DISABILITIES AND ILLNESSES

Objectives

- To gain information on different impairments and illnesses that affect children.
- To be sensitive to desires and wishes of children.
- To identify and assess impairment, illnesses, disability and the child's physical and social environment.
- To plan for inclusive educational programmes for children and involving the disabled child in the process.
- To become sensitive to concerns of parents of children with disabilities and collaborate with them for children's education and development.
- To interact and relate sensitively with children with disability, accepting individual differences and enable others to do so.

CONTENTS

1. Different types of impairments and serious illness, causes and the effects on children.
   - Physical, intellectual, sensory and emotional impairments.
   - Illnesses such as juvenile diabetes, asthma
2. The philosophy of inclusion.
3. Attitudes of others in the family and community.
4. Techniques for identification and recording progress.
5. Physical, organizational and social barriers in the development of children with disabilities
   - Modification and adaptation of physical and social environment, the meaning of inclusion, enabling participation of children with disabilities in the school and community so that they have a sense of belonging as well a opportunity to become contributing members.

6. Use of assistive devices.

7. Listening to children and including their views in life at school and home.

8. Care of the child in the family, role of parents, siblings and other members.

9. The rights versus needs of the children.

10. Examples of programmes for children with disabilities, innovative projects.


**PRACTICALS**

1. Planning and working with children and parents.

2. Case study of a child with disability and illness.

3. Case study of one organization each for children with Blindness, Deaf and Dumb and mentally retarded with particular reference to its physical and social environment.


**References**


**Journals**

1. Disability and Society

2. Action Aid Disability News

3. Impairment and disability.

4. Asia Pacific Disability Rehabilitation Journal
PAPER –20

RESIDENTIAL INTERIOR SPACE DESIGN

Objectives

- To understand the factors influencing space design organization for optimum comfort and functionalism.
- To understand the application of anthropometric data in designing interior
- To evaluate ergonomically residential interior space for various activities.
- To provide adequate facility for work, relaxation, rest, comfort, privacy, care, aesthetics etc. through interior space designing.
- To study the materials along with fittings and fixtures used in residential interiors.
- To develop skills of drawing the working details and execution drawings.

Contents

1. In-depth understanding of residential interior space design from design popint of view.
2. Study of factors influencing furnishing of residential interior spaces. Their use & care.
3. Factors to be considered while designing.
   - Orientation
   - Grouping of user's area.
   - Circulation between and within user's area.
   - Light and ventilation.
   - Flexibility.
   - Privacy.
   - Roominess (Spaciousness).
   - Services.
   - Aesthetics.
- Cost.
- Basics of furniture design and types of furniture design.


5. Consideration of ergonomics in interior design.
   - Importance of ergonomics in interior design.
   - Work, worker and working environment relationships
   - Kitchen and storage as most important work area.
   - Ergonomical evaluation for health and safety of user in residential space design.
   - Study of different body postures used in different activities and its relation to fatigue.

6. Application of appropriate materials for various uses.

7. Study of various types of fixtures and fittings used in interiors, their uses, selection and care.
   - Use of timber for different purposes with their jopints
   - Types of floor
   - Various ways of operating shutters.
   - Methods of paneling and cladding to walls.
   - False ceilings – different types in various materials
   - Mezzanine and lofts.
   - Kitchen platform.
   - Residential furniture items: Sketch, form and sizes of all and details of only 6 items.
     Such as sofa, diwan, chairs, puffe, centre table, wall unit, dining table, side board, Kitchen unit, bed, wardrobe, dressing table etc.
References

13. Encyclopaedia of Interior Design.
EVALUATION

- The seven grade point scale starting from 'O' to 'F' will be formed for evaluation of theories and practicals.
- The student will be required to obtain at least 'C' grade (i.e. minimum of 2-6 grade point) in individual theories and practical for passing.
- Before getting the final average grade point (AGP). The student will have to clear all theory and practical subjects wherein the student has scored less than 2.6 grade point.
- For calculating the semester grade point, the average of grade of each theory subject and each practical subject will be considered. The final semester grade will be given on the basis of obtained grade points per the scale.
- For calculating the final grade point at the end of four semesters, the average of semester grade points will be considered. The final grade will be given on the basis of obtained final grade point as per the scale.
- The grade point scale is as follows:

<table>
<thead>
<tr>
<th>Sr.No.</th>
<th>Grade</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Excellent</td>
<td>5.6 – 6.0</td>
</tr>
<tr>
<td>2</td>
<td>Very Good</td>
<td>4.5 – 5.5</td>
</tr>
<tr>
<td>3</td>
<td>Good</td>
<td>3.6 – 4.5</td>
</tr>
<tr>
<td>4</td>
<td>Average</td>
<td>2.6 – 3.5</td>
</tr>
<tr>
<td>5</td>
<td>Fair</td>
<td>2.6 – 2.5</td>
</tr>
<tr>
<td>6</td>
<td>Poor</td>
<td>0.5 – 1.5</td>
</tr>
<tr>
<td>7</td>
<td>Very poor</td>
<td>0.0 – 0.5</td>
</tr>
</tbody>
</table>

- For calculating percentage the average grade point should be multiplied by 16.67.
- Dissertation must be in English Language only.