

# SYLLABUS

## Home Science

**M.Sc. (Previous) Examination, 2015**

**M. Sc. (Final) Examination, 2016**

**MASTER OF SCIENCE**

### GENERAL INFORMATION FOR STUDENTS

The examination for the degree of Master of Science will consist of two examinations: (i) The Previous Examination, and (ii) The Final Examination

The subject of examination shall be one of the following:

Mathematics, Statistics, Physics, Electronics, Chemistry, Zoology, Geology, Botany and Home Science.

The examination will be through theory papers/practicals. Pass marks in the previous and final examinations are 36% of the aggregate marks in all the theory papers and practicals and not less than 25% marks in an individual theory paper. A candidate is required to pass in the written and the practical examinations separately. Successful candidates will be placed in the following division on the basis of the total marks obtained in previous and final examinations taken together.

First division 60% Second division 48% and Third division 36%

No student will be permitted to register himself/herself simultaneously for more than one post-graduate course.

### ATTENDANCE

1. For all regular candidates in the faculties of Arts, Education and Social Sciences, Science, Law and Commerce the minimum attendance requirement should be that a candidate should have attended at least 75% of the lectures delivered and tutorials held taken together from the date of her/his admission.
2. The shortage of attendance up to the limits specified below may be condoned
  - i. Up to 3% of the total
    - a) Lectures delivered and tutorials held (taken together) , and
    - b) Practicals or Practicals and Sessionals subject-wise condonable by the Dean/Director/Principal on the recommendation of the Department concerned
  - ii. Up to 6% including
    - a) Above by the Syndicate on the recommendation of the Dean/Director/Principal.
  - iii. Up to further 5% attendance in all subjects/papers/practicals and sessionals (taken together) by the Vice-Chancellor in special cases, on the recommendation of the Dean/Director/Principal.
3. The N.C.C. cadets sent out to parades and camps and such students who are deputed by the University to take part in games, athletics or cultural activities may, for purpose of attendance, be treated as present for the days of their absence in connection with the aforesaid activities and that period shall be added to their total attendance subject to the maximum of 20 days.
4. Advantage of fraction while calculating the attendance, shall be given to the candidate.

Special Information for M. Sc. Home Science.

  - a. Eligibility: B.Sc. Home science
  - b. Admission : As per University rules-merit basis
  - c. M. Sc. (Previous): Five Theory papers and Four Practicals
  - d. M.Sc. (Final)
    - i. One compulsory theory paper and one Practical
    - ii. Students will have to opt one of the optional special groups as given below:
      - i. Clothing and Textile
      - ii. Foods and Nutrition
      - iii. Human Development. Each of the above groups comprises of three theory papers and two practicals
    - iii. A dissertation and Viva
  - e. Special groups will be offered on merit-cum-preference basis by the Head of the Department with equal distribution of students in each special group
  - f. A board of examiners will be formed for practical examinations. Board will comprise of one internal examiner and one external examiner

### Examination Scheme

In all the classes, the Question Paper for the examination will be divided in three parts i.e. Section – A, Section – B and Section – C

**Section – A:** will consist of 10 compulsory questions. There will be two questions from each unit and answer of each question shall be limited up to 30 words. Each question will carry 2 marks.

**Section – B:** will consist of 10 questions. Two questions from each unit and students will answer one question from each unit. Answer of each question shall be limited up to 250 words. Each question carries 7 marks.

**Section – C:** Will consist of total 5 questions. There will be one question from each unit and students will answer any 03 questions and answer of each question shall be limited up to 500 words. Each question carries 15 marks.

### **M.Sc. (Previous) Home Science TEACHING AND EXAMINATION SCHEME**

Paper	Subject	Duration of Exams.	Max. Marks	Theory Periods/week	Practical period/week
Paper I 401	Statistics and Research Methods	3	100	4	-
Paper II 402	Human Nutrition Requirements and Problems and Food Microbiology (F.N. I)	3	100	5	-
	Practical (F.N. I)	4	75	-	4
Paper II 403	Child Psychology and Issues in Early Childhood Education (H.D. I)	3	100	5	-
	Practical (H.D. I)	3	75	-	4
Paper IV 404	Historic Textiles and Sociological and Psychological Aspects of Clothing (Cl.T.)	3	100	5	-
	Practical (Cl.T)	5	75	-	4
Paper V 405	Ergonomics and Institutional Management (H.Mgt.)	3	100	5	-
	Practical (H .Mgt.)	3	75	-	4
			<b>Total</b>	<b>24</b>	<b>16</b>

Work-Load	Periods/Week	Marks
Theory	24	500
Practical	16	300
Total	40	800

### **M.Sc. (Previous) Examination PAPER – I H Sc. 401: STATISTICS AND RESEARCH METHODS**

**Pd/Wk : 4  
Marks : 100**

**Unit - 1 :** Measures of dispersion : Range, Mean deviation, S.D. quartile deviation .

Elementary Probability: Random Experiment, Sample space, Events, Classical definition, Addition and Multiplication theories and their applications. Binomial, Poisson and Normal Distribution (application, properties and the use of Normal tables)

**Unit - 2 :** Association of attributes : Class Frequencies, Consistency and Inconsistency of data, kinds of association of attributes, Coefficient of association, partial association, Correlation and Regression, correlation coefficient, rank correlation coefficient. Least square methods, fitting of regression lines, regression coefficients, coefficient of determinant.

**Unit - 3 :** Test of significance : Types of hypotheses and errors, level of significance. Critical region, one tail and two tail tests.

Large Sample Test : one sample and two sample test for population means. Test for proportion, Small Sample Tests: applications of t test for testing of hypothesis concerning single means, difference between two means, significance of correlation coefficient independence of attributes, chi square test of goodness-of-fit

**Unit - 4 :** F-Test : Test for population variance,

Analysis of variance (one way & two way classifications)

Non – parametric tests : ordinary sign test, run test, median test

- Unit - 5 :**
1. Definition and identification of a research problem, the formulation of hypothesis, statement of assumptions involved. Methodology involved and materials required, analysis and interpretation of the findings, preparation and presentation of a technical report
  2. Questionnaire and Schedule, their construction, techniques of primary data collection, scrutiny of data, accuracy of measurements, testing of a questionnaire
  3. Sampling and its importance in home science, Sampling vs. Complete enumeration, availability of frame, principal steps of a sample survey with special reference to surveys related to Home Science studies, sampling and non-sampling errors
  4. Broad classification of sampling techniques, the simple random sampling, the stratified sampling, notion of systematic one-stage and two-stage sampling procedures

#### REFERENCES

- Simpson & Kafka: Basic Statistics, Oxford & I.B.H. Publishers  
Taro Yatnmue: Sampling Theory  
Goon, Gupta & Das Gupta: Fundamental of Statistics, Vol. I & II  
Snedecor & Cochran: Statistical Methods, oxford and I.B.H. Publishers  
Shukla, M.C. R. Gulshan, S.S. : Statistics – Theory and Practice, Sultan Chand & Co.  
Gupta, S.P. : Statistics methods, Sultan Chand & Co.  
Good, C.V. and Carter. D.E. : Methods of Research – Educational, Psychological, Sociological Applications, Century Craft, New York, 1954  
Kerlinger, F.A. : Foundations of Behavioral Research, Century Craft, N.Y. 1966  
Young, P.V. & Schind, C.G. : Scientific Social Survey and Research, Prentice Hall, New Delhi, 1968  
Philips, B.S.: Social Research Strategy and Tactics  
Mussen Paul : Hand Book of Research Methods in Child Development  
Devdas R.P. & Kulandaivel : Hand Book Research Methodology, Sir Ram Krishna Mission Vidyalaya, 1971  
Agarwal, B.L. : Basic Statistics, (Third Ed.), New age introduction Publishers  
Sukhatme, P.V. & Sukhatme, B.V. : Sampling Theory of Surveys with Applications  
Murthy, M.N. : Sampling Theory and Methods, Statistical Publishing Society, Indian Statistical Institute, Calucutta

#### PAPER – II

#### H Sc 402: HUMAN NUTRITION REQUIREMENTS AND PROBLEMS AND FOOD MICROBIOLOGY

**Pd/Wk : 5**

**Marks : 100**

- Unit - 1**
1. Body Composition: Normal body composition, Changes through the life cycle, influence of nutritional status, Methods of assessing body composition
  2. Nutritional requirement and recommended dietary allowances for the entire life span (infancy to old age),
  3. Methods of estimating and critical evaluation of research findings for assessing the adequacy of the requirements of the following
    - a.) Energy
    - b.) Proteins and amino acids
    - c.) Vitamins and
    - d.) Minerals
- Unit – 2** Human Nutrition Problems: Historical background, prevalence. Etiology biochemical and clinical, manifestations. Preventive and therapeutic for the following:  
(a) Protein energy malnutrition (b) Vitamin ‘A’ deficiency (c) Iodine deficiency disorders (d) Fluorosis (e) Nutritional Anemia - Iron deficiency, Vit B<sub>12</sub> deficiency, Folate deficiency
- Unit – 3**
1. Geriatric Nutrition : The aging process and altered nutrition
  2. Nutrition and immune response
  3. Nutrition in community:
    - a) The role of public Health Nutritionist in Health Care Delivery system
    - b) Designing of Health and nutrition education programmes
    - c) Nutritional Surveillance
- Unit – 4**
1. Toxicity of heavy metals (Cd, Pb, Al and Hg)
  2. Inborn errors of metabolism: Disorders of amino acid metabolism, Phenyl Ketonuria, hyper-histidinemia, hyper- lysinemia, homo-cystinuria, hyper-valinemia, Carbohydrate Metabolism : Pentosuria, galactosaemia Lipid metabolism : Hyper chyloin icronaemia, purehyper-cholestrolaemia, mixed hyper-lipidaemia responding to vitamin therapy
- Unit – 5** Food Microbiology: Introduction to microbiology: Microorganism importance in foods: Cultivation of microorganism: Sterilization and disinfection: Microbes in foods and fermented foods and Food sanitation: Microbiology of food plant

sanitation, Personal testing, Water and Milk testing, Micro-biological criteria for food testing: Food toxicants

## REFERENCES

- Frazier : Food Microbiology,  
Sumathi Mudambi : Food Science  
R. Anathanarayan & C.H. Jayaram : Text Book microbiology  
Pike, R.L. and Brown, H.L. : Nutrition, An Integrated Approach, New York  
John Willy and Sons: Energy and Protein Requirements  
Report of Joint RAO/WHO and Expert Consultation Teach Sen. Rep, 724, WHO Geneva, 1985  
Nutrient Requirements and Recommended Dietary Allowances for Indian ICMR, 1990

## PRACTICAL

**Pd/Wk : 4**  
**Marks : 75 (25+50)**

1. Study of Stains and staining reactions-Gram staining, negative staining, Capsule and ? staining, acid fast staining
2. Study of the environment around us-air, soil, table top, skin, utensils etc.
3. Bacteriological analysis of different foods-milk, MBRT curd, vegetables, fruits, ice-cream, cereals sugar, salt, spices soft drinks, pastries and canned foods
4. Assessment of Nutritional Status:
  - Nutritional anthropometry : Recording and interpretation of weight, height and chest, head and mid arm circumference and skin fold thickness data
  - Clinical assessment : Identifying the clinical manifestation of the various deficiency diseases and excesses
  - Biochemical Assessment-Biochemical estimation to identify the deficiency diseases namely protein energy malnutrition and anemia
  - Dietary survey
5. Low cost recipes suitable for various Vulnerable Sections of Population
6. Seminar on recent advances in Nutrition/Any other

## PAPER – III

### H Sc 403: CHILD PSYCHOLOGY AND ISSUES IN EARLY CHILDHOOD EDUCATION

**Pd/Wk : 5**  
**Marks : 100**

#### Unit – I : 1. Introduction to Psychology :

- Historical Perspective
  - Emergence of Child Psychology as a Scientific discipline
  - Techniques of Child Study, Longitudinal, Cross sectional, experimental, Case Study, Interview and Observation
2. Genetic Biological Basis of development- influence on physical, physiological and intellectual characteristics and personality of children, Effect of prematurity and birth weight on the different facets of child's personality

#### Unit –2 : 1. Psychological Development:

- Infancy-Importance of early social experience, mothering attachment (Bowlby), maternal deprivation, Role of care giver and consequence of the interaction with care giver
- Per School years:  
Socialisation during pre-school years- Effect of identification and sex typing on the child's behavior, Role of family with special reference to rewards and punishment

#### 2. School age : Important influences on development of child

- a) Family    b) School    c) Peers

#### 3. Importance of School Achievement and factors influencing it

#### Unit – 3 : 1. Language Development : Role of language, process of language acquisition, Different theories of Language development (Vygotsky)

2. Cognitive Development: Development of Awareness and beginning of Intelligence, Reasoning, concept formation, perception, Cognitive activities and skills. Intelligence tests for measuring intelligence of children, Characteristics of a good test. Use and administration of test

#### 3. Emotional Development, Functions of Emotions, Theoretical perspective of Emotional development

4. Personality : Definition, Self concept, Self esteem, Factors influencing personality development

#### Unit – 4 : 1. Non-formal vs. Formal Education:

- Concept of non-formal and formal education

- Play way method
  - Psychological effects of pressures on children for academic achievements on children
2. Administration and Management of Preschools:
- Admission tests and intake policy
  - Class size and Child teacher ratio
  - Teacher's role for meeting the goals of early childhood
  - Parent involvement

**Unit – 5 : 1. Child Development Perspective:**

- Focus on all round development
- Individual needs vs Groups needs
- Neglected areas of Child Development Creativity, Language and Concept formation

2. Assessment and Monitoring in Preschools:

- Programmes
- Children

**TEXT BOOKS AND REFERENCES**

L. Alan Sroufe, Robert, G. Cooper: Child Development- Its Nature and Course, Ist Ed. 1988

Boston, Allyn & Bacon: Child Development, 1989

Peter, K. Smith & Helen Kowie : Understanding Children's Development, Smikow 30077, New York, Basil Black, 1988

Rober S. Feldman: Understanding Psychology, McGraw Hill Book co., New York, 1987

Judith, R. Harris, Rober Liebert, I: The child Development from Birth Through Adolescence, 2<sup>nd</sup> Prentice Hall, New Jersey, 1987

Michael, Lam Marc Bornstein: Development an Introduction, 2nd, Random Hall, New York, 1987

Grace, L. Craig: Human Development, 3<sup>rd</sup> ed. Prentice Hall, New Jersey, 1983

Jindel, S.K.: Intellectual Development, Mittal Publication, Dehli, 1988

Mutlidharan, N.: The systems of preschool education in India, Indian association for preschool education, 1968

Kennedy, A.W.: Psychology, prentice Hall, New jersey, 1971 Thorpe, L. Child Psychology Development (Latest), the Ronald press Co. new York

Berk. L.: Child Development, Boston Allyn & Bacon International edition, (Latest), 1994

Olds, S.W. and Papalia, D.E.: Human Development, McGraw Hill Book Co., New York, 1986

**PSYCHOLOGICAL TESTING AND HUMAN DEVELOPMENT  
PRACTICAL**

**Pd/Wk : 4**

**Marks : 75 (25+50)**

Administration, Evaluation and Interpretation of available individual tests of (one from each area):

- Intelligence
- Personality
- Projective Techniques
- Aptitude test
- Educational test (Details in file)
- Observation and recoding of sensory capacities of neonates (Report in file)
- Visits to various types of centers of early childhood care and education:
  - Nursery Schools
  - Day care centers

Report on the institutions curriculum and organizational structure & physical & human infrastructure

  - Crèches
  - Slum balwadis / anganwadis
- Preparing a case study of a child from an orphanage and recording his all round development:
- Literature review to know the changing trends of adolescent psychology from news papers, magazines, stories and novels (Term Paper)
- Exposure to reviewing films, strips and programmes on development aspects of children eg. Interactive programme on computers :
- Seminar on old age: pertaining to
  - The understanding of old age as a development
  - The problems of old age
  - Status of old persons in society
  - Agencies and programmes for old persons in India and abroad
  - Towards happiness in old age

Term and Presentation based on research finding, through exploring the journals and field work reports

## REFERENCES

- Anastasi, A.: Psychological Testing, 4<sup>th</sup> ed., Macmillan Publishing Co., Inc., New York,  
Allison Blatt & Zimmet: The Interpretation of Psychological Tests, Harper & Row Publishers,  
New York, 1986  
Freeman, F.S.: Theory and Practice of Psychological Testing, 3<sup>rd</sup> ed., Oxford and IBH Publishing  
House, New Delhi, 1962 Practical Manual of Child Development, Institution of Home  
Economics Publication

## PAPER – IV

### H.Sc. 404 : HISTORIC TEXTILES AND SOCIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF CLOTHING

Pd/Wk : 5  
Marks : 100

- Unit – I :** Origin of Clothing
- Theories of Clothing: Theory of Modesty, immodesty, protection, adornment, combined need and other theories
  - Role of clothing in psychological and personality development of human beings, self concept, personality expressed through clothing
  - Psychological effect of colour in clothes .
  - psychological effect of clothing on children
- Unit – 2 :** Sociological aspect of clothes: Fashion, fads, role of uniforms, national costumes, occupational clothes, social importance of clothes, impact of society on clothing choices, Fashion Cycle
- Conformity, mobility, Class distinction family and social influences
  - Factors influencing choice of clothes, physical, aesthetic, economic and social
- Unit = 3 :** A) Indian costumes: Historic approach from ancient period to 20<sup>th</sup> Century:
- Dress in Harappa and Mohan Jodaro
  - Dress of Aryans
  - Dress of 600 BC -320 BC (Buddhist, Jains)
  - Islamic influence
  - British period
- B) Study of regional costumes of India (Men/Women) Punjab, Himachal, Kashmir, U.P, M.P., Bengal, Tamilnadu, Rajasthan, Gujarat, and Maharashtra
- Unit – 4** a. Historical development of woven textiles origin of weaving, spinning, looms, weaves  
b. Wardrobe planning for different stages in family cycle.
- Unit – 5** a. History of Carpets. Rugs and Durries  
b. History of hand printing and dyeing  
c. Study of Indian sarees of different types

## REFERENCES

- Ahury, G.S.: Indian Costumes, Popular Prakashan, Bombay  
Bhushan Brij, J.: Costumes and Textiles of India, D.B. Taraporewala & Co. Bmobay  
Moti Chandra: Costumes, Textiles, Cosmetics and Chiffons in Ancient and Medieval India, Orient Publisher, New Delhi, 1973  
Akazi Roahan; Ancient Indian Costumes. Art Heritage, New Delhi  
Mary Shawn Rayan: The study in Human Behavior  
Flugel, J.G.: Psychology of Clothes  
Horn, H.J.: Second Skin  
Mary, Rose & Cranz: Concepts of Clothing  
Doongaji Sherie & Deshpande, R.: Basic Processes and Clothing construction  
Bane, A.: Creative Sewing  
Tate, M.I. and Glisson, D.: Family Clothing  
Lewis, D. S. Brawes: Clothing Construction and Wardrobe Planning

## PRACTICAL

### TRADITIONAL TEXTILES AND APPAREL DESIGN

Pd/Wk : 4 Marks :  
75 (25+50)

- Drawing a collection of traditional designs given on fabrics
- Sketching designs for various textures and prints to suit the figures, sizes and type of fabrics
- Adaptation by flat pattern using half scale bodice block making samples on fabric
  - Part – basic darts
  - Yokes

- Fullness
- Sleeves
- Collars
- Pockets
- Neck lines
- Focus on design details of style and rendering techniques using different medias
  - Sketching of different action croquei (front, back and side view)
  - Sketching of garments and accessories
  - Basic rendering techniques
    - Colour matching using different medias charcoal, brushes, colours and paper
    - Pattern and texture (checks, line)
- Theme rendering – Developing a line of garments based on theme and fabric selected
  - Casual wear
  - Sports wear
  - Formal (Business wear)

## **PAPER - V**

### **H.Sc. 405: ERGONOMICS AND INSTITUTIONAL MANAGEMENT**

Pd/wk : 5  
M.M. : 100

#### **Unit 1: Ergonomics**

Scope of ergonomics in Home and other occupations  
Nature of work in household and other occupation  
Interdisciplinary and applied nature of ergonomics as a field of study  
Man Machine Environment system

#### **Unit 2: Ergonomics in work place (Elbow room)**

- Anatomical Dimensions and its relation to space needs
- Postures at work and their effect on health
- Anthropometric Measurements for different postures, standing and sitting
- Work space and storage needs
- Functional design of work places, equipments and tools

#### **Unit 3: Finance**

- Financial Management in Catering Institution
  - Principles of Accounting functions
  - Financial Statement Analysis
  - Food cost control
    - Designing for profits
    - Pricing the product
- Financing of Consumer Durables/Enterprises  
Housing, Automobile, Education, Equipment and Small scale Industry
- Consumer Economics
  - Consumer Behaviors
  - Redressal Mechanism for consumer Grievances (in brief)
    - Verbal and Written complaints
    - Appeal to district, state of national commissions
    - Public service litigation
    - Media connected services

#### **Unit 4 :**

1. Introduction to Food Service Industry with historical Development (in Brief)
2. Food Service Planning
  - Layout (Kitchen, store and Institutional dinning)
  - Equipment
3. Food Service operations
4. Food Management
  - Food acceptability and sensory evaluation
  - Menu Planning
  - Quantity food production
  - Quantity and Quality control
  - Kitchen production

#### **Unit 5:**

1. Food purchasing
  - Receiving and store room management
2. Manpower and personnel
  - Staff planning and pay roll control
  - Administrative leadership
3. Management of Dinning Room

- Table Service
  - Maintenance & care of Linen and Floor coverings
  - Maintenance & care of furniture
4. Hostess training
- Table setting
  - Manners and etiquette
  - Table ware for various occasions

#### **REFERENCES**

- Malhan & Sethi: Catering Management: An Integrated Approach, 1989  
 Dessler, B.: Personal Management Modern Concept and Techniques, 1978  
 Kotshevar, L.N. & Terrek, M.E.: Food Service Planning Layout and Equipment, 1967  
 Anergy, A.C.: Modern Guide of food Service Equipment, C.B. Publishing, 1981  
 Deacon, R.E. and Fire Baugh, F.M.: Resource management, principles and applications, Allyn and Bacon, 1981  
 Dewitt, R.J. and Singh: Indian Economics, Premier Publishing Co. Bombay  
 Sundaram, K.P.M. and Versha, N.G.: Principles of Economics, Agra  
 Chakraborty, S.K.: Management by objectives- integral approach, MacMillan Co. 1980  
 Drucke, P.: Management: Task, responsibilities and practices, Allied publisher

#### **PRACTICAL**

Pd/wk : 4  
M.M. 75 (25+50)

- Visit to food service canteens, hotels, hospital, railway kitchen, restaurants, Industrial canteens and hostel catering of different class of people, Lay-out Planning-existing and Improved. (Submit the report)
- Planning in detail the Catering for various occasions, Social gathering, restaurants canteen etc.
  - Menu Planning
  - Food Purchasing
  - Setting Profits
  - Minute Management
- Table setting for different covers (Breakfast, Dinner, Tray Service)
- Theme based Party: Traditional, Festive and contemporary Decoration and menu planning
- Standardization of Recipes
- Work Analysis
  - Pathway Chart
  - Flow Process Chart
  - Operation Chart



**M.Sc. (Final) Home Science  
TEACHING AND EXAMINATION SCHEME**

Paper	Subject	Duration of Exams.	Max. Marks	Theory Periods/week	Practical period/week
Paper I 501	Communication and Extension in Home Science (Ext. Edu. I)	3	100	5	-
	Practical	3	75	-	4
<b>GROUP A : CLOTHING AND TEXTILE</b>					
Paper II 502	Textile Science Cl. T. II	3	100	5	-
Paper II 503	Advance Textiles and Fashion Design Cl. T. III	3	100	5	-
Paper IV 504	Consumer Economics and Merchandising of Textiles <u>Cl.T. IV</u>	3	75	3	-
	Practical I	5	100	-	6
	Practical II	6	100	-	6
<b>GROUP B : FOODS AND NUTRITION</b>					
Paper II 502	Advanced Nutritional Biochemistry F.N. II	3	100	5	-
Paper II 503	Clinical Nutrition and Dietary Counseling (F.N. – III)	3	100	5	-
Paper IV 504	Advance Nutrition (F.N. IV)	3	75	3	-
	Practical I	5	100	-	6
	Practical II	6	100	-	6
<b>GROUP C : HUMAN DEVELOPMENT</b>					
Paper II 502	Advanced Child Development and Family Relations H.D II	3	100	5	-
Paper II 503	Children With Special Needs and Guidance and Counseling (HD – III)	3	100	5	-
Paper IV 504	Theories of Human Development and Current Issues Related to Women (H.D. – IV)	3	75	3	-
	Practical I	3	100	-	6
	Practical II	3	100	-	6
Common for group A, B and C					
	Dissertation/ project work	-	100	-	-
	Viva-Voce	-	50	-	-

Work-Load	Periods/Week	Marks
Theory	18	375
Practical	16	275
Dissertation/ project work	6	100
Viva-Voce	-	50
<b>Total</b>	<b>40</b>	<b>800</b>

**Note:** Dissertation/ project work to be assessed by both external expert & internal Supervisor. For viva-voice a committee will formed comprising of Head of the Department, Supervisor, a member form each area of Home Science/Specialization and an External expert.

**M.Sc. Final Examination**

**PAPER- I**

**H.Sc. 501 - COMMUNICATION AND EXTENSION IN HOME SCIENCE**

Pd/Wk : 5

Marks : 100

Objectives

- To develop an understanding regarding the communication process.

- To develop an understanding regarding various types of media and their role in Home Science Extension.
- To develop skill in producing and using selected media in Extension work.

Unit 1 : Introduction to communication

- Origin, Concept, definition, nature of communication
- Models of communication
- Levels of communication
- Effective communication- Frame of reference, perception, fidelity , communication gap, time lag, empathy, homophily, heterophily
- Functions of communication

Unit 2 : Communication media and Technology

- Classification of media
- Selection of appropriate media
- Production and use of selected media in Home Science
- Writing scripts for radio talk, television talk, puppet play, street play
- Writing for newspapers, magazine

Unit 3 : Developmental communication

- Problems in Development and grass root participation (need and participation)
- Development communication strategies for grass root mobilization
- Importance of leadership in developmental communication.
- Understanding the role of traditional and modern media in developmental communication
- Participatory approach in developmental communication

Unit -4 Communication process

- Elements of communication.
- Principle of effective communication
- Channels of communication
- Problems of communication (related to the communicator, message receiver and other factors)

Unit 5 : Appropriate technology for women

- Role and status of women in rural development
- Approach and methods of socio economic analysis- PRA and RRA
- Need of appropriate technology for women
- Transfer of technology and factors affecting TOT
- TOT process and improvement

**REFERENCES**

- Benjamin James : Communication Concepts and Contexts, 1986  
 Berlo, D.K.: The Process of Communicating –An Introduction to Theory and Practical,1960, New York, Henry Holt and Company  
 Chopra,K., Kaukodi, G.K., & Murty, M.N.: Participatory Development, 1990. Sagar Publication  
 Dhama, O.P. & Bhatnagar, O.P. : Education and Communication for Development, 1987  
 Dhama, O.P. & Bhatnagar, O.P. : Communication for Development, 1991  
 Kumar Keval J.: Mass Communication in India: A Comprehensive and Critical Look at the Mass Media in India, 1987  
 Ray, G.L., Extension Communication and management, 1999, Nays Prakashan, Calcutta  
 Tiwari, LP : Communication, Technology and Development, 1987  
 Indian Ministry of Information & Broad Casting : Mass Media in India, 1985

**PRACTICAL**

Pd/wk : 4  
 Marks : 75 (25+50)

- Writing script for one of the media referred in theory
- Production of selected media in Home Science Extension and communication
- Pre testing of the selected media
- Use of Selected media in the field
- Developing skill in any of the folk media
- News and report writing of programme for farm/ slum women

**GROUP – A (CLOTHING & TEXTILE)**

**PAPER - II**

**H.Sc. 502 : TEXTILE SCIENCE (C.T. II)**

Pd/Wk : 5  
 Marks : 100

**Unit I : Recent development in fiber:**

- Acrylic and Modacrylic- fibers
- Olefin fibers

- Elastometric fiber, Rubber, Spandex
- Glass
- Metallic
- Mixture and blended fabrics, Reason for mixing and blending
- Qualitative and quantitative analysis of blend and pure fabrics

**Unit 2 : Fabric Testing:**

- Fabric constructing analysis- weave, ends, picks, count, weight, crimp, thickness determination etc.
- Porosity, air permeability and thermal conductivity of fabric
- Dimensional stability of fabric-Shrinkage, laundering shrinkage, thermal shrinkage and heat setting

**Unit 3 : Mechanical properties of fabric**

- Breaking, bursting and tearing strength of fabrics, their relation of fabric and yarn construction parameters
- Method of measurement of above
- Apparel fabric properties, their measurement and advantages
- Crease recovery
- Bending stiffness and recovery
- Drapability of fabric
- Feel texture and handle of fabrics
- Serviceability of fabrics Service wear and abrasion method of assessment

**Unit 4 : Classification of dyes:**

- Brief introduction about chemical constitution of dyes
- Methods of application and suitability of various dyes to different fibers and their blends

**Unit 5 : Finishing technology:**

- Resin finishes- application and mechanism
- Organdie finish
- Permanent set (Durable press) finish
- Stone-wash finish
- Soil and oil release finish

**REFERENCES**

Booth, J.E.: Principles of Textile Testing  
 Skinkle: Textile Testing  
 Garner, W.: Textile Laboratory Manual  
 Garner & Hamby; Hand book of Textile Testing and Quality Control  
 Carter, H.F.: Testing Yarns and Fabrics  
 Marsh, J.T.: Introduction to Textile Finishing  
 Trotman, E.R.: Bleaching Dyeing and Chemical Technology of fibers  
 Shenai: Technology of Textile Processing Peters: Textile Chemistry  
 Wilhams, B.I.: Practical Textile Chemistry

**PRACTICAL  
 TEXTILE SCIENCE**

Pd/wk : 4  
 Marks : 75 (25+50)

- Physical testing of textiles using appropriate standardized procedures
  - Yarn – Strength, Count
  - Fabric - Count, Weight, Drapability, Crease recovery, Weave identification, Dimensional stability
- Chemical testing-Fiber identification, Binary fabrics-Blend composition
- Dyeing
  - Colorfastness testing
  - Yarn dyeing-Direct, reactive (hot and cold)
  - Fabric dyeing- Direct, reactive (hot and cold)
  - Synthetic fabric dyeing with disperse dye
- Printing
  - Preparation of stencil of prints
  - Preparation of screen
  - Tie and dye, Block and Screen Printing
- Internship – Six weeks internship in a textile designing or apparel manufacturing of textile dyeing and printing or apparel export unit

**PAPER - III**  
**H.Sc. – 503 : ADVANCE TEXTILES AND FASHION DESIGN (C.T. III)**

Pd/Wk : 5

Marks : 100

**Unit 1 :**

- Technique in pattern making, Flat pattern, draping, drafting, application, principle and limitations
- Commercial pattern: Categories of pattern, pattern making, pattern envelope, pattern guide sheet

**Unit 2 :** Fitting : Principle of fitting, factors to be considered while fitting, common fitting problems, remedying fitting defects, special consideration in designing and layout of the garment (Print, Stripes, Checks, Lines etc.). Fabric selection studying fabric texture, hand body print; Handling of special fabric while cutting and stitching (lace, velvet chiffon) Supporting fabrics: lining, interlining, interfacing, underlining

**Unit 3 :** 1. Fabric classification and analysis of fabric for its construction weaves

- Basic and decorative weaves, plain, twill and satin derivatives, dobby and jacquard, shedding and weaving pile
- Principle of color and design in weaving, preparation of pattern for dobby and jacquard looms, warp and weft pile weaving
- New development in woven fabrics- New loom and loom development
- Textile design through weaving.

**Unit 4 :** 1. Entrepreneurship development in textiles

- Definition
- Characteristics of an entrepreneur
- Entrepreneurship development and employment promotion
- Effort to reduce regional imbalance
- Agencies for development of entrepreneurship
- Establishing an enterprise
  - Problems
  - Information Sources/Schemes of assistance

**Unit 5 :** (a) Fashion concept and history of fashion

- Factors, determining fashion trends, psychology of fashion, fashion cycle
- International fashion designers, Indian design and their impact on fashion
- Fashion careers, creating fashion display, futuristic trends in fashion, their anticipation and implementation

**REFERENCES**

Natalie Bray: Dress Designing

Mccalls: Sewing in Colour

Readers Digest: Complete Guide to Sewing

Hepumeth: Dress Designing and Selection,

Singer sewing Book

Martin , G.M.: The Art of Costume and Personal Dress Designing

Brockman Helen: The Theory of Fashion Designing

Hillbenae, M.S. & Mansfield, C.A.: Dress Designing Draping and Flat Pattern

Aswani, K.T.: Fancy Weaving Mechanism

William Watson: Advanced Textile Design Hand Book on Computer Aided Textile Designing ,  
Published by WRA

**PRACTICAL**

**COMMERCIAL PATTERN MAKING & FASHION APPAREL DESIGNING**

Pd/wk : 6

Marks : 100 (30+70)

- Flat pattern design:
  - Moving, dividing and combining dart by pivot slash and spread method
  - Converting dart into seam line
  - Adding fullness in garment by gathers and pleats
- Adaptation to various designs using 'foundation pattern' Designing apparel and construction with selected dress design
- Draping on dress form and style reading
  - Preliminary draping exercise, front and back bodice
  - Basic front shaping by manipulation of darts-shifting positions, multiple darts, gathers, princess style yokes
- Preparation of 2 commercial paper patterns of children's clothing and their grading
- Style reading and designing through flat pattern, Commercial designing and stitching of 5 Children and 5 adult garments.

**PAPER - IV**

**H.Sc. 504: CONSUMER ECONOMICS AND MERCHANDISING OF TEXTILES**

Pd/Wk : 3

Marks : 75 (25+50)

**Unit 1 :**

- (a) Importance of Textile Industry in the Indian Economy
- (b) History, Growth and developments
- (c) Problems and prospect
- (d) Textile policy
- (e) Textile Management – Organizational structure, Organized and decentralized sector, Market structure

**Unit 2 :**

- (a) Methods of costing, check Indian fashion Industry & its structure
- (b) Elements of cost for a fabric
- (c) Consumer Protection
- (d) Growth of consumerism and problems of consumer

**Unit 3 :**

- (a) Distribution of textile
- (b) Wholesalers, retailers and merchandisers
- (c) Functions and methods of selling
- (d) Role of IT in Textile Industry

**Unit 4 :**

- (a) Export procedure
- (b) Export incentives
- (c) Problems in exporting textiles
- (d) Trends in Indian Exports
- (e) Quality control & ISO certification

**Unit 5 :**

- (a) Advertising and Sales promotion
- (b) Technical Textiles & their importance
- (c) Brand standards, Labeling, fashion shows, exhibition, displays etc.
- (d) Seminar and Report Presentation

**REFERENCES**

Aiya, H.R.: Economics of Textile and Industry in India  
Kali Triodkar: Export Management  
Dudya, V.D.: Management of textile industries  
Macneal James U.: Dimensions of Consumer Behavior  
Tata Services Ltd.: Statistical outline of India  
The Indian textile journal, All India textile directory textile worlds (journal)  
Mathur, Navin: Advertising and consumer reaction in India

**GROUP – B (FOODS & NUTRITION)**

**PAPER - II**

**H.Sc. 502: ADVANCED NUTRITIONAL BIOCHEMISTRY (F.N. – II)**

Pd/wk.: 5

Max Marks: 100

Review of importance, structure, classification and properties with the related topics where ever necessary.

**Unit 1:**

- Enzymes: Intracellular distribution, Kinetics of enzyme reaction-effects of time. Temperature, PH on Velocity, Km Value and its significance, Inhibition, active site and specificity, Mechanism of enzyme action, Enzymes in clinical diagnosis.
- Biological Oxidation: Electron Transport, Oxidative Phosphorylation, TCA cycle.

**Unit 2:**

- Carbohydrates: Isomerism, Ring structure, Proof of ring structure, glycolysis, metabolism of glycogen, gluconeogenesis; hexose mono phosphate shunt, altered metabolism in diabetes mellitus.

**Unit 3:**

Lipids: Oxidation of fatty acids, Oxidation of odd and even number: B-Oxidation, W-Oxidation. Bio- synthesis of fatty acids: Elongation of fatty acid, synthesis of unsaturated fatty acids, Bio synthesis of triglycerides and phosphatides,; Formation and metabolism of the Ketone bodies-ketosis, biosynthesis and regulation of cholesterol, bile acids.

**Unit 4:**

Proteins: Metabolism of amino acid, Urea cycle creatinine and creatine synthesis. Plasma protein and their function, Changes in Blood picture in Proteins malnutrition.

**Unit 5 :**

- Nucleic acid: Mechanics of DNA, Replication and transcription of DNA and translation (Protein biosynthesis). Regulation of biosynthesis and breakdown of purine and pyrimidine nucleotides.
- Hormones: Mode of action and Regulation of metabolism-Follicle stimulating and interstitial cell stimulating hormone, adrenocortico tropic hormone, growth hormone Thyrotropic hormone, adreocortical hormone, sex hormone-testosterone, estrogenic hormone.

**REFERENCES**

West, B.S, Todd, W.R. Neson, H.S. and Van Brugger, T.T. Test book of Biochemistry, Oxford L.B.H. Publishing Co., New Delhi  
 Weite, A., Handler, P and Smith, E.L.: Principles of Biochemistry, McGraw Hill book Company  
 Lehninger, A.L.: Biochemistry: North Publishing Inc. N.Y. Centeron. Abraham and Schepartg: Biochemisrty: Bernard Students Philadelphia  
 Harper, H.A.Rodweel. V.W. and Vayes, P.A. Jange marngen: Review of Physiological Chemistry  
 Pike, R.L. and Brown, H.L. : Nutrition an integrated Approach, john wiley and sons, III Edition, New York, 1984  
 A.V. S. Ramo Rao: Text book of Bio-Chemistry for Medical Students, L.K.S. Publishers, Tanaku

**PRACTICAL - I**  
**BIOCHEMISTRY AND NUTRITION LABORATORY**

Pd/wk : 6  
 Marks : 100 (30+70)

- Estimation of Calcium in food.
- Estimation of Protein by micro Kjeldahal method.
- Colorimetric and flurometric: Phosphorus, Glucose, Iron, total and free cholesterol, Hemoglobin, Vit. A , C & riboflavin
- Enzyme Assay: Alkaline Phosphates, transaminase
- Chromatography: Paper Separation of amino acids, Column Separation of lipids (only demonstration)
- Electrophoresis: Separation of Serum Proteins
- Blood analysis: Blood count, DLC, I- hemoglobin – blood indices
- Urine: Glucose detection
- Techniques in handling laboratory animals balance studies in:
  - Nitrogen balance
  - Iron balance
  - Calcium balance

**PAPER - III****H. Sc. 503: CLINICAL NUTRITION AND DIETARY COUNSELLING (F.N. – III)**

Pd/Wk : 5  
 Marks : 100

**Unit 1:**

- Nutritional and the gastrointestinal- tract malabsorption and patho physiology, carbohydrate intolerance
- Parasitic infections
- Diagnostic tests in gastrointestinal disease- Measurement of motility and gastric acidity. Influence of food on gastric acidity and motility
- Disorders of the Esophagus- Esophagitis, Hiatus, Hernia, Esophageal Reflux, Achalasia, Esophageal obstruction, Indigestion gastritis
- Disorders of the stomach- peptic ulcer. Disorders of small intestine and colon Diarrhea, constipation, irritable colon syndrome, crone's disease, diverticulosis ulcerative colitis
- Nutrition and Dental health- Structure, development and maturation of dental caries, role of nutrients in dental health

**Unit 2:**

- Fevers and Nutrition- Acute and chronic
- Food allergy
- Nutrition and cancer- carcinogenesis and mutagenesis, types of cancer, metabolic effects of cancer- cancer cachexia, Anorexia. Nutrition effects of cancer therapy- surgery, radiation therapy, Chemotherapy, Immune therapy, nutrients and their relationship with cancer

**Unit 3:**

- Nutrition and liver diseases
- Gall bladder diseases
- Renal diseases- Previous diseases in brief. Acute and chronic renal failure dialysis

- Surgery, burns and nutrition

**Unit 4:**

- Nutrition and cardiovascular diseases, Role of lipid and other- Nutrients
- Bile acid metabolism
- Prostaglandins
- Diabetes Mellitus- Nature, classification, high risk factors, metabolic effects, symptoms, diagnosis for diabetes treatment- Diet, Nutritional requirement, glycolytic sweeteners, drugs, acute complication in diabetes

**Unit 5:**

- Nutrition and weight managements – Obesity, over weight underweight
- Food nutrient and drug interaction- classes of drug, their gastrointestinal side effects, other nutritional effects and their dietary precautions
  - Drug metabolism
  - Effects of drugs on nutrition- Alteration in taste, appetite and food intake, alteration in nutrient absorption, alteration in nutrient metabolism, alteration in nutrient excretion
  - Effects of food on drug utilization- Alteration in drug absorption, alteration in drug metabolism and drug excretion
  - Alcohol and metabolism, effects of alcohol and nutrition, wernickes and korsakoffs syndromes
- Dietitians: Classification, code of ethics, responsibilities
- Diet counseling- the dietitian in India, computer application in clinical nutrition

**REFERENCE**

Anita, F.P.: Clinical Dietetics and Nutrition, Oxford Univ. Press UJ ed. 1989

Shills, M.E. and Young, V.R.: Modern Nutrition in Health and Disease

K.M. Varghese Company, Bombay, Comparative Aspects of Nutrition and Metabolic Diseases- CRC Press VIIed. 1988

Joyar M.C and Keteroon: Nutrition and Disease

**PRACTICAL - II**

**CLINICAL NUTRITION, DIETARY COUNSELLING AND INTERNSHIP**

Pd/wk : 6

Marks : 100 (30+70)

- Planning, calculation, preparation, services, evaluation and dietary counseling for the therapeutic diets, covered in theory the practical includes block placement of the students in the real work situations of hospitals: Medical ward, Dietary department for 6 to 8 wks
- Planning, calculation and preparation of diets in Protein Energy malnutrition, Vitamin A deficiency

**PAPER - IV**

**H Sc. 504: ADVANCE NUTRITION II (F.N. IV)**

Pd/Wk : 3

Marks : 75

**Unit 1:** Carbohydrates: hormonal control of carbohydrate homeostasis, Dietary fiber

**Unit 2:** Lipids: Role in Nutrition, Essential and Non-essential fatty acids

Lipoproteins: Classification and importance, Hyperlipoproteinemia, prostaglandins  
Nutrition aspects of atherosclerosis, inter- relationship with carbohydrate metabolism

**Unit 3:** Proteins: Regulation of protein metabolism by G.I. tract and liver, protein reserves, protein malnutrition

**Unit 4:** Energy Metabolism: Relative body weight and body weight standards, weight: height ratio in the assessment of body metabolic rate, changes in body weight and body composition with changing energy balance.

**Unit 5:** Biochemical roles of vitamins and minerals inter relationships: Vitamin A & E, SE & E, Ca & D, Vit. C & Fe Prevention and Therapeutic measures (if applicable).

**REFERENCES**

Willick, M.: Nutrition in the 20<sup>th</sup> Century: Current Concepts in Nutrition Research Advances in Nutrition

Solomans and Rosenberg: Absorption and Malabsorption on Mineral Elements

**GROUP – C (HUMAN DEVELOPMENT)**

**PAPER - II**

**H Sc. 502: ADVANCED CHILD DEVELOPMENT AND FAMILY RELATIONS**

Pd/Wk : 5

Marks : 100

**Unit 1:**

- The beginning of Development: Prenatal development and birth processes
- Early infant behavior and capacities

- Aspects and issues of personality development
  - Gender
  - Aggression
  - Altruism (Pro Social behavior)
  - Child rearing practices
  - Relating to other children
  - Play

**Unit 2: (i) Physical and Motor development**

- The course of physical growth from infancy to adolescence
  - The course of motor development from infancy to adolescence
  - Factors affecting physical growth and motor coordination
- (ii) Adolescent: the transitional years, development of emotional maturity, friendship group membership
- (iii) Sex-role identity: masculinity, femininity and androgyny, Quest for freedom and identity
- (iv) Heterosexual relationship and developing a career
- (v) Need for family life education

**Unit 3: (i) Approaches to family studies**

- Development approach
  - Interactional approach
  - Institutional approach
  - Structural functional approach
  - Systems approach
- (ii) The family in social context
- Family and society
  - Changing sex-role and man women relationship
  - Functions of modern families: Urban, Rural, sociocultural background
  - Population problems and family

**Unit 4:**

**(i) Conceptual overview of family life cycle**

- Stages in family life cycle and their developmental task
- Problems of parenthood at different stages
- Socialization of the child
  - Parental strategies in child rearing
  - Pattern of marital adjustment, areas of adjustment (Money, in-law and sex)
  - Generation Gap and adjustment

**Unit 5: Contemporary Issues: Dynamics, Intervention and Relief Programmes**

- Family violence, battered women, child maltreatment and sexual abuse
- Families in trouble separation and divorce
- Single parents family
- Mothers employed outside the family

**References**

- Burgers and Locke: The Family, American Book Co. New York 1953
- Duvalh E.: Family development, J.B. Lippincott, New York, 3rd ed. 1967
- Foster: Marriage and Family Relations, Macmillan, 1950
- Hill R. and Waller: The Family, Holt Rinehart and Winstion, New York (Latest ed.)
- Kapadia, K.M.: Marriage and Family, Oxford, Calcutta Univ. Press, 3<sup>rd</sup> ed. 1972
- Prabhy: Hindar Social Organization, Popular Book Co. 1954
- Williamson, R.C.: Marriage and Family Relations, Collier Macmillan, London, 1969
- Baber: Marriage and Family, McGraw Hill Book Company, New York (Latest ed.)
- Newman and Newman: Infancy and Childhood development and its Context, John Willey, 1978
- Baron, R.A.,Bynne, D. and Kantwitz, B.M.: Understanding Behavior: Holt, Rinehart, 1980
- Bee, Helen: The Developing Child, Harper and Row, 1980
- McCandles, B.R. and Trotten, R.J.: Children Behavior and Development, Hot and Rinehart, 1967
- Rogers, W.: The Psychology of adolescent, Prentice Hall, 1976
- Rice, P.F. The adolescent development, Relationship and Culture, Allyne & Bacon, 1981
- Jersi,Id, A,: Psychology of Adolescent, VI ed.
- Stott, Leiand, H: The Psychology of Human Development, McMillan Co. 1975
- Hurlock, E.B.: Adolescent Development, McGraw Hill,
- Mussen, P.H. Conger, J.J. and Kagen, J., Harper and Row: Essentials of Child Development and Personality, 1980

**JOURNALS AND PERIODICALS**

1. Child Development – International Journal – Sage Publication
2. Indian Journal of Marriage and Family



**PAPER - III**  
**H. Sc 503: CHILDREN WITH SPECIAL NEEDS AND GUIDANCE AND**  
**COUNSELLING**  
**(HD – III)**

**Pd/Wk: 5**  
**Marks: 100**

**Unit 1 :**

- Introduction: Nature of special needs, Meaning of disabilities, Importance of treatment and rehabilitation, Importance of early detection. Assessment of disabilities, Difficulties of a disabled child in family, school and community
- Types of disabilities: Mental retardation, Nature of mental retardation, levels of retardation, causes and characteristics
- CP & Spastic: Causes and characteristics, Children with visual impairment, Levels of disability, causes, characteristics

**Unit 2 :**

- Children with auditory impairment: Levels, causes, characteristics and treatment
- Children with orthopedic disabilities: Types, causes, characteristics and treatment
- Children with Learning disabilities: Definition, causes, manifestation of learning disabilities, Language, perceptual, Sensory-Motor, emotional and behavioral information processing

**Unit 3 :**

- Emotionally disturbed Children: Emotional conditions and maladjustment, Diagnosis of emotional maladjustment and other behavior problems
- Gifted Children: Definition, identification, characteristics
- Integration: Integration and mainstreaming of Children with special needs. Role of family, school and community, Educational management and psychological intervention for special Children

**Unit 4 :**

- Counseling: Definition, expectations, goals, scope and limits, Mythes regarding counseling
- Characteristics of an effective counselor: The Clients characteristics, Age, Sex, Cultural expectations
- The process of counseling:
  - Stages
  - Problem exploration and classification Stage
  - Developing new perspective and setting goals Stage
  - Implementation and evaluation
- Counseling Techniques and Practices: Rapport techniques and practices, Questioning, Listening, Reflecting, Acceptance, Silence, Leading, Reassurance, Non-verbal behavior, Terminating Skills-Special Consideration, Structuring the process, optimal concern. Recording counseling process

**Unit 5 :**

- Counseling Theories: Key concepts and techniques, Cognitive behavior modification strategies like self instruction  
Gestalt approach, Transactional approach, Behavior Therapy modification, rational emotive Therapy, Type of Counseling- Individual, Group, Child Therapy, Marriage & Family, Vocational guidance and counseling, Ethics in counseling

**REFERENCES**

- Mehta, D.S.: Handbook of Disabled in India, Allied Publishers Private Ltd. Bombay, 1983
- Smith, M.S., Naisworti, J.T.: The Exceptional Child: A Functional Approach, McGraw Hill, 1975
- Encyclopedia of Social Work in India, 3 volumes, Director, Publication Division, Ministry of Information & Broadcasting, India, Planning Commission
- Chaudhary, P.D.: Child Welfare and Development, Atmaram and Sons, New Delhi, 1980
- Crukshank, W.M. & Johanson, G. O.: Education of Exceptional Children, Oxford Publication Comp. 1970
- Gajendragadkar, D.N.: Disabled in India, Somaiya Publishers, 1983
- Udia Shanker: Exceptional Children, Sterling Publishers Ltd. New Delhi
- Chapman: Management of Emotional Problem of Children and Adolescence
- Jessie Francis Williams: Children with Specific Living Difficulties, Pergamon Press, 2<sup>nd</sup> ed.
- Frussive, E.C. and Barbe, WE. (Edited); Educating Children with Living Disabilities, Appellatives Century Crofts Pub. New York, 1967
- State, D.H.: Helping Children with Learning Difficulties, World Locke Educationals
- Geraheart, B.R.: Learning Disabilities: Education strategies Mosby college publishing, 1985

**PAPER - IV**  
**H Sc. 504: THEORIES OF HUMAN DEVELOPMENT AND CURRENT ISSUES**  
**RELATED TO WOMEN(H.D. – IV)**

**Pd/Wk: 3**

**Marks: 75**

**Unit 1:** 1. Theoretical perspectives in behavior and development: Introduction, Role of theory, Nature of behavior theory, Importance of theories in understanding behavior  
2. Principles, basic concept, critique and implication of theories: Psychodynamic theories

- Freud's Psychoanalytic theory and
- Erickson's Psycho social theory

**Unit 2:** 1. Learning theories with reference to Pavlov, Watson, Skinner, Harlow and Sears  
2. James Lange theory of emotion and Kohlberg's theory of morality

**Unit 3:** 1. Cognitive Organism theory of Piaget  
2. Vgotsky of Cognition & Socio cultural theory  
3. Ecological theory of Bronfenbrenner's

**Unit 4:** 1. Importance of Studying Women,  
Status of Women

- Demographic
- Political
- Social
- Educational
- economic

2. National Organization Dealing with issues of Women.

a. CSWB

b. NIPCCD

c. National Commission on Women

d. Laws pertaining to marriage, inheritance

**Unit 5:** 1. Problems and issues of Women in India: Contemporary Existing Laws

- Suicide
- Dowry
- Gender bias and Prejudices
- Health and Reproductive Health
- Women and Mass media in India
- Sexual Exploitation, Prostitution, Trafficking and Rape
- Singlehood, Unwed Mothers, Widowhood
- Women Criminals and Rehabilitation
- Domestic Violence
- Adoption
- sexual harassment
- discrimination at work place
- PCPNDT act

**REFERENCES**

Baldwin, A.L.: Theories of Child Development, John Willey, 1980

Maier, H.W.: Three Theories of Child Development, Harper and Row, 3<sup>rd</sup> Ed.

Bandura, A.: Social Learning Theory, Englewood Cliff N.J. Prentice Hall, 1977

Bronfenbrenner, U.: The Ecology of Human development, Cambridge Harvard Univ. Press. 1979

Hall & Lomsky: Theories of Personality, N.Y. 1970

Langer. J.: Theories of Development, Holt, Rinehart & Winston, New York, 1969

Status of Women in India, A Synopsis of the Report of National Committee (1971-74) New Delhi, ICSSR 1974,2

Jain Devaki: Women's Quest for Power Five Indian Case Studies, Vikash Publication House Pvt., Sahibabad, India, 1980

D'Souza, Alfred: Women in Contemporary India and South Asia, Macha publication, New Delhi, 1970

Kapoor, Premilla: Marriage and Working Women in India, Vikas Publication, Delhi. 1970

Desai, N.: Women in Modern India, Vora and Company, Princess Street Bombay, 1977

Women and the Law of inheritance, 1981-82

Mitra, Ashok: The Status of Women, Literacy and Employment, Allied Publishers Pvt. Ltd., Bombay, 1979

International Women's year book edited by Roy Kinkier, 1975, Bashodhary Publication, Bombay

Research Unit on Women Studies, Women in India, SNDT Women University, April, 1981

D'Souza, Alfred: Women in contemporary India, Traditional Images and Changing Rules

**PRACTICAL - I**  
**GUIDANCE AND COUNSELING WITH INTERNSHIP**

**Pd/Wk: 6**  
**(30+70)**

**Marks: 100**

- Skill development of following Counseling Techniques through mock activities of: Rapport Building and Opening Techniques Questioning, Listening and Acceptance Terminating Skills, Conducting mock interview.
- Preparation of a case Study of a Child and Presentation of the “Case” in Classroom. (Which Should include use of Psychological testing, taking case history and observation of the case at home and school setting).
- Literature review and preparing resource file on the topic of counseling and guidance.
- Planning a need based “Parent Education” Programme and its conduction and evaluation (shall include Questionnaire Construction).
- 3 to 4 Week placement of the student in a Child Guidance Clinic, where they shall observe assist and handle “Cases” under the guidance of Chief counselor in the Clinic

Internal Assessment: Continuous Assessment of Classroom activities, case study: Preparation and Presentation, Report form the Counselor, Resource file, Parent-Education Programme, Planning and Evaluation, Examination: Planning of Parent Education Programme. Presentation of Case Study Interview and Questionnaire Viva.

**PRACTICAL - II**  
**PLANNING AND PREPARATION OF MATERIAL FOR CHILDREN IN-NEED FIELD**  
**WORK IN CHILDREN WELFARE CENTRES**

**Pd/Wk: 6**  
**Marks: 100 (30+70)**

- Visits and observation of Centers of Childhood care and education:
  - Schools for Children in India
  - Slum Balwadis
  - Aanganwadis
  - Crèche and Daycare centers
- Planning, preparing and implementing programmes for over all development, recreation and education for children in above mentioned centers to provide intensive work experience, deeper knowledge and understanding and to develop skills in handling and working with children in-need.
- Organizing a Seminar/Workshop/ balmela/ balsabha on Child related issues