



 <p>Estd. 1962 "A+" Accredited by NAAC (2021) With CGPA 3.52</p>	<p>SHIVAJI UNIVERSITY, KOLHAPUR 416 004, MAHARASHTRA PHONE : EPABX – 2609000, www.unishivaji.ac.in, bos@unishivaji.ac.in शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र दूरध्वनी - ईपीएबीएक्स - २६०९०००, अभ्यासमंडळे विभाग – ०२३१-२६०९०९४</p>		
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जा.क्र./शिवाजी वि./अ.मं./

दि.20/05/2023

To,

The Principals,

All Concerned Affiliated Colleges / Institutions.

Shivaji University, Kolhapur.

Subject: Regarding syllabi of M.Phil/Ph.D Course Work Home Science under the Faculty of Inter- Disciplinary Studies.

Sir/Madam,

With reference to the subject, mentioned above, I am directed to inform you that the university authorities have accepted and granted approval to the syllabi of M.Phil/Ph.D Course Work Home Science under the Faculty of Inter-Disciplinary Studies.

This syllabi shall be implemented from the academic year 2024-2025 onwards. A soft copy containing the syllabi is attached herewith and it is also available on university website www.unishivaji.ac.in. (Online Syllabus)

You are, therefore, requested to bring this to the notice of all students and teachers concerned.

Thanking you,

Yours faithfully,

Dr. S.M.Kubal
(Dy Registrar)

Copy to:

1	Director, Board of Evaluation and Examination	7	Centre for Distance Education
2	The Dean, Faculty of IDS	8	Computer Centre / I.T.cell
3	The Chairman, Respective Board of Studies	9	Affiliation Section (U.G.) / (P.G.)
4	B.A.,B.Com.,B.Sc. Exam	10	P.G.Admission/P.G.Seminar Section
5	Eligibility Section	11	Appointment Section -A/B
6	O.E. I, II, III, IV Section	12	Dy.registrar (On/ Pre.Exam)

SHIVAJI UNIVERSITY, KOLHAPUR



Syllabi of Ph.D./M.Phil. Course Work
HOME SCIENCE

Implemented from June 2024 onwards

**A] Ordinance/Rules/Regulations:
(as applicable to M.Phil./Ph.D. programme)**

B] Shivaji University, Kolhapur

New/Revised Syllabus For Course of M.Phil./Ph.D. programme

1. TITLE: Subject- Home Science

Optional/Compulsory under the Faculty of Inter Disciplinary Studies (IDS)

2. YEAR OF IMPLIMENTATION: New/Revised Syllabus will be implemented from June 2024 onwards.

3. PREAMBLE:

The M.Phil./Ph.D. Course Work shall involve Three Papers Viz.

Compulsory Paper-I

i) Research Methodology

Compulsory paper-II

ii) Recent Trends in the Home Science:

iii) Optional paper (Based on Specialization): Any one among five specializations

1. Thrust Areas for Research in Food and Nutrition

2. Thrust Areas for Research in Family Resource Management

3. Thrust Areas for Research in Human Development

4. Thrust Areas for Research in Textile and Clothing

5. Thrust Areas for Research in Home Science Extension Education

4. DURATION

* The M.Phil. programme shall be a full time regular course

* The duration of M.Phil. programme shall be of One year

5. PATTERN:

Pattern of Examination will be Annual in respect of M.Phil./ (including dissertation) Semester in respect of Ph.D.

SHIVAJI UNIVERSITY, KOLHAPUR

Master of Philosophy M. Phil. / and Doctor of Philosophy [Ph. D.]

M.Phil. Ph.D. Coursework COURSE STRUCTURE

(To be implemented from Academic Year 2020-21 Onwards)

A) Pre Registration Coursework :

Sr. No.	Paper Title	Examination Scheme				
		No. of credit	Theory		Minimum passing 40%	Total Marks
			Continuous Assessment	Written Examination		
1	2	3	4	5	6	7
1	Research and Publication Ethics (RPE)	2	20	30	20	50
Written Exam : MCQ TYPE / To be Conducted faculty wise through Examination Section						

Before the confirmation of registration, the scholar has to complete Pre - Registration Coursework.

Continuous Assessment will be done through tutorials, assignments, quizzes and group discussions, Weightage will be given for active participation. Final written examination will be conducted at the end of the course

B) After Registration Pre Ph.D. Coursework:

1) Total No .of Compulsory Papers as per UGC Guideline :

Sr. No.	Subjects / Papers	Marks
1	Research Methodology, Quantitative Techniques and Computer Application.	100
2	Recent Trends in the subject concerned	100
3	Optional Paper (Based on Specialization).	100
	Total	300

2) SCHEME OF TEACHING:

Sr. No.	Paper Title	Teaching Scheme			
		Lectures in Hours	Seminars in Hours	Library Work in Hours	Total Hours
1	Research Methodology, Quantitative Techniques and Computer Application	40	10	10	60
2	Recent Trends in the subject concerned	40	10	10	60
3	Optional Paper (Based on Specialization)	40	10	10	60

3) SCHEME OF EXAMINATION :

Sr. No.	Paper Title	Examination Scheme				
		No. of credit	Theory Marks	Internal Marks	Minimum Passing 40%	Total Marks
1	Research Methodology, Quantitative Techniques and Computer Application	4	80	20	40	100
2	Recent Trends in the subject concerned	4	80	20	40	100
3	Optional Paper - M. Phil /Pre. Ph. D. (Based on Specialization)	4	80 Marks	20	40	100
Total						300
<ul style="list-style-type: none"> Theory Examination: is to be conducted by the university with duration of 3 hours per paper. Internal Examination is to be conducted by the concerned departments or research centers in the following form: <ol style="list-style-type: none"> For paper 1 and 2 the internal evaluation will include 2 Seminars of 10 Marks each For paper – 3 the internal evaluation will be as follows: <ol style="list-style-type: none"> Seminars (Submission and Presentation)- 10 marks Review s Literature : Submission and Presentation- 10 marks <p>(Papers will have separate passing head for theory examination and internal evaluation 32+8=40)</p> 						

STANDARD OF PASSING:

- i) The scholar should secure minimum 40% marks to complete the course work in individual paper. M. Phil. / Ph.D. scholar has to obtain a minimum of 55% of marks or its equivalent grade in the UGC 7 - point scale in the course work in order to be eligible to continue in the programme and submit the dissertation / thesis (as per R.D. 11.9). the candidate will be allowed to reappear the examination for one, two or three papers if he / she could not achieve 55% aggregate in coursework examination.
- ii) The examination shall be conducted at the end of each academic year.
- iii) The evaluation of the performance of the scholars shall be as per scheme of examination.
- iv) Question Paper shall be set in the view of the / in accordance with the entire syllabus and preferably covering each unit of syllabus.

NATURE OF QUESTION PAPER AND SCHEME OF MARKING:

The nature of question paper for the subject/paper shall be as indicated below:

- a. Short answered questions (*Any Four Out of Six Questions*) (20 Marks)
- b. Long answered questions (*Any Two Out of Four Questions*) (20 Marks)
- c. Short notes (*Any Four Out of Six Questions*) (20 Marks)
- d. Problems / Cases/Exercise Oriented Questions.
(*Any One Out of Two Questions*) (20 Marks)

Note: *Question Paper should focus on all units in the syllabus*

NEW/REVISED SYLLABUS FOR

M.Phil./Ph.D. Course Work

(Introduced from June 2024 onwards)

Paper I: Research Methodology, Quantitative Techniques and Computer Application

Course Outcomes: To enable Students to

1. Understand meaning, process and importance of research in Home-Science.
2. Develop inclination in preparing report as well as project proposals.
3. Understand application of statistics in research.
4. Motivate for the use of computers in Research for Home Science.
5. Impart knowledge of Computer applications for data analysis

Course Outcomes: The students will enable

1. To gain knowledge on scientific research
2. To understand the fundamental principles and techniques of research methodology
3. To apply statistical techniques, analyse numerical data and draw conclusion.
4. To select problem tools and methods for conducting research.
5. To interpret data manually as well as on computer

Module 1: Research Design and Sampling

**15 lectures
(20 marks)**

1.1 Research

- a) Meaning, concept and importance of Research
- b) Characteristics and objectives of research, Role of research in different areas of Home-Science

c) Qualities of good researcher

d) Essential steps in research

1.2 Meaning, Functions, Types and formulation of Hypothesis.

1.3 Research Design - Types of research design, Difference between applied and pure research.

1.4 Meaning and Types of Data and Methods of data collection

1.5 Meaning and nature of sampling, Characteristics of good sample, Sampling Techniques, Advantages and limitations of sampling technique, Methods of Sampling- Probability sampling and Non-probability sampling

Module 2: Tools of research and Scaling Techniques

15 lectures (20 marks)

2.1 Tools of Research - Interview, questionnaire, schedule methods,

2.2 Scaling Techniques - Types of Scales - Normal, ordinal interval and ratio, scales, steps in construction of scales, Reliability and validity of scales.

2.3 Preparation of project proposals and scientific report writing : Formulation of research topic, Title, Importance, Objectives, Reviews of Literature, ;Variables (Types), Methodology, Time schedule and Budget estimate.

2.4 Process of writing a research article in research journal for the publication

2.5 Funding agencies for research projects

Module 3: Quantitative Techniques

15 lectures (20 marks)

3.1 Measures of Central Tendency - Mean, Median and Mode.

3.2 Measures of Dispersion - Quartile deviation, standard deviation, and their relative measures.

3.3 Correlation: Concept of Correlation, Scatter diagram method, Karl Pearson's correlation coefficient.

3.4 Hypothesis Testing - Concept of population, sample, Parameter, Statistic

Hypothesis, one tailed and two tailed tests. Errors in testing of Hypothesis, Critical Region, Level of significance

a) Large Sample Tests -

i) Test of population mean.

ii) Test of equality two population means.

iii) Test of equality of two population proportions.

b) Small Sample Test -

- i) Chi-square test: Test of independence of Attributes and test of population variance.
- ii) Student's 't' Test and 'Z' tests : Test of population mean, equality of two means and test of population correlation coefficient.
- iii) Analysis of Variance - one way and two-way classification.
- c) Application of SPSS in data analysis
- d) Plagiarism: Concept and importance

Module 4: Computer Application

15 lectures (20 marks)

- 4.1 Working with MS-word and Excel, formatting document and text, designing tables and graphs for research purpose.
- 4.2 Use of various statistical functions like, average, sum, standard deviation, correlation.
- 4.3 Slide preparation for power point presentation.
- 4.4 Probability and Probability distributions - Concept of Probability, Laws of Probability: Normal distribution and related examples.

vi. Recommended readings:

a. Basic reading :

1. S. R. Gupta Research Methods
2. Devdas R. P. and Kulandaivel K. Hand book of Research Methodology, Sri. Ramkrishna Vidyalaya, Coimbatore
3. Kothari G.R. Research Methodology, Methods and Techniques, Wiley Eastern Ltd. New Delhi
4. Lulbir Singh Sindhu, Methodology of Research in Education, Sterling Publishers Pvt. Ptd. New Delhi, 1987
5. Wilkinson T. S. and Bhandarkar P. L. Methodology and Techniques of Social research, Himalaya Publishing House, Bombay, 1984.
6. Agarwal V. P. Statistical Methods, Publishers Pvt. Ltd. 1990.
7. Srivastava A.B.L. and Sharma K.K. Elementary Statistics in Psychology and Education, Sterling Publishers Pvt. Ltd.

b. Advance reading:

1. Probability Theory and Mathematical Statistics V. K. Rohatgi.
2. Fundamentals of Statistics Vol I and II Goon, Gupta Dasgupta.
3. Fundamentals of Mathematical Statistics S. C. Gupta & V. K. Kapoor.

c. Reference Books:

1. Ingale P. O., Scientific Report Writing
2. Kulkarni S. Y. and Mohod Vandan, Thesis Writing - Some Guidelines,.
3. Kamath R. and Udipi S., Guide to Thesis Writing.
4. Gomez K. A. and Gomez A. A., Statistical Procedures for Agricultural Research,
Willily International, John Willeye sons, 1984.
5. Darogasingh, Theory and Analysis of Sample survey
6. Garret H. E., Statistics in Psychology and Education
7. Misra R. P., Research Methodology
8. Panse and Sukhatnme , Statistics

NEW/REVISED SYLLABUS FOR
M.Phil./Ph.D. Course Work
(Introduced from June 2024 onwards)

Paper-II

Title of paper: Recent Trends in Home Science

Total Credits: 4

Total Marks – 100

Theory – 80 marks

Internal – 20 marks

Course Outcomes: The students will enable to

1. To understand the advanced aspects in Home-Science.
2. To recognise the role of advanced studies in various areas of Home-Science.
3. To acquaint with recent advances in the field of Home-Science.

Module 1:

**15 lectures
(20 marks)**

- 1.1 Studies of traditional and novel foods in India, value added foods, non nutritive foods.
- 1.2 Processing technology of foods and nutritional implication for cereals, pulses, oilseeds, fruits and vegetables, milk, meat, fish and eggs.
- 1.3 Impact of environment on Health and Nutritional status of the community.
- 1.4 Food allergy, food safety and security, Food adulteration, Food spoilage, Food distribution system.

Module 2:

**15 lectures
(20 marks)**

- 2.1 Consumer ergonomics- Significance and scope of ergonomics, Application of ergonomics in family environment and people with special needs, Design of various work stations, equipments and furniture's finishes.
- 2.2 New trends in Interior space designing - Material used in interior, surface treatments for various purposes (walls, ceilings, windows and window treatments, Furniture finishes)

Module 3:**15 lectures
(20 marks)**

3.1 Problems during different stages of life cycle i.e. childhood, adolescence, adulthood and old age (physical, behavioral, psychological and social)

3.2 Early childhood education and care centers : Crèches, Anganwadi, Daycare, Play schools, Kinder gartens, Schools for special children, Child Welfare Organisations i.e. CRY, UNICEF.

3.3 Government policies for child welfare, NGO's working for child welfare.

Module 4:**15 lectures
(20 marks)**

4.1 New developments in fibre manufacturing in India. i.e. bi component, bioconstituent and special purpose fibres. i.e. heat, water, crease, fire, fungal resistance fibres

4.2 Entrepreneurship development in women through Home Science education

4.3 Policies and programmes for development of women entrepreneur

v. Recommended readings:**a. Basic reading :**

1. Essentials of Food and Nutrition by M. Swaminathan, Vol II. The Bangalore printing and publishing co. Ltd. No. 88 Mysore road, Bangalore 560 018.
2. Food Science by Norman N. Potter, Joseph H. Hotchkiss, V Edi. CBS Publisher and Distributors, 4596/1A, 11, Dariaganj, New Delhi - 110 002.
3. Management for Modern Families by Gross Crandell and Knoll.
4. Child Development by J. N. Vyas.
5. Community Development - by Govt. of India.

b. Advanced reading:

1. Food, Nutrition and Health by Vijaya Khader Kalyani Publishing House, Ludhiyana.
2. Ergonomics at Work by Osborne David, John Willey and Sons, Chichester, London.
3. Early Childhood Care and Education by V. K. Khurshid Al. Eslam.
4. Foundation of Arts Design. Bhatt P.D., Goenkas.
5. Handbook of Textile Fibres and Man made Fibres by Cook. J. Gordon, Merrow publishing Ltd. England.

6. Entrepreneurship for Women in India by Akhauri M. M. P. 1990, Publishing

c. Reference Books:

1. Ergonomics Design for People at Work. Eastman Kodak Company, Vol. I and II
2. Ergonomics of the Home, Grandjeans Eliens
3. Body Space, Anthropometry, Ergonomics and the design of the work, Pheasant Stephan
4. The Art of Interior Design, Bau, Victoriak 1655
5. Encyclopadia of Interior Design
6. Handbook of Fibre Science and Technology - by Iewin M. and Sello, Stephen V. Vol. II
7. NESBV, New Delhi
8. Women and Empowerment : Approaches and Strategies by Sahay, S. Discovery Publishing House New Delhi
9. Empowerment of Women by Yadav, C. P. Laxmi Sansthan Publishing Anmol New Delhi

Journals:

- i. Asian Journal of Home Science
- ii. Journal of Dairy, Foods and Home Science
- iii. Maharashtra Journal of Extension Education
- iv. Indian Journal of Nutrition and Dietetics
- v. Indian Journal of Pediatrics
- vi. Journal of Research Reach

NEW/REVISED SYLLABUS FOR
M.Phil./Ph.D. Course Work
(Introduced from June 2024 onwards)

Paper-III

i. Title of paper: Thrust areas for Research in Food and Nutrition
(Paper No. I)

Total Credits: 4

Total Marks – 100

Theory – 80 marks

Internal – 20 marks

Course Outcomes: The students will enable to

1. perform independent and significant research in area of Food and Nutrition
2. acquaint broad knowledge of all fields of Foods and Nutrition and have a deep understanding of its areas.

Module 1:

15 lectures

(20 marks)

1.1 Introduction to probiotics, prebiotics and synbiotics: Concept of probiotics, prebiotics and synbiotics, its health benefits in human diet, ICMR guidelines for probiotic foods

1.2 Formulation of value added and indigenous foods with its evaluation, its efficacy to the community with special reference to vulnerable groups.

1.3 Nutrition Education, Methods of assessment of Health and Nutritional status of the society, Measures to improve Health and Nutritional status of the society, KAP

1.4 Organic foods-Concept, use and its impact on health

Module 2:

15 lectures

(20 marks)

2.1 Processed Foods, its impact on nutrient content, effects on health,

2.2 Evaluation of storage stability of processed foods, food adulteration act and law, its application to the community health.

2.3 Assessment of food quality control, food safety and physico-chemical properties

of newly developed varieties of foods, Food analysis methods .

Module 3:

**15 lectures
(20 marks)**

3.1 Application and evaluation of special dietary treatment in specific diseases cardiovascular, diabetes mellitus, kidney, gastrointestinal (diarrhoea, constipation), under nutrition, over nutrition, liver disease, HIV/AIDS.

3.2 Formulation, preparation and evaluation of space foods, foods for sports, enteral and parenteral food formulae, role of antioxidants in promotion of health status.

Module 4:

**15 lectures
(20 marks)**

4.1 Estimation of proteins, fats, vitamins minerals and dietary fibres. Nutrition related enzymes and hormones.

4.2 Methods for evaluation of nutrient metabolism. Concept of nutrigenomics, GM Foods and nutraceuticals Nutrition role of inborn error of metabolism. Nutrition in cellular management.

4.3 Ministries in Food and Nutrition, and their policies.

Basic readings:

1. The Complete Health Food Guide - By Robert Morse, N.D.
2. Hygiene and Health by Ahmed M.N.

Advance readings:

1. Cancer free life of Women by Meenal Kumar and R. Kumar
2. Wellness and Well being by R. Kumar and Meenal Kumar.
3. Prevention of Heart disease and healthy life By R. Kumar and MeenalKumar.
4. Vijaya Kumar, B., Vijendra S.V. N. and Reddy, O.V.S. 2015 trends in dairy and Non-dairy Probiotic products: A Review, Journal of Food Science and Technology, 52 (10)

Reference Books:

1. Food and Nutrition by Educational Planning Group Delhi.
2. Health and Food by William H. Hay.

3. Biochemistry by U. Satyanarayan
4. Food Science by Norman N. Potter, Joseph H. Hotchkiss.
5. Food Nutrition and Health by Vijaya Khader
6. Essential of Food and Nutrition by M. Swaminathan.

Journals

Journal of Food Science and Technology Indian

Journal of Nutrition and Dietetics American

Journal of Nutrition

British Journal of Nutrition

Journal of Plant Food and Human Nutrition

Journal of cereal technology

NOTE:

Internal Exam:

- a) Submission and presentation of Seminars – 10 marks
- b) Review of literature: Submission and presentation – 1- marks

(Papers will have separate passing head for they exam and internal evaluation 32+8=40)

NEW/REVISED SYLLABUS FOR
M.Phil./Ph.D. Course Work
(Introduced from June 2024 onwards)

Paper-III
Title of paper: Trust Areas for Research in Family Resource Management
(Paper No. II)

Course Outcomes: The students will enable to

1. Know the concept of system approach, energy resources, resource recovery and its application in various sectors
2. Understand the advancement in the field of Family Resource Management
3. Create awareness about conservation of environment
4. acquaint the knowledge regarding consumer laws

Module 1: Family Resource management-Concept of System Approach **10**
lectures

(20 marks)

- 1.1 Concept of Management, Role of motivation in management, System approach to Family Resource management- micro and macro environment
- 1.2 Concept of resources-meaning, characteristics, classification, factors affecting utilization of resources, resource optimization- Human, Energy. Time , money, management, work simplification
- 1.3 Decision making- significance, types, process – relevance of communication in the process

Module 2: Environmental Management of Key Resources **15 lectures**
(20 marks)

- 2.1 Need for sustainable management of Key resources- land, water, air, energy management, solid and waste management, sustainability and management of key resources, environmental education,
- 2.2 Impact of socio-economic environment on family and community, Impact of environmental pollution on community health

Module 3: Energy Management:**15 lectures****(20 marks)**

- 3.1 Importance of energy, Types of efforts required for various activities,
- 3.2 Fatigue – Types, methods of over-coming fatigue,
- 3.3 Work simplification – Definition, Mundell's classes of change, Techniques
- 3.4 Ergonomics – Definition, scope, objectives, Domains, Man, Machine and Environment(MME)

Module 4: Consumer Problems and Protection:

- 4.1 Consumer- Definition, Types of Consumer Problem,
- 4.2 Consumer rights and Responsibilities, Consumer education and awareness.
- 4.3 Consumer Protection – Government and Private; Consumer redressal, functioning of consumer court, Consumer Protection Act
- 4.4 Consumer information and education: Consumer Aids – label, brand, trademark and other certification marks

Basic readings:

- 1. Modern Ideal House for India. : Deshpande, R. S.
- 2. Town and Courtly Planning and Housing. : Ambedkar, V. N. & Modak, N. V

Advance reading:

- 1. Publication of Housing Board.
- 2. Jain, H.: Non-conventional sources of energy.: C.3.
- 3. Deshpande, B. G, The World of Petroleum.

Reference Books:

- 1. The Emerging consumer. : Chandha R
- 2. A Growing Concept: Seetharaman, P and Seth, M. : consumerism
- 3. Body space, Anthropometry, ergonomics and the Design of work.
:Pheasant Stephen
- 4. The Impact of Environmental Degradation on people. :Vegas, Philip andMeanon, Geeta

5. Trivedy, R. K. and Arvind Kumar : Eco-Technology for Pollution Control and Environmental management.
6. Suja, nair, (2002), Consumer Behaviour, Sultan Chand and Sons, New Delhi.
7. Goel S, (2016), Management of Resources for Sustainable Development, New Delhi: Orient Blackswan Private Limited, India

Journals

- i. Journal of Indian Architect
- ii. Asian Journal of Home Science
- iii. Journal of Dairy, Foods and Home Science

NOTE:

Internal Exam:

- a) Submission and presentation of Seminars – 10 marks
- b) Review of literature: Submission and presentation – 1- marks

(Papers will have separate passing head for theory exam and internal evaluation 32+8=40)

NEW/REVISED SYLLABUS FOR
M.Phil./Ph.D. Course Work
(Introduced from June 2024 onwards)

Paper-III

Title of paper: Trust Areas for Research in Human Development
(Paper No. III)

Course Outcomes: The students will enable to

1. Understand the factors in Human development that influence life span
2. Gain knowledge on theoretical perspectives and its implication on development and behavior
3. Utilize the knowledge of Human Development and apply to the field of research to contemporary problems and real world situation.
4. Understand the importance of early childhood education in early years of life.
5. Realize the need of gender equity and gender issues.

Module 1: Early Childhood Education

15 lectures
(20 marks)

- 1.1 Early Childhood Education - Definition, Need and importance, aims and objectives, Outcome of early childhood education on all round development, Emerging trends.
- 1.2 Development problems and disabilities during childhood and adolescence, Guidance and counseling.

Module 2: Adolescence and Youth

15 lectures
(20 marks)

- 2.1 Adolescence and Youth – Definition, Concept of adolescence and youth in India.
- 2.2 Perspective of Adolescent and Youth Development –Identity formation; Changes in attitude, interest and behaviour; Factors influencing the developments and its consequences.
- 2.3 Relationships during Adolescence and Youth - Parent-adolescent/youth relationship, Sibling relationship; Peer relationship, Heterosexual relationship.

Module 3: Gender equity

15 lectures
(20 marks)

- 3.1 Gender equity- Definition, need and Gender issues and Gender based violence-

Dowry, Domestic violence, Sexual abuse, female infanticide, problems of working women, State initiatives to promote gender equality-Laws Enforcing agencies

3.2 Gender discrimination and its impact on child development.

Module 4

**15 lectures
(20 marks)**

4.1 Behavioural Problems in children- Definition, classification, causes and remedies

4.2 Development Intervention for children with special reference to juvenile delinquency,

4.3 Child labour problems, Family-its role, importance and contribution in child development, family disorganization.

Basic Readings:

1. Early Childhood Care and Education S. Khurshid-UL-Islam V. K. Rao
2. Integrated Approach to Human Development An Introduction Dr. Rekha Sapra
Vishvabharati Publishers, New Delhi. (2007)

Advance Readings:

1. Family Relationship and Child Development R. K. Arora Murlial and sons New Delhi - (2006)
2. Child Development and Disability and Assessment Prachi Kanhai
Commonwealth New Delhi (2001)
3. Adolescent Girls - Social Needs and Psycho Social Problems R. K. Choudhary
J. M. Choudhary National Publishing House, Jaipur (2008)
4. Human Development Diane F. Papalia Sally Nendkop old, Tata McGrawHill
Publishing Company (2004)
5. Child Development and Family Relationship Dr. Veena Sharma Research Publication
Jaipur.
6. Managing Childhood Problems- Support, Strategies and Interventions
G. Narayana Reddy Suma Narayan Reddy, Kanishka Publishers, Distributors, New Delhi
(2003)

Reference Books:

1. Sarla Grover, Child Development Printwell Publishers, Jaipur
2. S. R. Sharma , Psychology and Child Development, Pointer Publishers
3. Spodek B. Handbook of Research in Early Childhood Development
4. Children in India : Issues in Human Development Dsouza, A. (1979)Manohar Publisher
5. Relationship in Marriage and Family Stinnett and Walterd
6. Child Development Dr. J. N. Vyas Medi Norld Press Bikaner (1994)

Journals

- i. Asian journal of Home Science
- ii. Indian Journal of Pediatrics
- iii. Indian Journal of Child Development

NOTE:**Internal Exam:**

- a) Submission and presentation of Seminars – 10 marks
 - b) Review of literature: Submission and presentation – 1- marks
- (Papers will have separate passing head for theory exam and internal evaluation 32+8=40)

NEW/REVISED SYLLABUS FOR
M.Phil./Ph.D. Course Work
(Introduced from June 2024 onwards)

Paper-III

Title of paper: Thrust Areas for Research in Textile and Clothing
(Paper No. IV)

Course Outcomes: The students will enable to-

1. Understand the importance of Technical textiles and evaluate the sustainability in the field of Technical textiles
2. Investigate the potentiality of recycling in sustainable technical textiles.
3. Understand the importance of non-conventional fibres
4. Acquire the knowledge about traditional textiles, costumes and embroideries and its application
5. Apply Fashion CAD software in design development

Module 1: Introduction to Technical Textiles

15 lectures
(20 marks)

- 1.1 Introduction, definition and scope of Technical textiles, Classification-Mobitech, Indutech, Medtech, Homitech, Clothtech, Agrotech, Buildtech, Sportstech, Packtech, Geotech, Protech, Ecotech and various applications
- 1.2 Growth and development, Future of Technical textiles, Global Technical textiles market, Indian Technical textiles market

Module 2: Non-Conventional fibres

15 lectures
(20 marks)

- 2.1 Introduction, Definition and scope of Non-conventional fibres,
- 2.2 Importance of Non-Conventional fibres, Its advantages and disadvantages,
- 2.3 Types-Banana, Flax, Jute, Kenaf, Sugarcane, Pina, Ramie, Bamboo, Soy, Nettle, Mulberry, Hop, Okra, Agave, Sabai grass. Properties and uses of non-conventional fibres

Module 3 :

15 lectures
(20 marks)

- 3.1 Functional clothing-Definition and classification
- 3.2 Traditional textiles, Clothing and Embroideries and its application

3.3 Fashion and apparel designing

Module 4:

**15lectures
(20 marks)**

4.1 Computer Aided Textile Designing and Fashion Designing. Application of Fashion CAD software in design development, Application of Garment CAD software in pattern making:

4.2 Value addition, Entrepreneurship development in Textile, Clothing and Fashion designing,

4.3 Ministry and Policies related to Textiles

Basic Readings:

1. Computer Aided Drafting and Design: Concept and Application: Veisinet, D.D.
2. CAD in Clothing and Textile: Aidrich, W.

Advance Readings:

1. Sample Fashion Merchandising,: Stone McGraw Publishing house.
2. National Textile Policy, 2000.
3. Textile Processing and Auxiliaries. : Subhodh Kumar Aggarwal
4. Weaving Technology: Kulkarni M.M, Vrinda Publication, Jalgaon.
5. Handloom weaving Amalsar, D.M.
6. Fabric structure and cloth analysis. : Amalsar, D.M.
7. Weaving mechanism, Ahmedabad. : Aswari, K.T.

Reference Books :

1. Textile Testing and Analysis, Billie, J. Colier and Helen H. Epps Precice Hall, New Jersey.
2. Principles of Textile Testing, Booth : J.E Newness Butter Worth, London.
3. Textile Testing.: John, H. Skinikie
4. Ecology and Textile: Shenai V.A., Sevak Publication.
5. Toxicity of dyes and intermediates:
6. Shenai V.A Azo dyes – Facts and figures:

7. M. Sfiligoj Smole, S. Hribernik, K. Stana Kleinschek and T. Kreže, Plant Fibres Textile and Technical Applications
8. <https://www.intechopen.com/chapters/44744>

Journals

- i. Asian Journal of Home Science
- ii. Indian Journal of Textile and Clothing

NOTE:

Internal Exam:

- a) Submission and presentation of Seminars – 10 marks
- b) Review of literature: Submission and presentation – 1- marks

(Papers will have separate passing head for theory exam and internal evaluation 32+8=40)

**NEW/REVISED SYLLABUS FOR
M.Phil./Ph.D. Course Work (Introduced
from June 2024 onwards)**

Paper-III

**Title of paper: Trust Areas for Research in Home Science Extension
Education (Paper No. V)**

Course Outcome: The students will enable to

1. Understand the role of SHG in empowerment of women
2. Evaluate Extension education programmes to reach to society
3. Gain knowledge on various Government policies, and programmes for development of women entrepreneur
4. Understand objectives and principles of community development programmes

Module 1:

**15 lectures
(20 marks)**

- 1.1 Self Help Group (SHG) and rural development with special reference to social and economic development.
- 1.2 Women empowerment through SHG. Local organizations and rural development i.e. Anganwadi, PHC, Panchayat raj system. Co-operative society, Mahila Mandal, Krishi Vikas Kendra. Its participation and Assessment.

Module 2:

**15 lectures
(20 marks)**

- 2.1 Evaluation of Extension Education Programmes / Schemes - related to Home Science.
- 2.2 Dynamics of communication application in Home Science research. Use of audio-visual aids in communication.

Module 3:

**15 lectures
(20 marks)**

- 3.1 Government policies, and programmes for development of women entrepreneur.
- 3.2 Self employment and Entrepreneurship development through Home Science education. Gender discrimination and its impact on community development. Laws for women

Module 4:**15 lectures
(20 marks)**

4.1 Programmes for rural / community development – Gram Swachnata Abhiyan and Nirmal Gram Yojana, Kanya Bachav Mohim.

4.2 Disaster Management - Natural and Manmade calamities, its management.

Basic Readings:

1. Textbook of Extension Education Dr. S. V. Supe
2. Extension and Community Development Directorate of Extension Govt. of India, New Delhi
3. Co. op. Extension work Kelse A Hearue.
4. Extension Education Ranjeet Singh.
5. Hand Book of Extension Education Choube
6. Social Change in Rural Sociology Rogers

Advance Readings:

1. Extension and Rural Development O. P. Dhama
2. Extension Education for Community Development Dhama O.P. and Bhatnagar
3. Extension Communication and Management by Ray.

Reference Books:

1. Rural Sociology, Samat
2. Rural Social Organisation, Sandadron.

Journals

- Asian journal of Home Science
- Maharashtra Journal of Extension Education
- Asian journal of Extension Education
- Maharashtra Journal of Agricultural Research Technology

NOTE:**Internal Exam:**

- a) Submission and presentation of Seminars – 10 marks
- b) Review of literature: Submission and presentation – 1- marks

(Papers will have separate passing head for theory exam and internal evaluation $32+8=40$)