

**CHHATRAPATI SHAHU JI MAHARAJ UNIVERSITY  
KANPUR**



**Four Year Undergraduate Programme (FYUP)**

**HOME SCIENCE**

**Syllabus of**

**4 YEAR B.A. (HONOURS)**

**4 YEAR B.A. (HONOURS WITH RESEARCH)**

**AND**

**4+1 YEAR (B.A. HONOURS/ B.A. HONOURS WITH  
RESEARCH + M.A.) IN HOME SCIENCE**

**SESSION 2025-2026 ONWARDS**

**NATIONAL EDUCATION POLICY-2020**

**CURRICULUM & CREDIT FRAMEWORK**  
**FOR**  
**FOUR YEAR UNDERGRADUATE PROGRAMME (FYUP)**

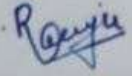
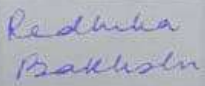
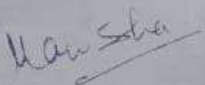
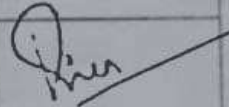
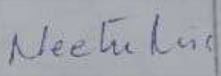
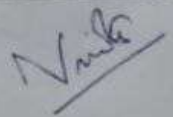
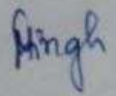

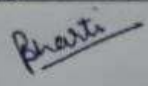
**SUBJECT: HOME SCIENCE**

EFFECTIVE FROM SESSION: 2025-26



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This draft of the **Curriculum & Credit Framework** for the **Four Year Undergraduate Programme (FYUP) in Home Science**, based on the **National Education Policy (NEP) -2020**, has been finalised in the Board Of Studies meeting Convened by Chhatrapati Shahu Ji Maharaj University, Kanpur, in accordance with the guidelines issued by the University Grant Commission and the Government of Uttar Pradesh and will be **Effective From the Academic Session 2025-26**. The Board Of Studies meeting was held under the **Convenership of Prof.Ranju Kushwaha**, Juhari Devi Girl's Post Graduate College, Kanpur, in Hybrid Mode on 28th May 2025.

S.No.	Name	Designation	Signature
1	Prof.Ranju Kushwaha ,Deptt.of.Home Science, Juhari Devi Girls P. G.College, Kanpur ,Uttar Pradesh.	Convener	
2	Prof.Radhika Bakhshi ,Director, Institute of Home Science, Delhi University,Delhi .	Member	
3	Prof.Manisha Gehlot,HOD,Deptt.of Apparel and Textile Science, College of Community Science,GB Pant University of Agriculture & Technology ,Pantnagar,Uttarakhand.	Member	
4	Prof.U.V.Kiran,Dean,School of Home Science , Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh	Member	
5	Prof. Neetu Mishra,Head,Deptt.of .Family and Community Science (Home Science) Allahabad University, Prayagraj,Uttar Pradesh	Member	
6	DR. <del>Vinita</del> Singh ,Deptt.of Food Science and Nutrition, College of Community Science, CSAUniversity of Agriculture and Technology, Kanpur, Uttar Pradesh	Member	
7	Prof.Nirmaala Singh,Deptt. of .Home science Jwala Devi Vidhya Mandir P.G. College, Kanpur ,Uttar Pradesh	Member	
8	Prof.Anupama Kumari,Deptt.of Home Science, Kanpur Vidhya Mandir <del>Mahila Mahavidyalaya</del> kanpur , Uttar Pradesh	Member	
9	DR.Bharti Pandey ,Deptt.of Home Science A.N.D.N.N.M.Mahavidyalaya, Kanpur ,Uttar Pradesh	Member	

Date:28th May 2025

Place:Kanpur ,Uttar Pradesh

Link:<https://meet.google.com/nsu-jug>

CURRICULUM & CREDIT FRAMEWORK FOR FYUP IN HOME SCIENCE		
CURRICULUM DEVELOPED BY CONVENER & MEMBERS OF B O S		
Name of Convener	Subject	College
Prof.(Dr.) Ranju Kushwaha	Home Science	Juhari Devi Girls' P.G .College Canal Road, Kanpur Uttar Pradesh

B.A. First Year: Certificate in Faculty					
Year	Semester	Paper code	Paper Titles	Theory/ Practical	Credits
B.A. 1	I	A130101T	Fundamentals of Nutrition and Human Development	Theory	4
	I	A130102P	Cooking Skills and Healthy Recipe Development	Practical	2
	II	A130201T	Introduction to Clothing and Textile & family Resource Management	Theory	4
	II	A130202P	Clothing and Textile	Practical	2

B.A. Second Year: Diploma in Faculty					
Year	Semester	Paper Code	Paper Topics	Theory/ Practical	Credits
B.A.2	III	A130301T	Advanced Nutrition and Human Developments.	Theory	4
	III	A130302P	Human Development	Practical	2
	IV	A130401T	Housing and Extension Education	Theory	4
	IV	A130402P	Resource Planning and Interior Decoration	Practical	2
	IV	A130403R	Research Project /Internship/Field Work/Survey	Research Project	3

- At the Undergraduate level, during the fourth semester or after the second year, It will be Mandatory for the students to do a Research Project /Internship/ Fieldwork /Survey Work of 3 credits related to any one of the two major subjects selected by the students ,preferably in the summer vacation

<b>B.A Third Year: Graduation Degree in Faculty</b>					
Year	Semester	Paper Code	Paper Topics	Theory/ Practical	Credits
B.A.3	V	A130501T	Surface Ornamentation of Fabrics	Theory	4
	V	A130502T	Community Development and Programme Planning	Theory	4
	V	A130503P	Community Transformation	Practical	2
	VI	A130601T	Dietetics and Therapeutic Nutrition	Theory	4
	VI	A130602T	Research Methodology & Gender Development	Theory	4
	VI	A130603P	Therapeutic Diet Preparation and Nutrient Calculation	Practical	2

<b>B.A. Fourth Year: Graduation with Honours in Home Science</b>					
Year	Semester	Paper Code	Paper Titles	Theory /Practical	Credits
B.A.4 Degree With Honours	VII	A130701TN	Advanced Nutrition and Institutional Management	Theory	4
	VII	A130702TN	Fashion Design and Traditional Textiles	Theory	4
	VII	A130703TN	Extension Management and Community Development	Theory	4
	VII	A130704TN	Research Methodology	Theory	4
	VII	A130705PN	Design Ideas for a Sketching and Traditional Textiles and Extension Education	Practical	4
	VIII	A130801TN	Therapeutic Management and Community Nutrition	Theory	4
	VIII	A130802TN	Advanced Resource Management and Interior Design	Theory	4
	VIII	A130803TN	Human Development and Behavioral theories	Theory	4
	VIII	A130804TN	Gender Sensitization for Women Empowerment	Theory	4
	VIII	A130805PN	Therapeutic Diet Preparation & Family Resource Management	Practical	4

**OR**

<b>B.A. Fourth Year: Graduation Degree (Honours with Research) in Home Science</b> <ul style="list-style-type: none"> <li>• B.A. Honours with Research only those students will be eligible who have Secure more than 75% Marks in the First 6 Semesters.</li> </ul>						
Year	Semester	Paper code	Paper Titles	Theory/ Practical	Research Project /Dissertation/ field work	Credits
B.A.4 Degree Honours with Research	VII	A130701TN	Advanced Nutrition and Institutional Management	Theory	-	4
	VII	A130702TN	Fashion Design and Traditional Textiles	Theory	-	4
	VII	A130703TN	Research Methodology	Theory	-	4
	VII	A130704PN	Design Ideals for Sketching and Traditional Textiles	Practical	-	4
	VII	A130705RN	Research Project/Dissertation/	Progressive	1	4
	VIII	A130801TN	Therapeutic Management and Community Nutrition	Theory	-	4
	VIII	A130802TN	Advanced Resource Management and Interior Decoration	Theory	-	4
	VIII	A130803TN	Human Development and Behavioral Theories	Theory	-	4
	VIII	A130804PN	Therapeutic Diets Preparation and Family Resource Management	Practical	-	4
	VIII	A130805RN	Research Project/Dissertation	Submitted	1	4

FIFTH YEAR (4+1): Master in Home Science						
Year	Semester	Paper Code	Paper Titles	Theory/ Practical	Research Project /Dissertation/ field work	Credits
M.A. 4+1 Master In Faculty	IX	A130901TN	Family Clothing and Apparel Construction	Theory	-	4
	IX	A130902TN	Food Science and Quality Control	Theory	-	4
	IX	A130903TN	Application Of Statistics for Research	Theory	-	4
	IX	A130904PN	Garment Construction	Practical	-	4
	IX	A130905R N	Research Project/Dissertation	Progressive	1	4
	X	A131001TN	Advanced Human Development	Theory	-	4
	X	A131002TN	Advanced Housing & Ergonomics	Theory	-	4
	X	A131003TN	Communication for Development	Theory	-	4
	X	A131004PN	Field Based Learning: Community Interaction and Interior Design	Practical	-	4
	X	A131005R N	Research Project/Dissertation	Submitted	1	4

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**PROPOSED YEAR AND SEMESTER WISE CURRICULUM & CREDIT FRAMEWORK  
FOR  
FOUR YEAR UNDERGRADUATE PROGRAMME (FYUP) IN HOME-SCIENCE  
&  
4+1 YEAR (B.A. Honours & Honours with Research +M.A.) in HOME SCIENCE**

Programme Outcomes (POs):

- The program has been framed in such a manner that students receive a real feel of quality education by touching all aspects of the human life cycle.
- Designed to enhance the capacity of students to understand universal and domain-specific values in Home Science.
- Develop the ability to address the complexities and interface among self, societal and national priorities Inculcate both generic and subject-specific skills to succeed in the employment market and standards of life Promote research, innovation and design (product) development favoring all the disciplines in Home Science.
- This program develops a scientific and practical approach among the students which helps in their day to day life.

**CERTIFICATE IN FACULTY  
B.A. I Semester I Home Science Paper - 1  
Fundamentals of Nutrition and Human Development (Theory)**

Certificate in Faculty	Year: 1	Semester: I
Subject: Home Science		
Course Code: A130101T	Course Title:-Fundamentals of Nutrition and Human Development	
<b>Course outcomes:</b> The student at the completion of the course will be able to: <ul style="list-style-type: none"><li>• Prepare the students to understand physiology based courses</li><li>• Students will get familiar with different methods of cooking</li><li>• Acquaint students with practical knowledge of nutrient rich foods</li><li>• Explain the need and importance of studying human growth and development across life span</li><li>• Identify the biological and environmental factors affecting human development.</li><li>• Learn about the characteristics, needs and developmental tasks of infancy &amp; early childhood years</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of Lectures-60		
Units	Topics	No of Lectures
PART-A		

<b>I</b>	Traditional Home Science and its Relevance in Current era Contribution made by Indian Institutions like ICMR, CFTRI, NIPCCD etc.	03
<b>II</b>	Cell and Digestive System Respiratory and Cardiovascular System	10
<b>III</b>	Food and Nutrition Food- Meaning, Classification and function Nutrition- Concept of Nutrition Nutrients-Macro and Micro, Sources and Deficiency Diseases.	09
<b>IV</b>	Cooking Methods- Methods, Advantages and Disadvantages Preservation of Nutrients While Cooking	08
<b>PART -B</b>		
<b>V</b>	Introduction to Human Development: <ul style="list-style-type: none"> <li>● Concept, Definition and need to study of Human Development</li> <li>● Domains, Stages and contexts of development</li> <li>● Principles of Growth and Development</li> <li>● Determinants of Development- heredity and environment</li> </ul>	08
<b>VI</b>	Prenatal Development and Birth Process: <ul style="list-style-type: none"> <li>● Conception, Pregnancy and Childbirth</li> <li>● Stages of birth</li> <li>● Types of delivery (natural, c-section, breech, home vs. assisted delivery)</li> <li>● Physical Appearance and capacities of the new-born</li> <li>● Factors affecting Prenatal Development.</li> </ul>	06
<b>VII</b>	Infancy: <ul style="list-style-type: none"> <li>● Developmental tasks during Infancy and Preschool Stage.</li> <li>● Physical and Motor Development.</li> <li>● Social and emotional development</li> <li>● Cognitive and language development</li> </ul>	08
<b>VIII</b>	Early Childhood (Pre School) Years: <ul style="list-style-type: none"> <li>● Developmental Tasks During Early childhood.</li> <li>● Physical and Motor Development</li> <li>● Social and Emotional Development</li> <li>● Cognitive and Language Development</li> </ul>	08

**Suggested Readings:**

- Dr. Brinda Singh, Manav Sharir      evam Kriya Vigyan Panchsheel Prakashan, Jaipur;2015 ,15<sup>th</sup> Ed.
- Chatterjee, C.C , “Human Physiology” Medical Allied Agency ; Vol I , II .
- Text Book of Biology for 10+2 Students (NCERT)
- Sumati R Mudami, “Fundamentals of food Nutrition and Diet Therapy” , New Age International Pvt. Ltd, New Delhi , 6<sup>th</sup> Ed. (2018)
- Punita Sethi and Poonam Lakda , “Aahar Vigyan, Suraksha evam Poshan” ; Elite Publishing House, New Delhi ;2015
- Berk, L.E. *Child development* New Delhi: Prentice Hall (2005) (5th ed.).
- Berk L.E. *Child Development* Allyn and Bacon 1992 (6th) Edition.
- Keenan, T., Evans, S., & Crowley, K. *An introduction to child development*, Sage (2016)
- Hurlock E. *Child Development*.
- Aadhunik Vikasatmak Manovigyan , Shri Vinod Pustak Mandir Agra Edition 3<sup>rd</sup> 2015
  - Suggestive digital platforms web links-ePG-Pathshala, IGNOU & UPRTOU online study material
- Svayam Portal <http://heecontent.upsdc.gov.in/Home.aspx>

This course can be opted as an elective by the students of following subjects: Open for all  
The eligibility for this paper is 10+2 with any subject

**Suggested Continuous Evaluation Methods:**

- Seminar/ Presentation on any topic of the above syllabus
- Test with multiple choice questions/ short and long answer questions
- Attendance

Course prerequisites: To study this course, a student must have had the subject ALL in class12<sup>th</sup>.  
The eligibility for this paper is 10+2 with any subject

**Further Suggestions:**

It widens the scope for students to join Government and Non-Government organization upskilling the people at different levels as per their socio-economic structure.

At the End of the whole syllabus any remarks/ suggestions:

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**B.A. I Semester I Home Science Paper- 2**  
**Cooking Skills and Healthy Recipe Development (Practical)**

Certificate in Faculty	Year: 1	Semester: I
Subject: Home Science		
Course Code: A130102P	Course Title: Cooking Skills and Healthy Recipe Development	
<b>Course outcomes:</b> <ul style="list-style-type: none"><li>Students will get familiar with different methods of cooking</li><li>Acquaint students with practical knowledge of nutrient rich foods</li></ul>		
Credits: 2		Core Compulsory
Max. Marks : 25+75		Min. Passing Marks : –
Total No. of Lab Periods-30 (60 hours)		
Units	Topics	No. of Lab. Periods
I	Basic Cooking Skills <ul style="list-style-type: none"><li>Weighing of raw materials</li><li>Preparing of different food items before cooking</li></ul>	06
II	Preparation of Various Dishes Using Different Methods of Cooking <ul style="list-style-type: none"><li>Boiling /steaming</li><li>Roasting</li><li>Frying – Deep/shallow</li><li>Pressure cooking</li><li>Hot air cooking/Baking</li></ul>	08
III	Different Styles of Cutting Fruits and Vegetables <ul style="list-style-type: none"><li>Salad Decoration/Dressings</li></ul>	06
IV	Preparation of Nutrient Rich Dishes <ul style="list-style-type: none"><li>Protein rich dish</li><li>Carbohydrate rich dish</li><li>Fat rich dish</li><li>Vitamins rich dish</li><li>Minerals</li><li>Fibers</li></ul>	08
<b>Suggested Readings:</b> <ul style="list-style-type: none"><li>Dr. Brinda Singh, <i>Manav Sharir evam Kriya Vigyan</i> Panchsheel Prakashan, Jaipur, 2015 - 15th Ed.</li><li>Chatterjee, C.C. “Human Physiology” Medical Allied Agency ; Vol I , II .</li><li>Text Book of Biology for 10+2 Students (NCERT)</li><li>Suman M. Mukhopadhyay, “Fundamentals of Food Nutrition and Diet Therapy”, New Age International Pvt. Ltd. New Delhi , 6th Ed. (2018)</li><li>Punita Sethi and Poonam Lakda, “Aahar Vigyan, Suraksha evam Poshan”, Elite Publishing House, New Delhi - 2015</li></ul>		
This course can be opted as an elective by the students of following subjects: Open for all		

<p>.....</p>
<p><b>Suggested Continuous Evaluation Methods:</b></p> <ul style="list-style-type: none"> <li>• Test with multiple choice questions/short and long answer questions <ul style="list-style-type: none"> <li>• Menu planning and calculation of nutrient requirement</li> <li>• Nutritive value calculation of various nutrient rich dishes</li> </ul> </li> </ul>
<p><b>Course prerequisites:</b></p> <p>To study this course, a student must have had the subject ..... in class/12th/certificate/diploma.</p> <p>.....</p>
<p><b>Suggested equivalent online courses</b></p> <ul style="list-style-type: none"> <li>• IGNOU and other centrally/state operated Universities/MOOC platforms such as “SWAYAM” and in Hindi at :  <a href="https://heecontent.upsdc.gov.in/Home.aspx">https://heecontent.upsdc.gov.in/Home.aspx</a> </li> </ul>
<p><b>Further Suggestions:</b></p> <p>Students may develop their cooking skills with new healthy recipe development after completion of this course and even start their own food service center.</p>

**B.A. I Semester II Home Science Paper -1**  
**Introduction to Clothing & Textiles & Family Resource Management (Theory)**

Certificate in Faculty	Year: 1	Semester: II
Subject: Home Science		
Course Code: A130201T	Course Title: Introduction to Clothing and Textiles & Family Resource Management (Theory)	
Course outcomes: <ul style="list-style-type: none"><li>● Learn about scope of textile and clothing</li><li>● Understanding why fabrics are different</li><li>● Learn how fabrics can be manufactured</li><li>● Understand basic clothing concepts and garment making</li><li>● Learn the family resource management as a whole.</li><li>● Understand the Decision making and use of resources throughout the Family life cycle.</li><li>● Gain knowledge about Time, Money &amp; Energy as a Resource.</li><li>● Appreciate Household Equipments for work simplification</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of Lectures- 60		
Unit	Topics	No. of Lectures
PART -A		
I	<b>Introduction</b> a) Introduction to Clothing and Textile b) Its importance in day-to-day life c) Scope. d) Classification of textile fiber on the basis of their source e) General properties of fibers- primary and secondary	7
II	<b>Knowing Fibers</b> -Manufacture, processing, properties and uses of a) Cellulosic Fibers-cotton, Linen b) Protein Fibers-Wool, Silk c) Synthetic/Manmade fibers-Nylon, Polyester, Acrylic, Rayon.	8
III	<b>Yarn to Fabrics</b> a) Definition of Yarn, Manufacture of Yarn and Yarn Properties. b) Different fabric, Construction techniques (Weaving, Knitting, Felting, Braiding, Non-woven) c) Weaving of Cloth-Terminologies and Steps in Weaving. d) Types of weaves- Basic and Decorative	8
IV	<b>Clothing Construction</b> a)Tools for Clothing construction b) Introduction to sewing machines, its parts and maintenance, c) Importance of Drafting, Draping, Flat pattern techniques - advantages & disadvantages d) Fabric preparatory steps for stitching a garment - preshrinking, straightening, layout, pinning, marking and cutting.	7
PART -B		

<b>V</b>	<b>Introduction to Home Management:</b> Basic Concepts, Purpose and Obstacles of Management. Process of Management – Planning, Organizing, Controlling and Evaluation. Motivating Factors in Management – Values, Goals and Standards – Definition and Classification.	8
<b>VI</b>	<b>Resources, Decision making &amp; Family life cycle:</b> Meaning, Characteristics, Types and Factors affecting the use of Resources. Steps and Role of Decision Making in Management. Stages of Family Life Cycle.	8
<b>VII</b>	<b>Time, Energy and Money Management:</b> Time as a Resource, Steps in making Time Plan, Tools and Aids in Time Management. Energy as a Resource, Work Curve, Fatigue- Types, Causative Factors and Alleviating Techniques. Family income as a Resource, Sources of Income and Expenditure and Saving. Preparation of Family budget in view of family income.	7
<b>VIII</b>	<b>Work Simplification and Household Equipments:</b> Meaning and Techniques of Work Simplification, Mundell’s Classes of Change. Principle, Use and Care of Household Equipments such as Pressure Cooker, Mixer and Grinder, Refrigerator, Washing Machine, Vacuum Cleaner & Solar Cooker.	7

**Suggested Readings:**

- Colbmen P Bernard: Textiles Fiber To Fabric
- Hollen & Saddler: Introduction To Textile
- Joseph M: Introduction To Textiles
- Trotman: Textile Fiber Science Cutting Tailoring And Dress Making: National open School, B-31-B Kailash Colony, New Delhi – 1100048.
- Khanuja, Reena (2018) Grah Vyavastha avam Grah Sajja. Agrawal Publications, Agra ISBN: 978-93-81124- 96-3
- R Bhatia & C Arora (1999), Introduction To Clothing And Textile, Printed by Macho Printery, Raopura, Baroda.
- Complete Guide To Sewing By Reader’s Digest: published by The Reader’s Digest Association (Canada) Ltd. Montreal-Pleasantville, NY, 2002.
- Deacon R.E. and Firebaugh F.M. (1998) Family Resource Management Principles and application. N. Delhi.: Roy Houghton Mifflin Company.
- Faulkner, R. & Faulkner, S. (1961) Inside Today’s Home. Rev. ed. © Holt, Rlnehart & Winston, Inc.
- Gross, I.H. and Crandall, E.H. (1967). Management for Modern Families. N. Delhi: Sterling Publishers Ltd?
- Moorthy G. (Ed.). (1985). Home Management. N. Delhi.: Arya Publishers, Mullick, P. Text book of Home science. Ludhiana.: Kalyani Publishers.
- Nickell, P., and Dorsey, J, M. (2002). *Management in Family Living*. New Delhi: CBS Publishers (ISBN13: 9788123908519)
  - Patni Manju & Sharma Lalita, Grah Prabandh, Star Publications Agra.
  - Varma , Pramila. Vastra Vigyaan Avam Paridhan:Madhya Pradesh Hindi Granth Academy,Bhopal.
- Varghese, M. A, Ogale, N. N and Srinivasan, K. (2001). Home Management. New Delhi. New Age International (P) Ltd.
- Varghese, M.A. Household Equipment Manual, S.N.D.T Women’s University, Mumbai.
- Suggestive digital platforms web links- Svayam Portal,

<http://heecontent.upsdc.gov.in/Home.aspx>

This course can be opted as an elective by the students of following subjects: Open for all

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Suggested Continuous Evaluation Methods:

- Seminar on any topic of the above syllabus.
- Test with multiple choice questions/ short and long answer questions.
- Attendance

Course prerequisites: To study this course, a student must have had the subject ALL in class12<sup>th</sup>.

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**B.A. I Semester II Home Science Paper -2**  
**Clothing & Textiles (Practical)**

Certificate in Faculty	Year: 1	Semester: II
Subject: Community and Life Science		
Course Code: A130202P	Course Title: Clothing and Textiles (Practical)	
Course outcomes: <ul style="list-style-type: none"><li>● Ability to identify fibers and fabrics</li><li>● Understanding why fabrics are different</li><li>● Learning basic Sewing skills</li><li>● Learn how garments are stitched</li></ul>		
Credits: 2		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of lab. periods- 30 (60 hours)		
Units	Topics	No. of Lab. periods
I	<b>Identify Fibers and Fabrics</b> a)Fibre Identification Tests- Visual Burning and Microscopic- Natural and Manmade fibers. b) Weaves identification and understanding their usage.	7
II	<b>Learning to Stitch</b> a) Knowing how to stitch-an idea of straight-line stitching, stitching on curves and at corners . b) Basic Stitching-Temporary Stitching, Permanent and decorative stitching.	7
III	<b>Basic Sewing</b> a) Seams-Plain seams and its finishing, run & fell seam, French seam . b) Attaching different Fasteners .	8
IV	<b>Preparing A Line Frock</b> a)Basic bodice block & Sleeve block (2years) b)Methods of body measurements c)Drafting and Cutting of A line frock (2years)	8
<ul style="list-style-type: none"><li>● Complete Guide to Sewing by Reader's Digest: published by The Reader's Digest Association (Canada) Ltd. Montreal-Pleasantville, NY, 2002.</li><li>● Helen J Armstrong, Patternmaking for Fashion Design, Prentice Hall</li><li>● Gerry Cooklin, Introduction to Clothing Manufacture, Blackwell Science, UK, 1991</li><li>● Metric Pattern cutting &amp; Grading by Winfred Aldrich.</li><li>● Khanuja, Reena. Vastra Vigyaan ke Sidhant, Agrawal Publication, Agra.</li></ul> <p>1. Suggestive digital platforms web links- Svayam Portal, <a href="http://heecontent.upsdc.gov.in/Home.aspx">http://heecontent.upsdc.gov.in/Home.aspx</a></p>		

<p>This course can be opted as an elective by the students of following subjects: Open for all  .....</p>
<p>Suggested Continuous Evaluation Methods:</p> <ul style="list-style-type: none"> <li>● Preparation of samples of various types on fabrics.</li> <li>● Evaluation of Prepared garment.</li> <li>● Record file preparation and evaluation, Attendance.</li> </ul>
<p>Course prerequisites: To study this course, a student must have had the subject ALL in class 12<sup>th</sup>.</p>

**DIPLOMA IN FACULTY**  
**B.A. 2 Semester III Home Science Paper -I**  
**Advanced Nutrition and Human Development (Theory)**

Diploma in Faculty	Year: 2	Semester: III
Subject: Home Science		
Course Code: A130301T	Course Title: Advance Nutrition and Human Development (Theory)	
<b>Course outcomes:</b> The student at the completion of the course will be able to: <ul style="list-style-type: none"><li>● Create an awareness about importance of healthy meal at various stages of life cycle</li><li>● Inculcate healthy eating practices among students</li><li>● Develop skill of meal planning for different physiological groups</li><li>● Explain the Physical &amp; Psychological changes during middle childhood, adolescent and adulthood stage.</li><li>● Identify the biological and environmental factors affecting personality.</li><li>● Learn about the characteristics, needs and developmental tasks of Middle childhood years, Adolescent &amp; Adulthood stage.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of Lectures-60		
Units	Topics	No.of Lectures
PART-A		
I	Meal Planning- Definition , Importance , Factors affecting meal planning , Balanced Diet , RDA	07
II	Nutrition During Infancy and Childhood- Nutrition Requirement, RDA and Diet Plan	07
III	Nutrition During Adolescence, Adulthood and Old Age. Nutrition Requirement, RDA and Diet Plan	08
IV	Nutrition During special condition pregnancy and lactation Nutrition Requirement, RDA and Diet Plan.	08
PART B		
V	Middle Childhood Years Developmental tasks and characteristics of middle childhood period <ul style="list-style-type: none"><li>● Physical and motor development</li><li>● Social &amp; emotional development</li><li>● Cognitive development</li><li>● Language development</li></ul>	08

VI	Puberty and Adolescence <ul style="list-style-type: none"> <li>• Development tasks and characteristics</li> <li>• Significant Physical physiological and hormonal changes in puberty.</li> <li>• Self and Identity, Factors influencing Identity &amp; Personality development.</li> <li>• Family and peer relationship</li> </ul> Problems – Drug and Alcohol abuse, STD, HIV/AIDS, Teenage Pregnancy.	8
VII	Cognitive, Language and Moral Development during Adolescence: <ul style="list-style-type: none"> <li>• Perspective on cognitive development, development of intelligence and Creativity</li> <li>• Adolescent language</li> <li>• Adolescent Morality</li> </ul>	7
VIII	Introduction to Adulthood: <ul style="list-style-type: none"> <li>• Concept, transition from adolescence to adulthood</li> <li>• Developmental tasks of Adulthood</li> <li>• Physical and physiological changes from young adulthood to late adulthood</li> </ul> Responsibilities and adjustments-educational, occupational, marital and parenthood	7
<ul style="list-style-type: none"> <li>• <b>Suggested Readings:</b></li> <li>• Sheel Sharma , “Nutrition and Diet Therapy, Peepee Publishers , New Delhi ; 2014</li> <li>• Ankita Gupta “ Text book of Nutrition” Medico Refresher Publisher, Agra, 2018</li> <li>• Subhangini A Joshi; Nutrition and Dietetics, McGraw Hill Education, Private Ltd.</li> <li>• Kumud Khanna, “Text book of Nutrition and Dietetics”, Elite Publishing House Pvt. Ltd, New Delhi, 2013, 7<sup>th</sup> Ed.</li> <li>• Swaminathan M, " Essentials of Food and Nutrition Vol I and II</li> <li>• Monaster G.J. 1 Adolescent Development Life Tasks. Mcgraw Hill (1977).</li> <li>• Ambron S.R. Child Development Holt, Rinehart and Winston 1978 (IInd Edition).</li> <li>• Mussen P.H. Conger J.J. Kagan J and Huston A.C. 1990. Child Development and Personality (VI Edition) Harper and Row Publishers New York.</li> <li>• Boeknek G. Human Development Brook and Cole Publishing Company 1980.</li> <li>• Aadhunik Vikasatmak Manovigyan , Shri Vinod Pustak Mandir Agra Edition 3<sup>rd</sup> 2015</li> <li>• Harpalani. Aahar Vigyaan evam Upcharatmak Poshan, Star Publications ,Agra.</li> <li>• Suggestive digital platforms web links- IGNOU &amp; UPRTOU online study material</li> </ul> <p>Svayam Portal, <a href="http://heecontent.upsdc.gov.in/Home.aspx">http://heecontent.upsdc.gov.in/Home.aspx</a></p>		
<b>Suggested Continuous Evaluation Methods:</b> <ul style="list-style-type: none"> <li>• Seminar on any topic of the above syllabus.</li> <li>• Test with multiple choice questions/ short and long answer questions.</li> <li>• Attendance</li> </ul>		
Course prerequisites: To study this course, a student must have had the subject _____ in class/12 <sup>th</sup> / certificate/diploma. .....		

**Suggested equivalent online courses:**

- IGNOU and other centrally/state operated Universities/MOOC platforms such as “SWAYAM” in India and abroad

**Further Suggestions:**

Students can opt. dietitian, nutrition advisor/ Nutritionist as a career in private and government sector as well as extend knowledge by joining advance course in same discipline.

It widens the scope for students to join Government and Non-Government organization upskilling the people at different levels as per their socio-economic structure.

At the End of the whole syllabus any remarks/ suggestions:

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**B.A. 2 Semester III Home Science Paper -2**  
**Human Development (Practical)**

Diploma in Faculty	Year: 2	Semester: III
Subject: Home Science		
Course Code: A130302P	Course Title: Advance Human Development (Practical)	
Course outcomes: <ul style="list-style-type: none"><li>● Learn to cope up with adolescent and adulthood problems.</li><li>● Understand and handle development related issues more efficiently.</li><li>● Able to know human behaviour.</li><li>● Understand individual differences.</li></ul>		
Credits: 2	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks : –	
Total No. of lab.periods-30(60 hours)		
Units	Topics	No. of lab periods
I	Preparation of an album on developmental milestones of children.  OR Prepare child literature. Visit to Child Care Centers/ anganwadi	80
II	Study of physical, social, emotional, cognitive, language development (any two). Observations of child rearing practices in families from different social classes	8
III	Interviews of adolescent girls and boys to understand their life style, behaviour and problems.	7
IV	Carry out case studies to know more about the different life stages, e.g., school going children, adolescents, Young adults. (any two)	7

**Suggested Readings:**

1. Monaster G.J. 1 Adolescent Development Life Tasks. McGraw Hill (1977).
2. Ambron S.R. Child Development Holt, Rinehart and Winston 1978 (2nd Edition).
3. Mussen P.H. Conger J.J. Kagan J and Huston A.C. 1990. Child Development and Personality (VI Edition) Harper and Row Publishers New York.
4. Boeknek G. Human Development Brook and Cole Publishing Company 1980.
5. Aadhunik Vikasatmak Manovigyan, Shri Vinod Pustak Mandir Agra Edition 3<sup>rd</sup> 2015

Suggestive digital platforms web links- ePG- Pathshala, infibnet, IGNOU & UPRTOU online study material.

Svayam Portal, <http://heecontent.upsdc.gov.in/Home.aspx>

This course can be opted as an elective by the students of following subjects: Open for all The eligibility for this paper is 10+2 with any subject

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**Suggested Continuous Evaluation Methods:**

- Assessment of observation report.
- Preparation of a questionnaire.
- Visits Records.
- Attendance.

Course prerequisites: To study this course, a student must have had the subject ALL in class 12<sup>th</sup>. The eligibility for this paper is 10+2 with any subject

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**B.A. 2 Semester IV Home Science Paper- 1**  
**Housing & Extension Education (Theory)**

Diploma in Faculty	Year: 2	Semester: IV
Subject: Home Science		
Course Code: A130401T	Course Title: Housing & Extension Education (Theory)	
Course outcomes: <ul style="list-style-type: none"><li>● Grasp knowledge of Housing need &amp; selection of site in real life situations.</li><li>● Comprehending Housing plans for residential purposes.</li><li>● Appreciate principles of design and the contributing factors to refine personal aesthetic senses.</li><li>● Learn the widening concepts of Extension Education.</li><li>● Develop understanding for Effective teaching and learning.</li><li>● Comprehend the various effective communication methods.</li><li>● Gain skills to use technologically advanced Audio-visual aids.</li></ul>		
Credits: 4	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks : –	
Total No. of Lectures- 60		
Units	Topics	No. of Lectures
PART-A		
I	<b>Housing:</b> Needs of a House, Difference between House & Home, way to acquire house (Own & rented). Factors influencing selection and purchase of house and site for house building.	8
II	<b>House Planning:</b> Principles of house planning, Planning different residential spaces in a house. Planning house for different income groups.	7
III	<b>Interior Designing:</b> Introduction to Interior designing. Importance of good taste. Objective of Interior decoration. Elements of design – Line, Shape, Texture, Color, Pattern, Light & Space. Principle of design- Proportion, Balance, Rhythm, Emphasis, Harmony.	8
IV	<b>Home Decors:</b> Furniture, Furnishings (Curtain, Draperies, Floor coverings, Wall celing, Lighting, Accessories (Wall painting, Mirrors, wall art, Sculpture & Antiques, Flower arrangements) etc.	7
PART B		
V	<b>Extension Education:</b> Meaning, Concepts, Objectives, Scope, Principles, Philosophy of Extension Education.  Early Extension Efforts in India. Formal & Non-formal Education.	8



<b>VI</b>	<b>Extension Teaching &amp; Learning:</b> Role and Qualities of an Extension worker. Steps in Extension Teaching Process, Criteria for Effective Teaching & Learning.	7
<b>VII</b>	<b>Communication &amp; Extension Teaching Methods:</b> Definition, Importance, Characteristics, Elements, Models. Relationship between Communication and Extension Education Extension Teaching Methods- Classification, Factors guiding the Selection & use of Extension teaching methods.	8
<b>VIII</b>	<b>Audio- Visual Aids:</b> Definition, Importance, Classification, Selection, Preparation & Effective use of Audio-visual Aids.	7

#### **Suggested Readings:**

- Khanuja, Reena (2018) Grah Vyavastha avam Grah Sajja. Agrawal Publications, Agra ISBN: 978-93-81124-96-3
- Patni Manju & Sharma Lalita, Grah Prabandh, Star Publications Agra.
- Cherunilam, F., & Hedggade, O. D. (1987). *Housing in India*. Bombay: Himalaya Publishing House.
- Craig, H.T. and Rush, O.D. (1966). *Homes with Character*. Heath, 1966.
- Faulkner, R. & Faulkner, S. (1961) *Inside Today's Home*. Rev. ed. © Holt, Rinehart & Winston, Inc.
- Goldstein. H & Goldstein V. (1954). *Art in Everyday Life* Macmillan Publishers.
- Rutt, A.H. (1963) *Home furnishing*. John Wiley & Sons, Inc.;
- Supriya, K.B. (2004). *Landscape gardening and designing with plants*. Pointer Publishers.
- Teresa, P. Lanker. (1960). *Flower Arranging: Step-by-step Instructions for Everyday Designs*. Florist Review
- Aggarwal, R. (2008). "Communication- today and tomorrow", New Delhi.: Sublime Company
- Dubey V.K, Srivastava Archana, Agrawal Garima, Grah Vigyan Prasara Avam Sampreshan. Star Publications Agra.
- Harpalni B.D. Patni. Manju, (Prasar Shiksha Evam Sanchar) Star Publications, Agra. ISBN 978-93-81246
- Shaw Geeta Pushp, Shaw Jois Sheela, Prasar Shiksha, Vinod Pustak Mandir Agra. ISBN 81-7457-104-3
- Dahama, O.P., & Bhatnagar, O.P. [1998]. "Education and Communication for Development". New Delhi. - Oxford and IBH Publishing Co. Pvt.Ltd.
- Jaipal Singh." Prasar Shiksha avam Gramin Vikas" SR Scientific Publications, Agra
- Reddy, A. [1987]. "Extension Education". Bapatha, Andhra Pradesh, India.: Sreelekshmi Press.
- Supe, S.V. (1983). *An introduction to Extension Education*. Delhi: Oxford IBH Publishing

#### **2. Suggestive digital platforms web links-**

<http://heecontent.upsdc.gov.in/Home.aspx>

This course can be opted as an elective by the students of following subjects: Open for all

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<p>Suggested Continuous Evaluation Methods:</p> <ul style="list-style-type: none"> <li>● Seminar / presentation on any topic of the above syllabus.</li> <li>● Test with multiple choice questions/ short and long answer questions.</li> <li>● Preparation of Audio-visual aids.</li> <li>● Attendance.</li> </ul>
<p>Course prerequisites: To study this course, a student must have had the subject ALL in class12<sup>th</sup>.  .....</p>
<p>Suggested equivalent online courses:</p> <ul style="list-style-type: none"> <li>● IGNOU &amp; Other centrally/state operated Universities/ MOOC platforms such as “SWAYAM” in India and Abroad.</li> </ul>
<p>Further Suggestions:</p> <p>It widens the scope for students to join Government and Non-Government organization upskilling the people at different levels as per their socio-economic structure. Extension work will speed up the (1) Man Environment; (2) Basic structures (Gram Panchayat, Village School and Cooperative Societies) etc.</p>
<p>At the End of the whole syllabus any remarks/ suggestions:</p> <p>.....</p> <p>.....</p>

**B.A. 2 Semester IV Home Science Paper- 2**  
**Resource Planning & Decoration (Practical)**

Diploma in Faculty	Year: 2	Semester: IV
Subject: Home Science		
Course Code: A130402P	Course Title: Resource Planning and Decoration (Practical)	
Course outcomes:		
<ul style="list-style-type: none"><li>Developing skills for making a time plan for effective balance of work &amp; leisure.</li><li>Plan &amp; prepare a budget for the family.</li><li>Incorporate appropriate work simplification in using household equipments.</li><li>Develop understanding for house planning &amp; decoration.</li></ul>		
Credits: 2		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of lab.periods-30 (60 hours)		
Unit	Topic	No. of lab. periods
I	<ul style="list-style-type: none"><li>Preparation of time plans for self and family.</li><li>Drafting a family budget for different income groups.</li></ul>	8
II	<ul style="list-style-type: none"><li>Market Survey of Household Equipments- (Pressure cooker, Toaster, Gas Stove, Mixer &amp; Grinder, Refrigerator, Washing machine, Microwave, Solar cooker)</li></ul>	8
III	<ul style="list-style-type: none"><li>Draw House Plans Standard Specifications &amp; Furniture Layout.</li></ul>	7
IV	<ul style="list-style-type: none"><li>Preparation of Color wheels &amp; Color schemes.</li><li>Flower Arrangement &amp; Floor Decoration (Rangoli)- Application of Design Principles and Elements of Art , Innovation of new styles.</li></ul>	7
Suggested Readings:		
<ul style="list-style-type: none"><li>Alexander. N.J., (1972). Designing Interior Environment. New York: Harcourt Brace,</li><li>Bhargava, B. (2005). Family Resource Management and Interior Decoration, Jaipur: Apple Printer and V. R. Printers.</li><li>Faulkner, R., and Faulkner, S. (1975). Inside Today’s Home, New York: Rinehart.</li><li>Gandotra, V., and Jaiswal, N. (2008). Management of Work in Home, New Delhi: Dominant Publishers and Distributors. (ISBN No. 81-7888-526-3)</li><li>Harmon. S., and Kennon, K. (2018). The Codes Guidebook for Interiors (5thEd.). New York: Wiley (ISBN: 978-1-119-34319-6)</li><li>Johanovich Inc. Ball, V. K. (1982). Art of Interior Design. New York: John Wiley &amp; Sons.</li><li>Leach, S. D. (1978). Techniques of Interior Design Rendering and Presentation (1st Ed.). Architectural record Books (ISBN-13: 978-0070368057)</li></ul>		

<ul style="list-style-type: none"> <li>● Mohanty, A.B. (1985). Guide to House Buildings. New Delhi: Inter India Publications</li> <li>● Patni Manju &amp; Sharma Lalita, Grah Prabandh, Star PublicationsAgra.</li> </ul> <p>Suggestive digital platforms web links-</p> <ul style="list-style-type: none"> <li>● bit.ly/3fJfghi</li> <li>● https://bit.ly/39mTwGQ</li> <li>● https://bit.ly/2JoXB2e</li> <li>● <a href="https://bit.ly/3ljkWf">https://bit.ly/3ljkWf</a>.</li> </ul> <p>Svayam Portal, <a href="http://heecontent.upsdc.gov.in/Home.aspx">http://heecontent.upsdc.gov.in/Home.aspx</a></p>
<p>This course can be opted as an elective by the students of following subjects: Open for all .....</p>
<p>Suggested Continuous Evaluation Methods:</p> <ul style="list-style-type: none"> <li>● Assessment of Time-Energy, Budget &amp;House Plans.</li> <li>● Assessment of Market Survey Records.</li> <li>● Assessment of Flower Arrangements and Rangoli.</li> <li>● Attendance.</li> </ul>
<p>Course prerequisites: To study this course, a student must have had the subject ALL in class/12<sup>th</sup>. .....</p>
<p>Suggested equivalent online courses: IGNOU &amp; Other centrally/state operated Universities/ MOOC platforms such as “SWAYAM” in India and Abroad</p>
<p>Further Suggestions:</p> <ul style="list-style-type: none"> <li>● Students may develop their managerial skills &amp; Interior designing skills after completion this course with the capability to opt for a job or start their own ventures.</li> </ul> <p>The program giving an opportunity to advancement their knowledge by enrolling for advanced specialized program of their own area of need &amp; interest.</p>
<p>At the End of the whole syllabus any remarks/ suggestions: .....</p>

**B.A. 2 Semester IV Home Science Paper- 3**  
**Research Project/ Internship/ Field Work/ survey**

Diploma in Faculty	Year: 2	Semester: IV
Subject: Home Science		
Course Code: A130403R	Course Title: Research Project/ Internship/ Field Work/ Survey	Credits: 3
<ul style="list-style-type: none"> <li>● At the Undergraduate level, during the fourth semester or after the second year, It will be Mandatory for the students to do a Research Project /Internship/ Fieldwork /Survey Work of 3 credits related to any one of the two major subjects selected by the students ,preferably in the summer vacation</li> </ul>		

**GRADUATION IN FACULTY**  
**B.A. 3 Semester V Home Science Paper- 1**  
**Surface Ornamentation of Fabrics (Theory)**

Graduation in Faculty	Year: 3	Semester: V
Subject: Home Science		
Course Code: A130501T	Course Title: Surface Ornamentation Of Fabrics (Theory)	
Course outcomes:		
<ul style="list-style-type: none"><li>• Knowing why fabrics look differently</li><li>• Identify the different techniques of fabric from surface</li><li>• Learn about finishes done on fabrics</li><li>• Knowing about dyeing fabrics</li><li>• Learn how printing on fabrics is carried</li><li>• Knowing the traditional embroideries of India</li><li>• Identifying traditional textiles of different states</li><li>• Knowing the importance of appropriate laundry method</li><li>• Learning about selection care and storage of clothing</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of Lectures- 60		
Units	Topics	No. of Lecture
I	<b>Techniques of Creating variety on fabrics</b> (a) finishing of fabrics (b) dyeing of fabrics (c) printing fabrics (d) embroidery	8
II	<b>Finishes</b> (a) Classification of fabric finishes (b) Study of purpose and process of finishes (i) General Purpose finishes-Bleaching, Mercerization, Calendering, Sanforization, Tenterring, Singeing, Scouring (ii) Functional Finishes	8
III	<b>Dyeing</b> (a) Classification of dyes- Natural v/s Synthetic, advantages and limitations (b) Theory of dyeing (c) Properties and use of Dyes-Basic, Acidic, Direct, Azoic, Natural, Sulphur, Vat, Disperse and Reactive dyes (d) Resist Dying Techniques-Tie & Die, Batik.	8
IV	<b>Printing</b> (a) Direct printing- Block, Screen, Stencil, Roller (b) Transfer printing (c) Discharge printing, Resist printing (d) Polychromatic, Inkjet and Digital printing techniques (e) After treatment of dyed and printed goods	8
V	<b>Traditional Embroideries:</b> Meaning and status of traditional crafts of India, Knowing about the Traditional Embroideries of different States of India:- Kutch work of Gujrat , Kashida of Kashmir, Phulkari of Punjab, Kantha of Bengal and Chikankari of U.P.	6
VI	<b>Traditional Textiles:</b> Knowing the Traditional textiles of different states of India (a) Woven fabrics- Baluchari, brocades, Kashmir carpets, Patola, Ikat (b) Printed, painted and dyed-	7

	Sanganeri, Bhagru, Kalamkari, Madhubani, Bandhani.	
<b>VII</b>	<b>Selection of fabrics and apparel:</b> A) Selection of fabrics for clothing B) Selection of readymade garments C) Selection of household linen, drapery and upholstery	7
<b>VIII</b>	<b>Care and Storage of clothing (Household methods)</b> A) Dry cleaning B) Stain removal C) Laundry D) Proper storage methods	8

#### **Suggested Readings:**

- Marsh JT: Textile Finishes
- Trotman Er: Dyeing And Chemical Technology Of Fibres
- Joseph M: Introduction To Textiles
- Corbman P Bernard: Textiles- Fibre To Fabric
- Hollen & Saddler: Introduction To Textile
- J. Hall: The Standard Hand Book Of Textiles, Wood Head Publication, 2004
- J.E. Smith: Textile Processing –Printing, Dyeing, Abhishek Publishing, 2003
- Kate Broughton: Textile Dyeing, Rockport Publishers, 1996
- W.S. Murphy: Textile Finishing, Abhishek Publication, 2000
- Naik.D. Shailaja:Traditional Embroideries Of India, New Age International Publishers, 1996
- Naik.D. Shailiaja, Jacquie.A. Willson: Surface Designing Of Textile Fabrics, New Age International Publishers,2006
- Bhargav, Bela. Vastra Vigyan, Univ. Book House Pvt. Avam Dhulai Kala,University Book House Pvt Ltd. Jaipur
- Patni .Manju, Vastra Vigyaan Avam Paridhan ka Parichay ,Star Publications, Agra.

Suggestive digital platforms web links-

Swayam Portal, <http://heecontent.upsdc.gov.in/Home.aspx>

This course can be opted as an elective by the students of following subjects: Open for all

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#### **Suggested Continuous Evaluation Methods:**

- Seminar on any topic of the above syllabus.
- Test with multiple choice questions/ short and long answer questions.
- Subjective long questions
- Attendance.

Course prerequisites: To study this course, a student must have had the subject ALL in class/12<sup>th</sup>.

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**B.A. 3 Semester V Home Science Paper- 2**  
**Community Development & Programme Planning**  
**(Theory)**

Graduation in Faculty	Year: 3	Semester: V
Subject: Home Science		
Course Code: A130502T	Course Title: Community Development & Programme planning. (Theory)	
Course outcomes: <ul style="list-style-type: none"><li>● Understand the Community Development dynamics &amp; organizing system for Development.</li><li>● Create awareness about the various development programmes.</li><li>● Identify the leadership pattern in the community.</li><li>● Impart skills to implement, monitor &amp; evaluate programmes.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of Lectures- 60		
Units	Topics	No. of Lectures
I	<b>Community Development:</b> Meaning, Definition, Functions, Objectives, Philosophy, Principles of Community Development Programme in India.	8
II	<b>Community Development Organization:</b> Meaning, Types, Principles, Role & Administrative Structure at the National, State, District, Block & Village levels.	8
III	<b>Home Science Extension Education in Community Development:</b> Origin, Concept, Need, Importance and Contribution of Home Science Extension Education in National Development.	7
IV	<b>Recent Development Programme for Women &amp; Children:</b> Support to Training & Employment for women (STEP), Swarn jayanti Gram Swarojgar Yogna (SGSY), Integrated Child Development Services (ICDS) etc.	7
V	<b>Support Service of Youth Development:</b> NCC, NSS, Youth Camp Youth Clubs etc.	7
VI	<b>NGO &amp; Others:</b> Contribution towards community services, Types & Role of NGO - WHO, CARE, UNICEF, UNESCO, UNDP, CRY, HELP-AGE INDIA.	8
VII	<b>Leadership:</b> Concept, Definitions, Types, Importance, Function and Role of Community leaders. Methods of Identifying and Training of leaders.	7

VIII	<b>Programme Planning:</b> Programme planning component cycle and its components- (i) Designing the project – Defining the objectives, Identifying resources, approach, feasibility and Work plan. (ii) Implementation. (iii) Monitoring and Evaluation.	8
<b>Suggested Readings:</b> <ul style="list-style-type: none"> <li>● Clark John. (1991). Voluntary Organizations: Their Contribution to Development. London: Earth Scan</li> <li>● Dahama, O.P., &amp; Bhatnagar, O.P. “Extension &amp; Rural Welfare”. New Delhi: Oxford and IBH Publishing Co. Pvt. Ltd.</li> <li>● Ghosh Bhola Nath, (1996), “Rural Leadership &amp; Development” Mohit Publications, New Delhi.</li> <li>● Julie Fisher. (2003). Governments, NGO’s and the Political Development of the Third World. Jaipur: Rawat Publications</li> <li>● Mohsin Nadeem, (1985), “Rural Development through Government Program” Mittal Publications New Delhi.</li> <li>● Manju Patni &amp; Harpalini, (2018) Prasar Shiksha avam sanchar, Star Publications, Agra.</li> <li>● Reddy, A [1987]. “Extension Education”. Bapatha, Andhra Pradesh, India.: Sreelekshmi Press.</li> <li>● Ravi Shankar Kumar Singh. (2003). Role of NGO’s in Developing Countries (Potentials, Constraints and Policies). New Delhi: Deep &amp; Deep Publications (P) Ltd</li> </ul> <p>Suggestive digital platforms web links</p> <ul style="list-style-type: none"> <li>● <a href="https://bit.ly/313AyaJ">https://bit.ly/313AyaJ</a></li> <li>● <a href="https://bit.ly/35RnyAi">https://bit.ly/35RnyAi</a></li> <li>● <a href="https://www.un.org/en/universal-declaration-human-rights/">https://www.un.org/en/universal-declaration-human-rights/</a></li> <li>● <a href="https://www.un.org/womenwatch/daw/cedaw/text/econvention.htm">https://www.un.org/womenwatch/daw/cedaw/text/econvention.htm</a></li> <li>● <a href="https://www.ohchr.org/EN/ProfessionalInterest/Pages/CRC.aspx">https://www.ohchr.org/EN/ProfessionalInterest/Pages/CRC.aspx</a></li> <li>● <a href="https://www.undp.org/content/undp/en/home/sustainable-development-goals.html">https://www.undp.org/content/undp/en/home/sustainable-development-goals.html</a></li> <li>● <a href="https://bit.ly/39ROD8X">https://bit.ly/39ROD8X</a></li> <li>● <a href="https://www.unicef.org/">https://www.unicef.org/</a></li> <li>● <a href="https://www.who.int/about">https://www.who.int/about</a></li> <li>● <a href="https://www.careindia.org/">https://www.careindia.org/</a></li> </ul>		
This course can be opted as an elective by the students of following subjects: Open for all .....		
<b>Suggested Continuous Evaluation Methods:</b> <ul style="list-style-type: none"> <li>● Seminar on any topic of the above syllabus.</li> <li>● Test with multiple choice questions/ short and long answer questions.</li> <li>● Attendance.</li> </ul>		
Course prerequisites: To study this course, a student must have had the subject ALL in class 12 <sup>th</sup> .....		



**B.A. 3 Semester V Home Science Paper -3**  
**Community Transforming (change) (Practical)**

Graduation in Faculty	Year: 3	Semester: V
Subject: Home Science		
Course Code: A130503P	Course Title: Community Transformation (Change). (Practical)	
Course outcomes: <ul style="list-style-type: none"><li>● Address &amp; resolve women &amp; family related issues.</li><li>● Make use of Audio-visual aids in planning &amp; conducting group communication</li><li>● Understand the role of Government bodies in the development of the community.</li><li>● Organizing people for their own development.</li></ul>		
Credits: 4	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks : –	
Total No. of lab.periods 30(60 hours)		
Units	Topics	No. of lab.periods
I	● Identify the target group & their relevant issues i.e. Health nutrition, Education, Women's & Family issues followed by preparing a report.	8
II	● Observe & Critical analysis nearby community of women & children related welfare programme followed by the preparation of report.	7
III	● Prepare & learn the use of Audio-visual Aids. Elaborate any two	7
IV	● Identity to create an awareness on the existing contemporary issues. ● Develop a script in the Folk drama (Nukkad Natak) format to perform in the target group.	8
<p>Suggested Readings:</p> <ul style="list-style-type: none"><li>● Mondal Sagar, Misra OP (2018) “Fundamentals of Extension education &amp; Rural Development”, Kalyani Publications, New Delhi.</li><li>● Mortiss PD (1988) Agricultural Extension- Practical Manual” Department of Primary Industries, Queens Land Government.</li><li>● Pradhan.K. Varaprasad.C (2018) Glimpses of Practical in Extension Education, New India Publishing Agency. New Delhi</li><li>● Jaipal Singh.” Prasar Shiksha avam Gramin Vikas” SR Scientific Publications, Agra</li></ul> <p>1. Suggestive digital platforms web links- <a href="https://bit.ly/3922ZTH">https://bit.ly/3922ZTH</a> Svayam Portal, <a href="http://heecontent.upsdc.gov.in/Home.aspx">http://heecontent.upsdc.gov.in/Home.aspx</a></p>		
This course can be opted as an elective by the students of following subjects: Open for all .....		
<p>Suggested Continuous Evaluation Methods:</p> <ul style="list-style-type: none"><li>● Assessment of Audio-visual Aids and their use.</li><li>● Assessment of techniques and communication skills.</li><li>● Assessment of Educational Plan and Visits Record.</li><li>● Attendance.</li></ul>		

**B.A. 3 Semester VI Home Science Paper -1**  
**Dietetics & Therapeutic Nutrition (Theory)**

Graduation in Faculty		Year: 3	Semester: VI
Subject: Home Science			
Course Code: A130601T		Course Title: Dietetics And Therapeutic Nutrition( Theory)	
Course outcomes:			
1- Gain knowledge of principles of diet therapy 2-Develop and understand modification of the normal diet for therapeutic purposes 3- Practical knowledge of dietary management in some common disorders			
Credits: 4		Core Compulsory	
Max. Marks: 25+75		Min. Passing Marks : –	
Total No. of Lectures-60			
Units	Topics		No. of Lectures
I	Introduction a) Definition of Health Dietetics and Therapeutic Nutrition b) Importance of Diet Therapy c) Facts about fast foods/Junk foods d) Objectives of therapeutic Diet e) Principles of diet therapy		07
II	Diet and Feeding Methods a) Modification of normal diets for therapeutic purposes b) Methods of modification <ul style="list-style-type: none"><li>On the basis of nutrients</li><li>On basis of consistency</li></ul> c) Different Feeding Methods <ul style="list-style-type: none"><li>Oral feeding</li><li>Tube feeding</li><li>Parenteral Feeding</li></ul>		07
III	Energy Metabolism a) The calorific value of food b) Measurement of energy exchange in the body <ul style="list-style-type: none"><li>Direct calorimeter</li><li>Indirect calorimeter</li></ul> c) Factors influencing the Basal Metabolic Rate  Factors influencing the total energy requirement		08

<b>IV</b>	Diet During Fevers and Infections a) Introduction to fever –Acute fever –Chronic fever b) Important changes in nutrition during fever c) Modification of the diet	07
<b>V</b>	Diet During Digestive System Disorders a) Peptic ulcers–Causes, symptoms and diet modification b) Diarrhea and Constipation –Causes and diet modification	08
<b>VI</b>	Weight Management a) Overweight and Obesity –Introduction to Obesity –Causes of Obesity –Diet Modification b) Underweight –Causes –Diet Therapy	07
<b>VII</b>	Causes ,Symptoms and Therapeutic Diets in a) Gout b) Osteoporosis c) Arthritis	08
<b>VIII</b>	a) Diet during Menarche and Menopause b) Causes, Symptoms and Diet in PCOD	08

**Suggested Readings:**

- ❖ Sumati R Mudambi – “Fundamentals of food, Nutrition and Diet Therapy”, New Age International Pvt. Ltd, New Delhi, 6<sup>th</sup> Edition (2018).
- ❖ B Srilakshmi- “Dietetics” , New Age International Publishers, New Delhi 2017
- ❖ Bamji MS, Krishnaswamy K and Brahmam GNV(Eds) (2009), Textbook of Human Nutrition, 3<sup>rd</sup> Edition , Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi
- ❖ Dr. Brinda Singh- Aahar Vigyan evam Poshan, , Panchsheel Prakashan, Jaipur, 2015; 13<sup>th</sup> Ed.
- ❖ Dr. Sheel Sharma, “Nutrition and Diet Therapy” PEEPEE Publishers and Distributors (P) Ltd. Delhi, 2014, 1st Ed.
- ❖ Shubhangini A Joshi, – “Nutrition and Dietetics”, Mc Graw Hill Education Private Ltd., New Delhi, 2013
- ❖ Kumud khanna– “Text book of Nutrition and Dietetics” , Elite Publishing House Pvt. Ltd, New Delhi, 7<sup>th</sup> Ed. 2013
- ❖ M Swaminathan – Essentials of food and Nutrition , Vol II, Applied Aspects, The Bangalore Printing and Publishing Co. Ltd, Bangalore, 2<sup>nd</sup> Edition 1985, Reprint 1997.

This course can be opted as an elective by the students of following subjects: Open for all

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**Suggested Continuous Evaluation Methods:**

- Test with multiple choice questions/short and long answer questions
- Menu planning and calculation of nutrient requirement
- Seminar on any above topics

Course prerequisites: To study this course, a student must have had the subject in class/12<sup>th</sup>/ certificate/diploma.

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**Suggested equivalent online courses:**

IGNOU and other centrally/state operated Universities/MOOC platforms such as “SWAYAM” in India and abroad

<http://heecontent.upsdc.gov.in/Home.aspx>

**Further Suggestions:**

- Students can opt. dietitian, nutrition advisor/ Nutritionist as a career in private and government sector as well as extend knowledge by joining advance course in same discipline.

At the End of the whole syllabus any remarks/ suggestions:

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**B.A. 3 Semester VI Home Science Paper- 2**  
**Research Methodology and Gender Development (Theory)**

Graduation in Faculty	Year: 3	Semester: VI
Subject: Community & Essential Science (Home Science)		
Course Code: A130602T	Course Title: Research Methodology and Gender Development (Theory)	
Course outcomes: The student at the completion of the course will be able to: <ul style="list-style-type: none"><li>● Explain the concept and use of Research.</li><li>● Develop a research proposal.</li><li>● Learn about the data, sample and report writing.</li><li>● Conduct a survey.</li><li>● To develop insight into the General issues of women.</li><li>● To understand strategies for empowerment of women.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of Lectures-Tutorials- 60 Lectures		
Units	Topics	No. of Lectures
PART A		
I	Social Research: <ul style="list-style-type: none"><li>● Concept,</li><li>● Scope,</li><li>● Steps of research</li></ul>	06
II	Sampling <ul style="list-style-type: none"><li>● Concept, Techniques, Principles and Limitations of sampling.</li></ul>	06
III	Data Collection: <ul style="list-style-type: none"><li>● Sources of Data Collection: Primary &amp; Secondary</li><li>● Tools of Data collection: Interview schedule, Observation, Questionnaire</li><li>● Methods of data collection</li></ul>	08

IV	<p>Report Writing</p> <ul style="list-style-type: none"> <li>• Summary, Conclusion and Recommendations</li> <li>• Writing references</li> <li>• Writing process of research report: Formal Style of writing, Preface, Chapterization, Headings, Tables and Figures, Appendices, Bibliography and Acknowledgement</li> </ul>	10
PART B		
V	<p><b>Women in Development:</b> Capacity Building for women- Education, Decision Making abilities, Opportunities, Awareness &amp; Information on social and legal issues.</p>	08
VI	<p><b>Women's Organizations &amp; Collective Strength:</b> Women's action groups and women's participation in development initiative.</p>	07
VII	<p><b>Employment Trends of women:</b> Need for self-employment, Opportunities &amp; challenges in an organized and un-organized sector.</p>	07
VIII	<p><b>Entrepreneurship Development to empower women:</b> Motivation, Development of women entrepreneurs in India, Schemes available to encourage women entrepreneurship.  (a) Bhartiya Mahila Bank Business Loan  (b) Annapurna Scheme.  (c) Stree Shakti Package  (d) <b>Mudra yojana scheme for women.</b>  (e) <b>Mahila udyam nidhi scheme.</b></p>	08

**Suggested Readings:**

1. C. R. Kothari: Research Methodology- Method and Techniques
  2. R. Kumar: Research Methodology: A step by Step Guide for Beginners
  3. M. H. Gopal: Introduction to Research Methodology for Social Sciences
  4. Good, Carter, Scales and Douglas: Methods of Research
  5. Bhasin, Kamla (2000). Understanding Gender. New Delhi. Kaali for Women.
  6. Devi, Uma (1994). Women Work, Development and Ecology. New Delhi, Har-Anand Publications.
  7. Krishna, Sumi (2007). Women's Livelihood Rights: Recasting Citizenship for Development, New Delhi, Sage Publications.
  8. Sohoni, K Neerj, (1994), Status of Girls in Development Strategies, New Delhi, Har-Anand Publications.
  9. Gundry Lisa K. & Kickul Jill R., 2007, Entrepreneurship Strategy: Changing Patterns in New Venture
  10. Creation, Growth, and Reinvention, SAGE Publications, Inc.
  11. Taneja & Gupta, 2001, Entrepreneur Development- New Venture Creation, Galgotia Publishing Company
  12. Patni, Manju. Anusandhan Vigyaan, Star Publications, Agra.
  13. Sudha, G.S. Vyavsayik Prabandh ke Siddhant avam Udyamita, RBD Publications.
  14. Gupta, U.C. Udyamita Vikas, Kailash Pustak Sadan,
- Bhopal Suggestive digital platforms web links- e-PG  
Pathshala – Inlibnet

This course can be opted as an elective by the students of following subjects: Open for all

- The eligibility for this paper is 10+2 with any subject

**Suggested Continuous Evaluation Methods:**

- Seminar/ Presentation on any topic of the above syllabus
- Test with multiple choice questions/ short and long answer questions
- Attendance

Course prerequisites: To study this course, a student must have had the subject ALL in class 12<sup>th</sup>.

- The eligibility for this paper is 10+2 with any subject

**Suggested equivalent online courses:**

- IGNOU & Other centrally/state operated Universities/ MOOC platforms such as "SWAYAM" in India and Abroad.

**Further Suggestions:**

It widens the scope for students to join Government and Non-Government organization upskilling the people at different levels as per their socio-economic structure.

At the End of the whole syllabus any remarks/ suggestions:

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**B.A. 3 Semester VI Home Science Paper -3**  
**Therapeutic Diet Preparation and Nutrient Evaluation (Practical)**

Graduation in Faculty	Year:3	Semester: VI
Subject: Home Science(Practical)		
Course Code: A130603P	Course Title: Therapeutic Diet Preparation and Nutrient Calculation	
Course outcomes: 1- Gain knowledge of principles of diet therapy 2- Develop and understand modification of the normal diet for therapeutic purposes 3- Practical knowledge of dietary management in some common disorders		
Credits: 4	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks : –	
Total No. of lab.periods -30(60 hours)		
Units	Topics	No. of lab.periods
I	Modification of normal diet for therapeutic purposes- preparation and presentation	06
II	Therapeutic Diet Preparation and Nutrient Calculation of <ul style="list-style-type: none"><li>- Diet in fever</li><li>- Diet in diarrhea</li><li>- Diet in Constipation</li></ul>	08
III	Therapeutic Diet Preparation and Nutrient Calculation of some Common Disorders <ul style="list-style-type: none"><li>- Diet in diabetes Mellitus</li><li>- Diet in Hypertension</li><li>- Diet in Atherosclerosis</li></ul>	08
IV	Dietary Modification for Weight Management – Preparation and Nutrient Calculation of Diet in- <ul style="list-style-type: none"><li>- Overweight &amp; obesity</li><li>- Underweight</li></ul>	08
<b>Suggested Readings:</b> <ul style="list-style-type: none"><li>❖ Sumati R Mudambi – “Fundamentals of food, Nutrition and Diet Therapy”, New Age International Pvt. Ltd, New Delhi, 6<sup>th</sup> Edition (2018).</li><li>❖ B Srilakshmi- “Dietetics” , New Age International Publishers, New Delhi 2017</li><li>❖ Bamji MS, Krishnaswamy K and Brahmam GNV(Eds) (2009), Text book of Human Nutrition, 3<sup>rd</sup> Edition , Oxford &amp; IBH Publishing Co. Pvt. Ltd. New Delhi</li><li>❖ Dr. Brinda Singh- Aahar Vigyan evam Poshan, , Panchsheel Prakashan, Jaipur, 2015; 13<sup>th</sup> Ed.</li><li>❖ Dr. Sheel Sharma, “Nutrition and Diet Therapy” PEEPEE Publishers and Distributers (P) Ltd. Delhi, 2014, 1st Ed.</li></ul>		



This course can be opted as an elective by the students of following subjects: Open for all

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**Suggested Continuous Evaluation Methods:**

- Test with multiple choice questions/short and long answer questions
- Menu planning and calculation of nutrient requirement

Course prerequisites: To study this course, a student must have had the subject in class/12<sup>th</sup>/ certificate/diploma.

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**Suggested equivalent online courses:**

IGNOU and other centrally/state operated Universities/MOOC platforms such as “SWAYAM” in India and abroad Svayam Portal,  
<http://heecontent.upsdc.gov.in/Home.aspx>

**Further Suggestions:**

Students can opt. dietitian, nutrition advisor/ Nutritionist as a career in private and government sector as well as extend knowledge by joining advance course in same discipline.

**FOURTH YEAR  
GRADUATION DEGREE WITH HONOURS**

**B.A.4 Semester VII Home Science Paper - 1  
Advanced Nutrition and Institutional Management (Theory)**

Graduation with Honours	Year:4	Semester VII
Subject :-Home Science		
CourseCode: A130701TN	Course Title: Advance Nutrition and Institutional Management	
<b>COURSE OUTCOMES:</b> <ul style="list-style-type: none"><li>To enable the students to understand the basic attributes regarding food</li><li>To understand the special characteristics of Food Science establishments.</li><li>To acquaint with importance of various foods and nutrients in human nutrition.</li><li>To develop a knowledge base in Key areas of Institutional Food Administration.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
TOTAL NO. OF LECTURES – 60		
Units	Topics	No. OF LECTURES
I	<ul style="list-style-type: none"><li>Recommended dietary allowances meaning, Importance, uses and basis for the ICMR dietary allowances guidelines, Reference man and Reference women</li><li>NUTRIENTS : MICRO AND MACRO</li><li>CARBOHYDRATES: Sources, classification, function, deficiency diseases, brief idea about Metabolism of Glucose, elementary idea about Glycolysis, Gluconeogenesis and Glycemic Index of Food, Elementary idea of regulation of Blood Sugar Level.</li><li>PROTIENS: Sources, classification, function, deficiency diseases, protein digestion and elementary idea about meaning and assessment of protein quality</li><li>LIPIDS: Sources, classification, function, deficiency diseases and digestion of fat ,brief idea about saturated and polyunsaturated fatty acids</li></ul>	35

	<ul style="list-style-type: none"> <li>• VITAMINS and MINERALS: sources, classification, functions, deficiencies and toxicity, Trace minerals: Iron and Zinc, Major Elements – Calcium, Phosphorus, Zinc, Iodine.</li> <li>• DIETARY FIBER: Sources and Nutritional significance</li> </ul>	
II	<ul style="list-style-type: none"> <li>• FOOD PREPARATION: Methods and their effects on Nutritional values of food and prevention of nutrient losses during cooking, enhancement of nutritional value during cooking</li> <li>• Meal planning: Principles involved in planning Menus</li> </ul>	05
III	<ul style="list-style-type: none"> <li>• Concept and definition of catering services in various institutions</li> <li>• Types of Food services-Hospital, schools, industrial canteens, travel catering .</li> </ul>	09
IV	<ul style="list-style-type: none"> <li>• Type of Menu-Cyclic, Ala-a-Carte, Table-d-hote, Buffet etc</li> <li>• Serving meals for large groups and its management- Hostel, Canteen, Hospital, Railways , Airlines .</li> </ul>	11

#### **SUGGESTED READINGS :**

1. Textbook of Human Nutrition : Banji, Rao & Reddy
2. Essential of Food & Nutrition : M. Swaminathan
3. Advanced Text book on Foods & Nutrition Vol-I & II : M. Swaminathan
4. Normal & Therapeutic Nutrition : Proudfit & Fobeason
5. Catering Management ; An Integrated approach : Sethi M. Malhans S (1993)
6. Applied Nutrition : R. Rajlaxmi
7. Food Science and Nutrition, Sunetra Roday, II Edition Oxford University Press
8. Mahan L.K. & Escott-Stump, S. (2000): Krause's Food Nutrition and Diet Therapy, 10th Edition W.B. Saunders Ltd.

**B.A.4 Semester VII Home Science Paper -2**  
**Fashion Design and Traditional Textile (Theory)**

Graduation with Honours	Year:4	Semester VII
Subject: Home Science		
Course Code: A130702TN	Course Title: Fashion Design and Traditional Textiles	
Course Outcomes:		
<ul style="list-style-type: none"><li>Students will gain knowledge of types of Designs, Elements and Principles of Designs and their application to Fashion Design</li><li>Students will develop understanding regarding fashion, its movement and consumer behaviour.</li><li>Students will be able to appreciate traditional textiles and embroideries of India viz a viz their material, colour, textures and motifs.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of Lectures-60		
UNITS	TOPICS	No. of LECTURES
I	<p>*Design Analysis With Respect to Fashion and Textile Design</p> <ul style="list-style-type: none"><li>Designs: Structural, Decorative, Abstract</li><li>Introduction to Applied Art<ul style="list-style-type: none"><li>Elements of design</li><li>Principles of design</li></ul></li></ul>	15
II	<p>*Introduction to Fashion</p> <ul style="list-style-type: none"><li>Fashion: Terminology, characteristics, contrast with customs and role in modern society</li><li>Theories of Fashion adoption</li><li>Fashion cycle</li><li>Factors influencing fashion</li></ul>	10
III	<p>*Introduction to Traditional Indian Textiles</p> <ul style="list-style-type: none"><li>Bengal textiles: Dhaka Muslins,Baluchari and Jamdani</li><li>Kashmir shawls</li><li>Textiles from Madhya Pradesh:Chanderi and Maheshwari</li><li>Brocades:Banaras Brocades, Brocades of Aurangabad, Brocades of Gujarat</li><li>Resist dyed textiles:<ul style="list-style-type: none"><li>Yarn dyed textiles :Patolas of Gujarat,Ikat Textiles of Orissa, Pochampalli of Telangana</li></ul></li></ul>	18

	<ul style="list-style-type: none"> <li>▪ Fabric dyed textiles: Tie and Dye of Rajasthan and Gujarat.</li> <li>• Traditional printed and painted textiles of India Study of above traditional textiles with emphasis to texture, design, and colour</li> </ul>	
IV	<p>*Introduction to traditional Indian embroideries</p> <ul style="list-style-type: none"> <li>• Embroideries of Uttar Pradesh: Chikankari and Zardozi</li> <li>• Kasuti of Karnataka</li> <li>• Phulkari of Punjab</li> <li>• Kashida of Kashmir</li> <li>• Kantha of Bengal</li> <li>• Embroideries of Gujarat :Kutch,Kathiyawad, and Sindh</li> <li>• Embroidery of Himachal Pradesh: ChambaRumal</li> <li>• Embroidery of Manipur</li> <li>• Embroideries of Bihar: Sujini and khatwa(patch and applique work)</li> </ul> <p>Study of above traditional embroideries with emphasis on fabric, threads, motifs and colour.</p>	17
<p><b>Suggested Readings:</b></p> <ul style="list-style-type: none"> <li>• Vaibhav Dhangre, Elements and Principles of fashion design (for beginners), Lambert Academic publishing</li> <li>• Sumathi G J, Elements of fashion and apparel design, New Age International Publishers</li> <li>• Santosh Bataliya (2002), Bharat ki Paramparagat kashidakari, Traditional Embroidery of India, Madhya Pradesh Hindi Granth Academy,</li> <li>• Shailaja.Naik, Traditional Embroideries of India, South Asia Books.</li> <li>• Anjali Karolia, Traditional Indian Handcrafted Textiles, Niyogi books Pvt. Ltd.</li> <li>• Martand Singh, Handcrafted Indian Textiles, Lustre</li> <li>• John Gillow, Indian textiles, Om books International</li> <li>• Minakshi Prakash, Fashion Theory, Lord Publishing House</li> <li>• Suggested Digital Platforms, web Links- <ul style="list-style-type: none"> <li>• <a href="http://www.textilelearner.blogspot.com">www.textilelearner.blogspot.com</a></li> <li>• <a href="http://www.slideshare.net/MohaddesaDehghani/fashion-terminology">www.slideshare.net/MohaddesaDehghani/fashion-terminology</a></li> <li>• <a href="http://www.slideplayer.com/slide/4888082">www.slideplayer.com/slide/4888082</a></li> <li>• <a href="http://www.braincraft.com/article/theories of fashion_35653">www.braincraft.com/article/theories of fashion_35653</a></li> </ul> </li> </ul>		

**B.A. 4 Semester VII Home Science Paper -3**  
**Extension Management and Community Development (Theory)**

Degree With Honours	Year: 4	Semester: VII
Subject: Home Science		
Course Code: A130703TN	Course Title: Extension Management and Community Development	
Course Outcomes: The student at the completion of the course will be able to: <ul style="list-style-type: none"><li>Understand the role of community development programme</li><li>To be aware of the approaches to development</li><li>To creat awareness about welfare programmes</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of Lectures-60		
Units	Topics	No. of Lectures
I	<ul style="list-style-type: none"><li>Extension Teaching - Learning and Training<ul style="list-style-type: none"><li>*Methods and Process</li><li>*Steps in Extension teaching methods</li></ul></li><li>Teaching aids - Types, Characteristics and function</li><li>*Role of media in the process of learning</li><li>*Extension learning - Definition and importance, Types of training</li></ul>	15
II	<ul style="list-style-type: none"><li>Extension System<ul style="list-style-type: none"><li>*Outline of National Extension system in India</li><li>*Welfare Programmes</li></ul></li><li>SHG, CARE, CHETNA, SEWA, Beti Bachao Beti Padhao, Ujjawla Yojna, STEP, Swach Bharat Abhiyan, Kaushal Vikas Yojna, Pradhan Mantritva Vandana Yojna.</li></ul>	15
III	<ul style="list-style-type: none"><li>Community Development<ul style="list-style-type: none"><li>*Definition, concept, principles and organization of community development</li><li>*Types of community</li><li>*Community development programmes in India</li></ul></li></ul>	15

IV	<ul style="list-style-type: none"> <li>• Concept of Extension Management <ul style="list-style-type: none"> <li>*Definition, nature, principles, importance, scope and need</li> <li>*Difference between extension education and extension management</li> <li>*Models of extension management</li> <li>*Leadership-Concept and definition</li> </ul> </li> <li>• Types of leadership and qualities of a leader</li> </ul>	15
<p>Suggested Readings:</p> <ul style="list-style-type: none"> <li>• B.K. Chaubey (1990) A Hand book of Extension Education, Jyoti Publication, Allahabad.</li> <li>• Brinda Singh, Prasar Shiksha, Panchsheel Prakashan Jaipur</li> <li>• Dr. P.N. Kalta, Prasar Shiksha Ke Naye Ayam (2005), Rajasthan Hindi Granth Academy, Jaipur.</li> <li>• Kumar, Band Kashyap, S.K. 2007, Management of Training Institute.</li> </ul>		

**B.A.4 Semester VII Home Science Paper-4**  
**Research Methodology (Theory)**

<b>Degree With Honours</b>	<b>YEAR – 4</b>	<b>SEMESTER-VII</b>
<b>SUBJECT – HOME SCIENCE</b>		
<b>Course Code : A130704TN</b>	<b>Course Title : Research Methodology</b>	
<b>COURSE OUTCOMES:</b> This course will enable the students to – <ul style="list-style-type: none"> <li>• To understand the significance of research methodology in Home Science</li> <li>• To understand the types, tools and methods of research</li> <li>• To develop the ability to construct data gathering instruments of the research design.</li> </ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
TOTAL NO. OF LECTURES – 60		
<b>Units</b>	<b>Topics</b>	<b>No. Of Lectures</b>
I	<ul style="list-style-type: none"> <li>• Definition &amp; meaning and importance of research, its nature and scope.</li> <li>• Characteristics of Scientific research</li> <li>• Steps in Research</li> <li>• Basic principle of research design</li> <li>• Recent trends in research in Home - Science</li> </ul>	15
II	<ul style="list-style-type: none"> <li>• Research methods &amp; procedures/ Types of research, characteristics, advantages and disadvantages of research.</li> <li>• Historical Research</li> <li>• Descriptive Research</li> <li>• Experimental Research</li> <li>• Survey research</li> <li>• Field Research</li> <li>• Reliability and Validity test – meaning and types</li> </ul>	25
III	<ul style="list-style-type: none"> <li>• Research Problem</li> <li>• Definition, Importance, Source and Types of Research Problem</li> </ul>	10



IV	<ul style="list-style-type: none"> <li>Hypothesis – Definition, Importance and Types of Hypothesis Testing of Hypothesis – Type I and Type II Errors, Level of Significance.</li> </ul>	10
<p><b>SUGGESTED READINGS:</b></p> <ol style="list-style-type: none"> <li>1. Bhandarkar,P.L.andWilkinsonT.S.(2000):MethodologyandTechniquesofSocial Research Himalaya Publishing House, Mumbai.</li> <li>2. Bhatnagar,G.L.(1990): ResearchMethodsand MeasurementsinBehaviouralandSocial Sciences, Agri, Cole Publishing Academy, New Delhi</li> <li>3. Gay,L.R.(1981,2ndEd):EducationalResearch, Charles,E.Merill,Columbus,Ohio</li> <li>4. Mukherjee,R.(1989):TheQualityofLife: Valuation Social Research Sage Publications, New Delhi.</li> <li>5. ResearchMethodsinBehavioralScience,Kapil.KE.</li> <li>6. Foundations Behavioral,Kerlinger.&amp;.Research</li> <li>7. AnusandhaanParichay,ParasNathRai</li> <li>8. EducationalResearchMethods,Sareen Sareen</li> <li>9. AnusandhaanVidhiyan,Srivastava,D.N.</li> </ol>		

**B.A.4 Semester VII Home Science Paper -5**  
**Design Ideals for Sketching and Traditional Textiles**  
+  
**Extension Education (Practical)**

Degree With Honours	Year-4	SEMESTER-VII
Subject: Home Science		
Course Code: A130705PN	Course Title: Design Ideals for Sketching and Traditional Textiles +Extension Education	
Course Outcomes:		
<ul style="list-style-type: none"><li>● Students will learn to apply design ideals to fashion sketching.</li><li>● Students will be able to drape the desired idea of their design on to Croqui/fashion figure.</li><li>● Students will learn the creative art of Embroidery.</li><li>● Students will learn various Embroidery stitches used in traditional Embroideries.</li><li>● Students will learn to apply Indian Traditional designs and motifs to contemporary design.</li><li>● Student will have an experience of being an Extension Worker.</li></ul>		
Credits: 4	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks : –	
Total No. of Lab. Periods-60 (120 hours)		
Units	Topics	No. of Lab. Periods
I	Design Ideals for Fashion Sketching <ul style="list-style-type: none"><li>● Basics of Colour<ul style="list-style-type: none"><li>*Hue</li><li>*Colour Wheel</li><li>*Value Chart</li><li>*Intensity Chart</li></ul></li><li>● Grey Scale</li></ul>	05
II	<ul style="list-style-type: none"><li>● Application of Elements of Art in Fashion Designing</li><li>● * Dressing up of Croquis in sketch file using<ul style="list-style-type: none"><li>*Various lines</li><li>*Various colour schemes</li><li>*Various silhouettes</li></ul></li><li>● Collecting samples of various fabric textures and preparing a “texture Sheet”</li><li>● Collecting various trimmings for making “Trimming sheet”</li></ul>	15

III	<p>Application of Principles of Art in Fashion Designing</p> <ul style="list-style-type: none"> <li>● Dressing up of Croquis in sketch file using <ul style="list-style-type: none"> <li>*Proportion</li> <li>*Balance</li> <li>*Rhythm</li> <li>*Emphasis</li> <li>*Harmony</li> </ul> </li> </ul>	05
IV	<ul style="list-style-type: none"> <li>● <u>Traditional Indian Embroideries and Textiles</u> <ul style="list-style-type: none"> <li>*Make hand embroidered samples of each Traditional Indian embroidery</li> <li>*Collect samples of Traditional Indian Textiles</li> <li>*Make a file of Designs &amp; Samples of Traditional Textiles and Embroideries.</li> </ul> </li> </ul>	20
V	<ul style="list-style-type: none"> <li>● <u>Extension Education</u> <ul style="list-style-type: none"> <li>*Preparation of Teaching aid on any Current Social Issue for Spreading awareness <ul style="list-style-type: none"> <li>in community</li> </ul> </li> <li>*Visit to nearby slum area with an objective to study the problems faced by <ul style="list-style-type: none"> <li>slum dwellers.(using Survey method)</li> </ul> </li> <li>*Preparation of report based on the survey conducted.</li> </ul> </li> </ul>	15

**B.A.4 Semester VIII Home Science Paper- 1**  
**Therapeutic Management and Community Nutrition (Theory)**

Graduation with Honors	YEAR – 4	SEMESTER-VIII
SUBJECT – HOME SCIENCE		
Course Code : A130801TN	Course Title :Therapeutic Management and Community Nutrition	
COURSE OUTCOMES: This course will enable the students to – <ul style="list-style-type: none"><li>❖ Understand the principle of diet therapy.</li><li>❖ Understand the modification of normal diet for therapeutic purposes</li><li>❖ Understand the dietary modifications for various disease conditions</li><li>❖ Understand the concept and methods of community nutrition.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. Of Lectures – 60		
Units	Topics	No. OF Lectures
I	<ul style="list-style-type: none"><li>❖ Basic concepts, objectives and scope of therapeutic diets</li><li>❖ Adaptation of Normal diets for therapeutic purposes-Liquid, Soft, full fluid, clear fluid diet, bland diet</li><li>❖ Various Nutritional support to patients -Oral feeding, tube feeding etc</li></ul>	10
II	<ul style="list-style-type: none"><li>❖ Etiology, Causative Factors, preventive measures and planning of diets in</li><li>❖ Febrile conditions - Acute fever ,T.B, Typhoid</li><li>❖ G.I. disorders -Diarrhoea, Constipation, peptic ulcer</li><li>❖ Liver diseases-Liver cirrhosis, jaundice</li><li>❖ Kidney diseases Acute and chronic Nephritis</li><li>❖ Diabetes Mellitus classification, symptoms, metabolic changes and dietary management</li><li>❖ Diet in Coronary Heart disease, Hypertension</li><li>❖ Diet in cancer, thyroid problems, Anaemia</li><li>❖ Diet in post operative cases</li></ul>	35
III	<ul style="list-style-type: none"><li>❖ Assessment of the Nutritional status of the community: Anthropometric, Biochemical and biophysical investigations, Clinical examination, Dietary surveys</li><li>❖ The study of Vital statics</li></ul>	10

IV	<ul style="list-style-type: none"> <li>❖ Methods n aids in Imparting Nutrition Education</li> <li>❖ calculation, cooking and dietary counselling for various diseases</li> <li>❖ Febrile Conditions – High Calorie, High Protein diet.</li> <li>❖ Gastrointestinal Disorders – Soft and Low Fiber Diet</li> <li>❖ Kidney Diseases – Low Sodium, Low Protein Diet.</li> <li>❖ Diabetes Mellitus – Low carbohydrate, Moderate Protein diet.</li> <li>❖ Post Surgery diet – High protein, vitamin – C and Iron rich diets.</li> </ul>	5
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**SUGGESTED READINGS :**

1. Robinson & Lawler : Normal & Therapeutic Nutrition
2. Capalan Cetal : Nutrition Value of Indian Food
3. Bakshi B.K. : Upchararth Aahar aur Samudayik Poshan
4. Antia : Clinical Dietetics & Nutrition
5. Mahan, L.K. and Escott-Stump. S. (2000): Krause's Food Nutrition and Diet Thepapy, 10th Edition, W.B. Saunders Ltd.
6. Williams, S.R. (1993): Nutrition and Diet Therapy, 7th Edition, Times Mirror/ Mosby College Publishing.
7. Davis, J. and Sherer, K. (1994): Applied Nutrition and Diet Therapy for Nurses, 2nd Edition W.B. Saunders Co.

Fauci, S.A. et al (1998) : Harrioson's Principles of Internal Mdecine, 14th Edition, McGraw Hill

**B.A 4 Semester VIII Home Science Paper -2**  
**Advanced Resource Management and Interior Design (Theory)**

Graduation with Honours	Year: 4	Semester: VIII
Subject: Home Science		
CourseCode: A130802TN	Course Title: Advanced Resource Management and Interior Design	
Course outcomes : <ul style="list-style-type: none"><li>To increase the awareness and importance of resources</li><li>To develop the ability to evaluate the management system in family</li><li>Understand the Decision making and use of resources throughout the Family life cycle</li><li>To plan furniture arrangement and colour schemes for different rooms.</li><li>To orient the students towards current trends in furnishing material, furniture, flooring &amp; curtain etc.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of Lectures- 60		
Units	Topics	No. of Lectures
I	<ul style="list-style-type: none"><li><b>Home Management</b><ul style="list-style-type: none"><li>* Definition and philosophy of home management</li><li>*Role of home management in family living history and development of home management in India</li><li>* Elements involved in management process and decision making</li><li>*Classification of resources, factors affecting their uses</li></ul></li><li>Motivation Theories – Maslow’s theory, Herzberg’s theory</li></ul>	15
II	<ul style="list-style-type: none"><li><b>Waste and Natural Resources Management</b><ul style="list-style-type: none"><li>*Definition of natural resources</li><li>*Forest, air , water, and water harvesting , municipal solid waste management</li><li>*Concept of sustainable development</li><li>*Sustainable Development Goals ( SDGs) Meaning and Sources of conventional and non- conventional energy</li></ul></li></ul>	15

<b>III</b>	<ul style="list-style-type: none"> <li>● <b>Interior Design</b> <ul style="list-style-type: none"> <li>*Elements of art and principles of design with reference to interior designing</li> <li>*Importance and classification of colours according to prang</li> <li>*Colour scheme and psychological effects of colours</li> </ul> </li> <li>Accessories in interior designing</li> </ul>	<b>15</b>
<b>IV</b>	<ul style="list-style-type: none"> <li>● <b>Furniture and Furnishing</b> <ul style="list-style-type: none"> <li>*Type of furniture</li> <li>*Contemporary trends in furniture</li> <li>*Wall and floor finishing</li> <li>*Window and window treatments</li> <li>*Fixture and lightings</li> </ul> </li> </ul>	<b>15</b>

**Suggested readings :**

- Koontz.H. and O'Donnel C., 2005, Management – A systems and contingency analysis of managerial functions. New York: McGraw-Hill Book Company
- Rao V.S. and Narayana P.S., Principles and Practices of Management, 2007, Konark Publishers Pvt. Ltd.
- Adler, David. 2004, Metric Handbook planning & Design, Architectural press.
- Deacon R.E. and Firebaugh F.M. (1998) Family Resource Management- Principles and application. N. Delhi.: Roy Houghton Mifflin Company.
- Gross, I.H. and Crandall, E.H. (1967). Management for Modern Families. N. Delhi: Sterling Publishers Ltd?
- Moorthy G. (Ed.). (1985). Home Management. N. Delhi.: Arya Publishers,
- Lawrence M, (1987), Interior Decoration, New Jersey: Chartwell Books.
- Riley & Bayen., (2003), The Elements of Design, Mitchell Beazley
- Nickell, P., and Dorsey, J, M. (2002). Management in Family Living. New Delhi: CBS Publishers (ISBN 13: 9788123908519)
- Patni Manju & Sharma Lalita, Grah Prabandh, Star Publications Agra.
- Varma , Pramila. Vastu Vigyan Evam Paridhan:Madhya Pradesh Hindi Granth Academy,Bhopal.
- Varghese, M. A, Ogale, N. N and Srinivasan, K. (2001). Home Management. New Delhi. New Age International (P) Ltd.
- Halse Alvert O. (1978), The Use of Color in Interior (2nd Ed.), McGraw Hill books Comp. Ltd., New York.
- Rutt, Anna Hong (1949), Home Furnishing, John Willey and Sons Inc., New York.
- Gandotra, V.; Shukul, M. and Jaiswal, N. (2010), Introduction to Interior design
- Seetharaman P, and Pannu, P (2005), Interior Design & Decoration, CBS Publishers & Distribution, New Delhi.

**B.A.4 Semester VIII Home Science Paper-3**  
**Human Development and Behavioral Theories**

Graduation with Honours	Year :4	Semester-VIII
Subject: Home Science		
Course Code: A130803TN	Course Title: Human Development and Behavioral Theories	
Course Outcomes: <ul style="list-style-type: none"><li>To Undertake study of the stages in human development with specific focus on prenatal development in childhood.</li><li>To Understand and demonstrate the basics of knowledge relating to human development.</li><li>To provide an understanding of various theories of human development.</li></ul>		
Credits: 4	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks : –	
Total No of Lectures:60		
UNITS	TOPICS	No. of LECTURES
I	<b>Human Development</b> <ul style="list-style-type: none"><li>Concept, need, principles of growth and development, Nature Vs Nurture issues.</li><li>Prenatal development: conception , stages of Prenatal Development</li><li>Factors affecting prenatal development, hazards and complications during pregnancy.</li><li>Birth process and types of birth.</li></ul>	15
II	<b>Infancy</b> <ul style="list-style-type: none"><li>Physical and motor development.</li><li>Social and emotional development</li><li>Language development.</li><li>Factors affecting Physical, Motor, Social, Emotional and language development.</li></ul>	15
III	<b>Early and Middle Childhood</b> <ul style="list-style-type: none"><li>Physical and motor development.</li><li>Social and emotional development.</li><li>Language development.</li><li>Factors affecting Physical, Social, Emotional and language development.</li></ul>	15



IV	<b>Introduction to Theories of Human Development</b> <ul style="list-style-type: none"> <li>● Cognitive development theory of Piaget.</li> <li>● Psychoanalytic theory of Freud.</li> <li>● Psycho social theory of Erikson.</li> <li>● Social learning theory by Albert Bandura.</li> </ul>	15
<p><b>Suggested readings:</b></p> <ul style="list-style-type: none"> <li>● Atchley Robers. C (2001) Continuity and adaptation in aging: Creating positive experiences.</li> <li>● Baars et al. (2006). Aging globalization and inequality: The new critical gerontology.</li> <li>● Broderick. P.C (2003). The life span, Human Development. for helping professionals.</li> <li>● Oray. M.G (1992). Aging health and behaviour. Sage publications</li> <li>● Kumudini Dandekar (1996). The elderly in India. A Sage publications</li> <li>● Moody, Harry. R. (2002). Aging: concepts and controversies, 4th Edn.</li> <li>● The Psychology of later life: L.R.Aiken, WB Saunders Company. Philadelphia,</li> <li>● Aged: Their Understanding &amp; Care: Klaus Bergramann, London Wolfe Publications. London</li> <li>● Handbook of ageing &amp; Social Sciences: R.H. Binstock &amp; E. Shanes, V.N. Reinhold, Co.New York</li> <li>● Old age in a changing society: ZanaSmith, Blau, New View prints. New York</li> <li>● Ageing in India: Problems and potentialities: A.B.Bose, &amp; K.D Gangrade Abhina</li> </ul>		

**B.A. 4 Semester VIII Home Science Paper-4**  
**Gender Sensitization for Women Empowerment (Theory)**

Graduation With Honours	Year 4	Semester VIII
Subject. Home Science		
Course Code:A130804TN	Course Title: Gender Sensitization for Women Empowerment	
Course Outcomes: The students at the completion of the course will be able to: <ul style="list-style-type: none"> <li>● To get sensitise to gender disparities and problems of women</li> <li>● To understand the concept of need relevance and dimensions of gender Empowerment</li> <li>● To understand the efforts at different levels for empowering women</li> </ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
No. Of Lectures–60		
Units	Topics	No.of Lectures
I	Gender-Gender role perceptions <ul style="list-style-type: none"> <li>● Concept Definition difference between gender and sex, changing trends</li> <li>● Gender Stereotype</li> <li>● Gender main streaming</li> <li>● Gender sensitization-Concept and methods</li> </ul>	12
II	Gender Empowerment <ul style="list-style-type: none"> <li>● History of Women Empowerment</li> <li>● Gender Analysis Matrix</li> <li>● Situation Analysis and Other Methods</li> <li>● Productive Health Index ,Human Development</li> </ul>	15
III	Policies and Programmes for Women Development <ul style="list-style-type: none"> <li>● National and International Policies for Woman Empowerment.</li> <li>● Economic Empowerment</li> <li>● Social Empowerment ,</li> <li>● Legal Empowerment</li> </ul>	18

IV	<p>Development of Women Entrepreneurship</p> <ul style="list-style-type: none"> <li>● Definition, meaning, Importance, scope and process of entrepreneurship</li> <li>● Types and function of entrepreneurship</li> <li>● Sources of Financial Institution for funding to start entrepreneurship</li> </ul>	15
<p>Suggested Readings:</p> <ul style="list-style-type: none"> <li>● Stree shahktikaran K aham-Kavita sharma-Rajat</li> <li>● Akhauri MMP: 1990, Entrepreneurship for women in India, NIESBUD, New Delhi.</li> <li>● Patel V. Women Entrepreneurship, Ahmedabad</li> </ul>		

**B.A. 4 Semester-VIII Home Science Paper-5**  
**Therapeutic Diet & Family Resource Management (Practical)**

Degree With Honors	Year :4	Semester VIII
Subject. Home Science		
Paper Code: A130805PN	Paper Title: Therapeutic Diet Preparation & Family Resource Management	
Credits: 2		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
No. of Lab. Periods :60(120 hours)		
Units	Topics	No. of lab. periods
I	<ul style="list-style-type: none"> <li>Calculation, Cooking and Dietary Counselling for various Diseases.</li> <li>Febrile Conditions– High-Calorie, High Protein Diet .</li> </ul>	20
II	<ul style="list-style-type: none"> <li>Gastrointestinal Disorders– Soft and Low Fibre Diet</li> <li>Kidney diseases – Low Sodium, Low Protein Diet .</li> </ul>	20
III	<ul style="list-style-type: none"> <li>Diabetes Mellitus– Low Carbohydrate, Moderate Protein Diet</li> <li>Post Surgery Diet –High</li> </ul>	20
One out of the following:- <ul style="list-style-type: none"> <li>Report on Housing Finance Agencies.</li> <li>Report On Space Saving Furniture.</li> <li>Report on Housing Construction Problem in Urban Area.</li> </ul>		

**OR**  
**FOUR YEAR GRADUATION DEGREE (HONOURS WITH RESEARCH)**

For the Honours Degree With Research in the Fourth year, the students will have to do a compulsory Research Project. This research project will be of 4 credits .Only those students will be eligible for the Honours Degree with Research in the fourth year who have more than 75% marks In the first 6 semesters.

**B.A.4 Semester VII Home Science Paper-I**  
**Advanced Nutrition and Institutional Management (Theory)**

Graduation Honours with Research	Year:4	Semester VII
Subject :-Home Science		
Course Code: A130701TN	Course Title :Advanced Nutrition and Institutional Management	
COURSE OUTCOMES: <ul style="list-style-type: none"><li>To enable the students to understand the basic attributes regarding food</li><li>To understand the special characteristics of Food Science establishments.</li><li>To acquaint yourself with the importance of various foods and nutrients in human nutrition.</li><li>To develop a knowledge base in Key areas of Institutional Food Administration.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
TOTAL NO. OF LECTURES – 60		
Units	Topics	No. Of Lectures
I	<ul style="list-style-type: none"><li>Recommended dietary allowances meaning, Importance, uses and basis for the ICMR dietary allowances guidelines, Reference man and Reference women</li><li>NUTRIENTS : Micro and Macro</li><li>CARBOHYDRATES: Sources, classification, function, deficiency diseases, brief idea about Metabolism of Glucose, elementary idea about</li></ul>	35

	<p>Glycolysis, Gluconeogenesis and Glycemic Index of Food, Elementary idea of regulation of Blood Sugar Level.</p> <ul style="list-style-type: none"> <li>• PROTEINS: Sources, classification, function, deficiency diseases, protein digestion and elementary idea about meaning and assessment of protein quality</li> <li>• LIPIDS: Sources, classification, function, deficiency diseases and digestion of fat ,brief idea about saturated and polyunsaturated fatty acids</li> <li>• VITAMINS and MINERALS: sources, classification, functions, deficiencies and toxicity, Trace minerals: Iron and Zinc, Major Elements – Calcium, Phosphorus, Zinc, Iodine.</li> <li>• DIETARY FIBER: Sources and Nutritional</li> <li>• significance</li> </ul>	
II	<ul style="list-style-type: none"> <li>• FOOD PREPARATION: Methods and their effects on Nutritional values of food and prevention of nutrient losses during cooking, enhancement of nutritional value during cooking</li> <li>• Meal planning: Principles involved in planning Menus</li> </ul>	05
III	<ul style="list-style-type: none"> <li>• Concept n definition of catering services in various institutions</li> <li>• Types of Food services-Hospital, schools, industrial canteens, travel catering etc</li> </ul>	09
IV	<ul style="list-style-type: none"> <li>• Type of Menu-Cyclic,Ala-a-Carte, Table-d-hote, Buffet etc</li> <li>• Serving meals for large groups and its management- Hostel, Canteen, Hospital, Railways and Airlines, ships etc</li> </ul>	11

#### **SUGGESTED READINGS :**

9. Textbook of Human Nutrition : Banji, Rao & Reddy
10. Essential of Food & Nutrition : M. Swaminathan
11. Advanced Text book on Foods & Nutrition Vol-I & II : M. Swaminathan
12. Normal & Therapeutic Nutrition : Proudfit & Fobeaon
13. Catering Management ; An Integrated approach : Sethi M. Malhans S (1993)
14. Applied Nutrition : R. Rajlaxmi
15. Food Science and Nutrition, Sunetra Roday, II Edition Oxford University Press
16. Mahan L.K. & Escott-Stump, S. (2000): Krause's Food Nutrition and Diet Therapy, 10th Edition W.B. Saunders Ltd.

**B.A.4 Semester VII Home Science Paper-II**  
**Fashion Design and Traditional Textiles (Theory)**

<b>Graduation Honours with Research</b>	<b>Year:4</b>	<b>Semester: VII</b>
<b>Subject: Home Science</b>		
<b>Course Code: A130702TN</b>	<b>Course Title: Fashion Design and Traditional Textiles</b>	
Course Outcomes:		
<ul style="list-style-type: none"><li>• Students will gain knowledge of types of Designs, Elements and Principles of Designs and their application to Fashion Design</li><li>• Students will develop understanding regarding fashion, its movement and consumer behaviour.</li><li>• Students will be able to appreciate traditional textiles and embroideries of India viz a viz their material, colour, textures and motifs.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
Total No. of Lectures-60		
<b>Units</b>	<b>Topics</b>	<b>No. of Lectures</b>
I	Design Analysis With Respect to Fashion and Textile Design <ul style="list-style-type: none"><li>• Designs: structural, decorative, abstract</li><li>• Introduction to applied art<ul style="list-style-type: none"><li>• Elements of design</li><li>• Principles of design</li></ul></li></ul>	15
II	Introduction to Fashion <ul style="list-style-type: none"><li>• Fashion: Terminology, characteristics, contrast with customs and role in modern society</li><li>• Theories of Fashion adoption</li><li>• Fashion cycle</li><li>• Factors influencing fashion</li></ul>	10
III	Introduction to Traditional Indian Textiles <ul style="list-style-type: none"><li>• Bengal Textiles: Dhaka Muslins,Baluchari and Jamdani</li><li>• Kashmir shawls</li><li>• Textiles from Madhya Pradesh:Chanderi and Maheshwari</li><li>• Brocades:Banaras Brocades, Brocades of Aurangabad, Brocades of Gujarat</li><li>• Resist dyed textiles:<ul style="list-style-type: none"><li>▪ Yarn dyed textiles :Patolas of Gujarat,Ikat Textiles of</li></ul></li></ul>	18

	<p>Orissa, Pochampalli of Telangana</p> <ul style="list-style-type: none"> <li>▪ Fabric dyed textiles: Tie and Dye of Rajasthan and Gujarat.</li> <li>• Traditional printed and painted textiles of India Study of above traditional textiles with emphasis to texture, design, and colour</li> </ul>	
IV	<p>Introduction to Traditional Indian Embroideries</p> <ul style="list-style-type: none"> <li>• Embroideries of Uttar Pradesh: Chikankari and Zardozi</li> <li>• Kasuti of Karnataka</li> <li>• Phulkari of Punjab</li> <li>• Kashida of Kashmir</li> <li>• Kantha of Bengal</li> <li>• Embroideries of Gujarat :Kutch,Kathiyawad, and Sindh</li> <li>• Embroidery of Himachal Pradesh: ChambaRumal</li> <li>• Embroidery of Manipur</li> <li>• Embroideries of Bihar: Sujini and khatwa(patch and applique work)</li> </ul> <p>Study of above traditional embroideries with emphasis to fabric, threads, motifs and colour.</p>	17
<p><b>Suggested Readings:</b></p> <ul style="list-style-type: none"> <li>• Vaibhav Dhange , Elements and Principles of fashion design (for beginners),Lambert Academic publishing</li> <li>• Sumathi G J, Elements of fashion and apparel design , New Age International Publishers</li> <li>• Santosh Bataliya (2002), Bharat ki Paramparagat kasidakari, Traditional Embroidery of India, Madhya Pradesh Hindi Granth Academy,</li> <li>• Shailaja.Naik, Traditional Embroideries of India, South Asia Books.</li> <li>• Anjali Karolia, Traditional Indian Handcrafted Textiles, Niyogi books Pvt. Ltd.</li> <li>• Martand Singh, Handcrafted Indian Textiles, Lustre</li> <li>• John Gillow, Indian textiles ,Om books International</li> <li>• Minakshi Prakash, Fashion Theory, Lord Publishing House</li> <li>• Suggested Digital Platforms ,web Links- <ul style="list-style-type: none"> <li>• <a href="http://www.textilelearner.blogspot.com">www.textilelearner.blogspot.com</a></li> <li>• <a href="http://www.slideshare.net/MohaddesaDehghani/fashion-terminology">www.slideshare.net/MohaddesaDehghani/fashion-terminology</a></li> <li>• <a href="http://www.slideplayer.com/slide/4888082">www.slideplayer.com/slide/4888082</a></li> <li>• <a href="http://www.braincraft.com/article/theories of fashion _35653">www.braincraft.com/article/theories of fashion _35653</a></li> </ul> </li> </ul>		



**B.A.4 Semester VII Home Science Paper-III**  
**Research Methodology (Theory)**

<b>Graduation Honours with Research</b>	<b>YEAR – 4</b>	<b>SEMESTER-VII</b>
<b>SUBJECT – HOME SCIENCE</b>		
<b>Course Code: A130703TN</b>	<b>Course Title : Research Methodology</b>	
<b>COURSE OUTCOMES:</b>  This course will enable the students to – <ul style="list-style-type: none"><li>• To understand the significance of research methodology in Home Science</li><li>• To understand the types, tools and methods of research</li><li>• To develop the ability to construct data gathering instruments of the research design.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : –
TOTAL NO. OF LECTURES – 60		
<b>Units</b>	<b>Topics</b>	<b>No. of Lectures</b>
I	<ul style="list-style-type: none"><li>• Definition &amp; meaning and importance of research, its nature and scope.</li><li>• Characteristics of Scientific research</li><li>• Steps in Research</li><li>• Basic principal of research design</li><li>• Recent trends in research in Home - Science</li></ul>	15
II	<ul style="list-style-type: none"><li>• Research methods &amp; procedures/ Types of research, characteristics, advantages and disadvantages of research.</li><li>• Historical Research</li><li>• Descriptive Research</li><li>• Experimental Research</li><li>• Survey research</li><li>• Field Research</li><li>• Reliability and Validity test – meaning and types</li></ul>	25
III	<ul style="list-style-type: none"><li>• Research Problem</li><li>• Definition, importance, source and types of research problem</li></ul>	10

IV	<ul style="list-style-type: none"> <li>Hypothesis – Definition, importance and types of hypothesis testing of hypothesis – Type I and Type II errors, level of significance.</li> </ul>	10
<p><b>SUGGESTED READINGS:</b></p> <ol style="list-style-type: none"> <li>10. Bhandarkar, P.L. and Wilkinson T.S. (2000): Methodology and Techniques of Social Research Himalaya Publishing House, Mumbai.</li> <li>11. Bhatnagar, G.L. (1990): Research Methods and Measurements in Behavioural and Social Sciences, Agri, Cole Publishing Academy, New Delhi</li> <li>12. Gay, L.R. (1981, 2nd Ed): Educational Research, Charles, E. Merrill, Columbus, Ohio</li> <li>13. Mukherjee, R. (1989): The Quality of Life: Valuation Social Research Sage Publications, New Delhi.</li> <li>14. Research Methods in Behavioral Science, Kapil. K.E.</li> <li>15. Foundations Behavioral, Kerlinger. &amp; Research</li> <li>16. Anusandhaan Parichay, Paras Nath Rai</li> <li>17. Educational Research Methods, Sareen Sareen</li> <li>18. Anusandhaan Vidhiyan, Srivastava, D.N.</li> </ol>		

**B.A.4 Semester VII Home Science Paper-IV**  
**Design Ideals for Sketching and Traditional Textiles +Extension Education (Practical)**

<b>Graduation Honours with Research</b>	<b>Year-4</b>	<b>SEMESTER-VII</b>
<b>Subject: Home Science</b>		
<b>Course Code:</b> <b>A10704PN</b>	<b>Course Title: Design Ideals for Sketching and Traditional Textiles +Extension Education</b>	
Course Outcomes:		
<ul style="list-style-type: none"><li>● Students will learn to apply design ideals to fashion sketching.</li><li>● Students will be able to drape the desired idea of their design on to Croqui/fashion figure.</li><li>● Students will learn the creative art of Embroidery.</li><li>● Students will learn various Embroidery stitches used in traditional Embroideries.</li><li>● Students will learn to apply Indian Traditional designs and motifs to contemporary design.</li><li>● Student will have an experience of being an Extension Worker.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : 10+25
Total No. of Lab. Periods-60 (120 hours)		
<b>Units</b>	<b>Topics</b>	<b>No. of Lab. Periods</b>
I	Design ideals for fashion Sketching  ii. Basics of colour <ul style="list-style-type: none"><li>● Hue</li><li>● Colour wheel</li><li>● Value Chart</li><li>● Intensity Chart</li></ul> iii. Grey scale	05
II	Application of Elements of Art in Fashion Designing  ii. Dressing up of Croquis in sketch file using <ul style="list-style-type: none"><li>● Various lines</li><li>● Various colour schemes</li><li>● Various silhouettes</li></ul> iii. Collecting samples of various fabric textures and preparing a “texture Sheet” iv. Collecting various trimmings for making “Trimming sheet”	15

III	<p>Application of Principles of Art in Fashion Designing</p> <p>ii. Dressing up of Croquis in sketch file using</p> <ul style="list-style-type: none"> <li>● Proportion</li> <li>● Balance</li> <li>● Rhythm</li> <li>● Emphasis</li> <li>● Harmony</li> </ul>	05
IV	<p>Traditional Indian Embroideries and Textiles</p> <p>i. Make hand embroidered samples of each Traditional Indian embroidery</p> <p>ii. Collect samples of Traditional Indian Textiles</p> <p>iii. Make a file of Designs &amp; Samples of Traditional Textiles and Embroideries.</p>	20
V	<p>Extension Education</p> <p>i. Preparation of Teaching aid on any current social issue for spreading awareness in community</p> <p>ii. Visit to nearby slum area with an objective to study the problems faced by slum dwellers (using Survey method)</p> <p>iii. Preparation of report based on the survey conducted.</p>	15

**Research Project/Dissertation**

Graduation Honours with Research	Year:4	Semester: VII
Subject :Home Science		
Course Code: A130705RN	Course Title: Research Project /Dissertation (Progressive)	
<b>Course Outcomes:-</b> <ul style="list-style-type: none"><li>● After completion of the course the students will have a comprehensive understanding about Developing and carrying out a Research Proposal.</li></ul>		
Credits: 4	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks –	
<ul style="list-style-type: none"><li>● Selection of Topic and Proposal Drafting</li><li>● Brief Introduction</li><li>● Review of Literature</li></ul>		
<b>Suggested Continuous Methods:</b> <ul style="list-style-type: none"><li>● PPT Presentation Of Proposal Drafting(20 Marks)</li><li>● Attendance(5 marks)</li></ul>		

**B.A.4 Semester VIII Home Science Paper-1**  
**Therapeutic Management and Community Nutrition (Theory)**

<b>Graduation Honours with Research</b>	<b>YEAR – 4</b>	<b>Semester-VIII</b>
<b>SUBJECT – HOME SCIENCE</b>		
<b>Course Code: A130801TN</b>	<b>Course Title :Therapeutic Management and Community Nutrition</b>	
<b>Course Outcomes:</b> This course will enable the students to – <ul style="list-style-type: none"><li>❖ Understand the principle of diet therapy.</li><li>❖ Understand the modification of normal diet for therapeutic purposes</li><li>❖ Understand the dietary modifications for various disease conditions</li><li>❖ Understand the concept and methods of community nutrition.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : -
Total No. Of Lectures – 60		
<b>Units</b>	<b>Topics</b>	<b>No. Of Lectures</b>
I	<ul style="list-style-type: none"><li>❖ Basic concepts, objectives and scope of therapeutic diets</li><li>❖ Adaptation of Normal diets for therapeutic purposes-Liquid, Soft, full fluid, clear fluid diet, bland diet</li><li>❖ Various Nutritional support to patients -Oral feeding, tube feeding etc</li></ul>	10
II	<ul style="list-style-type: none"><li>❖ Etiology, Causative Factors, preventive measures and planning of diets in</li><li>❖ Febrile conditions - Acute fever ,T.B, Typhoid</li><li>❖ G.I. disorders -Diarrhoea, Constipation, peptic ulcer</li><li>❖ Liver diseases-Liver cirrhosis, jaundice</li><li>❖ Kidney diseases Acute and chronic Nephritis</li><li>❖ Diabetes Mellitus classification, symptoms, metabolic changes and dietary management</li><li>❖ Diet in Coronary Heart disease, Hypertension</li><li>❖ Diet in cancer, thyroid problems, Anaemia</li><li>❖ Diet in post operative cases</li></ul>	35

III	<ul style="list-style-type: none"> <li>❖ Assessment of the Nutritional status of the community: Anthropometric, Biochemical and biophysical investigations, Clinical examination, Dietary surveys</li> <li>❖ The study of Vital statics</li> </ul>	10
IV	<ul style="list-style-type: none"> <li>❖ Methods and aids in Imparting Nutrition Education</li> <li>❖ calculation, cooking and dietary counselling for various diseases</li> <li>❖ Febrile Conditions – High Calorie, High Protein diet.</li> <li>❖ Gastrointestinal Disorders – Soft and Low Fiber Diet</li> <li>❖ Kidney Diseases – Low Sodium, Low Protein Diet.</li> <li>❖ Diabetes Mellitus – Low carbohydrate, Moderate Protein diet.</li> <li>❖ Post Surgery diet – High protein, vitamin – C and Iron rich diets.</li> </ul>	5

**SUGGESTED READINGS :**

8. Robinson & Lawler : Normal & Therapeutic Nutrition
  9. Capalan Cetal : Nutrition Value of Indian Food
  10. Bakshi B.K. : Upchararth Aahar aur Samudayik Poshan
  11. Antia : Clinical Dietetics & Nutrition
  12. Mahan, L.K. and Escott-Stump. S. (2000): Krause's Food Nutrition and Diet Thepapy, 10th Edition, W.B. Saunders Ltd.
  13. Williams, S.R. (1993): Nutrition and Diet Therapy, 7th Edition, Times Mirror/ Mosby College Publishing.
  14. Davis, J. and Sherer, K. (1994): Applied Nutrition and Diet Therapy for Nurses, 2nd Edition W.B. Saunders Co.
- Fauci, S.A. et al (1998) : Harrioson's Principles of Internal Mdecine, 14th Edition, McGraw Hill

**B.A 4 Semester VIII Home Science Paper-2**  
**Advanced Resource Management and Interior Design (Theory )**

<b>Graduation Honours with Research</b>	<b>Year: 4</b>	<b>Semester: VIII</b>
<b>Subject: Home Science</b>		
<b>Course Code: A130802TN</b>	<b>Course Title: Advanced Resource Management and Interior Design</b>	
<b>Course outcomes :</b> <ul style="list-style-type: none"><li>● To increase the awareness and importance of resources</li><li>● To develop the ability to evaluate the management system in family</li><li>● Understand the Decision making and use of resources throughout the Family life cycle</li><li>● To plan furniture arrangement and colour schemes for different rooms.</li><li>● To orient the students towards current trends in furnishing material, furniture, flooring &amp; curtain etc.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : -
<b>Total No. of Lectures- 60</b>		
<b>Units</b>	<b>Topics</b>	<b>No. of Lectures</b>
<b>I</b>	<b>Home Management</b> <ul style="list-style-type: none"><li>a. Definition and philosophy of home management</li><li>b. Role of home management in family living history and development of home management in India</li><li>c. Elements involved in management process and decision making</li><li>d. Classification of resources, factors affecting their uses</li><li>e. Motivation theories – Maslow’s theory, Herzberg’s theory</li></ul>	<b>15</b>
<b>II</b>	<b>Waste and Natural Resources Management</b> <ul style="list-style-type: none"><li>a. Definition of natural resources</li><li>b. Forest, air , water, and water harvesting , municipal solid waste management</li><li>c. Concept of sustainable development</li><li>d. Sustainable development goals ( SDGs)</li></ul> Meaning and Sources of conventional and non-conventional energy	<b>15</b>



III	<b>Interior Design</b> <ol style="list-style-type: none"> <li>Elements of art and principles of design with reference to interior designing</li> <li>Importance and classification of colours according to prang</li> <li>Colour scheme and psychological effects of colours Accessories in interior designing</li> </ol>	15
IV	<b>Furniture and Furnishing</b> <ol style="list-style-type: none"> <li>Type of furniture</li> <li>Contemporary trends in furniture</li> <li>Wall and floor finishing</li> <li>Window and window treatments</li> <li>Fixture and lightings</li> </ol>	15
<b>Suggested readings :</b> <ul style="list-style-type: none"> <li>➤ Koontz.H. and O'Donnel C., 2005, Management – A systems and contingency analysis of managerial functions. New York: McGraw-Hill Book Company</li> <li>➤ Rao V.S. and Narayana P.S., Principles and Practices of Management, 2007, Konark Publishers Pvt. Ltd.</li> <li>➤ Adler, David. 2004, Metric Handbook planning &amp; Design, Architectural press.</li> <li>➤ Deacon R.E. and Firebaugh F.M. (1998) Family Resource Management- Principles and application. N. Delhi.: Roy Houghton Mifflin Company.</li> <li>➤ Gross, I.H. and Crandall, E.H. (1967). Management for Modern Families. N. Delhi: Sterling Publishers Ltd?</li> <li>➤ Moorthy G. (Ed.). (1985). Home Management. N. Delhi.: Arya Publishers,</li> <li>➤ Lawrence M, (1987), Interior Decoration, New Jersey: Chartwell Books.</li> <li>➤ Riley &amp; Bayen., (2003), The Elements of Design, Mitchell Beazley</li> <li>➤ Nickell, P., and Dorsey, J, M. (2002). Management in Family Living. New Delhi: CBS Publishers (ISBN 13: 9788123908519)</li> <li>➤ Patni Manju &amp; Sharma Lalita, Grah Prabandh, Star Publications Agra.</li> <li>➤ Varma , Pramila. Vastra Vigyan Evam Paridhan:Madhya Pradesh Hindi Granth Academy,Bhopal.</li> <li>➤ Varghese, M. A, Ogale, N. N and Srinivasan, K. (2001). Home Management. New Delhi. New Age International (P) Ltd.</li> <li>➤ Halse Alert O. (1978), The Use of Color in Interior (2nd Ed.), McGraw Hill books Comp. Ltd., New York.</li> <li>➤ Rutt, Anna Hong (1949), Home Furnishing, John Willey and Sons Inc., New York.</li> <li>➤ Gandotra, V.; Shukul, M. and Jaiswal, N. (2010), Introduction to Interior design</li> <li>➤ Seetharaman P, and Pannu, P (2005), Interior Design &amp; Decoration, CBS Publishers &amp;Distribution, New Delhi.</li> </ul>		

**B.A. 4 Semester VIII Home Science Paper-3**  
**Human Development And Behavioral Theories (Theory)**

Graduation+:Hono urs with Research	Year :4	Semester-VIII
Subject: Home Science		
Course Code: A130803TN	Course Title: Human Development and Behavioral Theories	
Course Outcomes: <ul style="list-style-type: none"><li>❖ To undertake study of the stages in human development with specific focus on prenatal development in childhood.</li><li>❖ To understand and demonstrate the basics of knowledge relating to human development.</li><li>❖ To provide an understanding of various theories of human development.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : -
Total No of Lectures:60		
Units	Topics	No. of Lectures
I	<b>Human Development</b> <ul style="list-style-type: none"><li>❖ Concept, need, principles of growth and development, Nature Vs Nurture issues.</li><li>❖ Prenatal development: conception , stages of Prenatal Development</li><li>❖ Factors affecting prenatal development, hazards and complications during pregnancy.</li><li>❖ Birth process and types of birth.</li></ul>	15
II	<b>Infancy</b> <ul style="list-style-type: none"><li>❖ Physical and motor development.</li><li>❖ Social and emotional development</li><li>❖ Language development.</li><li>❖ Factors affecting Physical, Motor, Social, Emotional and language development.</li></ul>	15

III	<b>Early and Middle Childhood</b> <ul style="list-style-type: none"> <li>❖ Physical and motor development.</li> <li>❖ Social and emotional development.</li> <li>❖ Language development.</li> <li>❖ Factors affecting Physical, Social, Emotional and language development.</li> </ul>	15
IV	<b>Introduction to theories of Human Development</b> <ul style="list-style-type: none"> <li>❖ Cognitive development theory of Piaget.</li> <li>❖ Psychoanalytic theory of Freud.</li> <li>❖ Psycho social theory of Erikson.</li> <li>❖ Social learning theory by Albert Bandura.</li> </ul>	15
<b>Suggested readings:</b> <ul style="list-style-type: none"> <li>● Atchley Robers. C (2001) Continuity and adaptation in aging: Creating positive experiences.</li> <li>● Baars et al. (2006). Aging globalization and inequality: The new critical gerontology.</li> <li>● Broderick. P.C (2003). The life span, Human Development. for helping professionals.</li> <li>● Oray. M.G (1992). Aging health and behaviour. Sage publications</li> <li>● Kumudini Dandekar (1996). The elderly in India. A Sage publications</li> <li>● Moody, Harry. R. (2002). Aging: concepts and controversies, 4th Edn.</li> <li>● The Psychology of later life: L.R.Aiken, WB Saunders Company. Philadelphia,</li> <li>● Aged: Their Understanding &amp; Care: Klaus Bergramann, London Wolfe Publications. London</li> <li>● Handbook of aging &amp; Social Sciences: R.H. Binstock &amp; E. Shanes, V.N. Reinhold, Co.New York</li> <li>● Old age in a changing society: ZanaSmith, Blau, New View prints. New York</li> <li>● Ageing in India: Problems and potentialities: A.B.Bose, &amp; K.D Gangrade Abhina</li> </ul>		

**B.A.4 Semester VIII Home Science Paper-4**  
**Therapeutic Diets Preparation and Family Resource Management (Practical)**

<b>Graduation Honours with Research</b>	<b>Year:4</b>	<b>Semester VIII</b>
<b>Paper Code:A130804PN</b>	<b>Paper Title: Therapeutic Diets Preparation &amp; Family Resource Management</b>	
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : -
Total No. of lab.periods-60 (120 hours)		
Units	Topics	No.of lab.periods
I	<ul style="list-style-type: none"> <li>● Calculation, Cooking and Dietary Counselling For various diseases .</li> <li>● Febrile Conditions- High-Calorie, High Protein.</li> </ul>	20
II	<ul style="list-style-type: none"> <li>● Gastrointestinal Disorders:Soft and Low Fibre Diet</li> <li>● Kidney Disease: Low Sodium, Low Protein Diet</li> </ul>	20
II	<ul style="list-style-type: none"> <li>● Diabetes Mellitus :Low Carbohydrate , Moderate Protein Diet .</li> <li>● Post Surgery Diet: High Protein , Vitamin C and Iron Rich Diets</li> </ul>	20
One out of the following:- <ul style="list-style-type: none"> <li>● Report on Housing Finance Agencies</li> <li>● Report on Space Saving Furniture</li> <li>● Report on Housing Construction Problem in Urban Area</li> </ul>		

**B.A.4 Semester VIII Home Science Paper-5****Research Project/Dissertation**

Graduation Honours with Research	Year:5	Semester: VIII
Subject :Home Science		
Course Code:A130805RN	Research Project /Dissertation ( Submitted)	
<p>Course Outcomes :-</p> <ul style="list-style-type: none"><li>● Learning of methods of data collection, analysis and interpretation using appropriate research tools .</li><li>● Students will be able to demonstrate the ability to write and present a structured report using standard citation and referencing style.</li></ul>		
Credits: 4	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks : -	
<ul style="list-style-type: none"><li>● Research Design and Methodology</li><li>● Data Collection</li><li>● Data Analysis and Interpretation</li><li>● Research Report Writing &amp; Presentation</li></ul>		
<p>Suggested Evaluation Methods:-</p> <ul style="list-style-type: none"><li>● Submission of Final Report &amp; PPT Presentation (20 marks)</li><li>● Attendance (5 marks)</li></ul>		

**FIFTH YEAR: MASTER IN FACULTY (4+1)****M.A. Semester IX Home Science Paper -1****PAPER: I Family Clothing and Apparel Construction (Theory)**

Master In Faculty M.A.in Home Science	Year:5	Semester IX
Subject: Home Science		
Course Code: A130901TN	Course Title: Family Clothing and Apparel Construction	
Course Outcomes: <ul style="list-style-type: none"><li>Students will learn all the factors affecting choice of family clothing.</li><li>Students will be able to plan wardrobe for the family</li><li>Students will gain Knowledge of different techniques of pattern making, their uses and application</li><li>Students will understand the importance of Fitting and gain knowledge of pattern alteration to attain good fit in garments.</li><li>Students will learn types, uses and importance of Layout.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : -
Total No. of Lectures-60		
Units	Topic	No. of Lectures
I	Family Clothing <ul style="list-style-type: none"><li>❖ Factors affecting family clothing</li></ul> Wardrobe planning for the family	20
II	Principles of Apparel Construction <ul style="list-style-type: none"><li>❖ Body measurements-Procedure, need, figure types and Anthropometry.</li><li>❖ Drafting</li><li>❖ Flat paper pattern</li><li>❖ Draping</li></ul>	20
III	Fitting Principles , common fitting problems for different figure types, their rectifications with special reference to <ul style="list-style-type: none"><li>❖ Short figures</li><li>❖ Thin figures</li><li>❖ Large and flat chest</li><li>❖ Flat and large hips</li><li>❖ Broad and narrow shoulders</li><li>❖ Long, short and thick necks</li></ul>	10

IV	<p>Layout Planning</p> <ul style="list-style-type: none"> <li>❖ Preparation of fabric for garment making</li> <li>❖ Definition and types of layout</li> <li>❖ Calculation and estimation of fabric for garment construction</li> </ul>	10
<p>Suggested Reading:</p> <ul style="list-style-type: none"> <li>➤ Helen Joseph Armstrong ,1987:Pattern Making for FashionDesign</li> <li>➤ Francesca Sterlacci: Pattern Making- Technique for Beginners, Laurence King Publishing.</li> <li>➤ Danilo Attardi : fashion Draping Techniques(vol.1), Hoaki</li> <li>➤ AllyneBane: Pattern Design, McGraw- Hill Inc.,U.S.</li> <li>➤ Natalie Bray : Dress fitting -Basic Principles and practice , Wiley Blackwell Publishing</li> <li>➤ Erwin ,Mabel D. : Practical Dress Design -Principles of Fitting and Pattern Making, Macmillan,New York</li> <li>➤ Mildred T. Tate, O. Glisson: Family clothing, John Wiley &amp; Sons Inc.</li> <li>➤ Mc Call and Marian Corey :Complete Book of Dressmaking , Greystone Press</li> <li>➤ Jennifer LyneMathews- Fairbanks: Pattern Design-fundamentals – construction and pattern making for fashion design, Fairbanks publishing.</li> </ul> <p>Suggested Digital Platforms, Web Links.</p> <ul style="list-style-type: none"> <li>● How patterns work- The fundamental Principles of Pattern Making and Sewing in Fashion Design by Assembil_Scribd.</li> <li>● <a href="https://www.brainkart.com">https://www.brainkart.com</a> Pattern Layout and types of Pattern layout-fabric preparation for sewing - Brainkart.</li> </ul>		

**M.A. Semester IX Home Science Paper-2**  
**Food Science and Quality Control (Theory)**

Master in Faculty (M.A. In Home Science)	Year:5	Semester:IX
Subject – Home Science		
CourseCode: A130902TN	Course Title : Food Science And Quality Control	
Course Outcomes :- <ul style="list-style-type: none"><li>❖ The students will learn about various tests and standards for quality assessment and food safety.</li><li>❖ Will make the students aware about the various tests used to detect food adulterants</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : -
TOTAL NO. OF LECTURES – 60		
Units	Topics	No .of Lectures
I	<ul style="list-style-type: none"><li>❖ Introduction to food Science: constituents for foods- General, physical chemical properties; colloidal systems, gels, emulsions</li><li>❖ Enzymes: importance of enzymes and their applications in food industry.</li></ul>	15
II	<ul style="list-style-type: none"><li>❖ Food fortification and food supplements</li><li>❖ Food pigments and additives.</li><li>❖ Food adulteration: Definition, common adulterates and simple method of Detection.</li><li>❖ Food packaging materials and food labeling.</li><li>❖ Leaving agents.</li><li>❖ Food Laws</li><li>❖ Immunity Enhancing Foods</li><li>❖ Immunity Enhancing Foods</li></ul>	20
III	<ul style="list-style-type: none"><li>❖ Evaluation of food</li><li>❖ Sensory Evaluation: definition 5 point scale and factor affecting food acceptance.</li><li>❖ Different type of tests for food evaluation-Difference test, triangle test, duo test, trio test.</li></ul>	15



IV	❖ Hazards to food products- Microbiological, environmental, natural, toxicants, pesticides and food additives.	10
<p><b>SUGGESTED READINGS:</b></p> <ul style="list-style-type: none"> <li>● Potter, N.N. (1996), Food Science, the AVI Publishing Company Inc., Westport Connecticut.</li> <li>● Jellinek, G. ((1985), Sensory Evaluation of Foods: Theory and Practice, Ellis Horwood Ltd. Chichester, England.</li> <li>● Manual of Food Standards and quality control (2014), Dept. of Food and Nutrition, CCS HAU, Hisar.</li> <li>● Pomeranz, Y. and Meloan, C.E. (1996): Food Analysis: Theory and Practice, CBS Publisher and Distributor, New Delhi.</li> <li>● Ranganna, S. (1986) : Handbook of Analysis and Quality Control for Fruit and Vegetable Products, 2nd Edition, Tata McGraw Hill Publishing Co. Ltd., New Delhi</li> <li>● Hagstad, H.V. and Hubbert, W.T. (1986): Food Quality Control, Foods of Animal Origin, Iowa State University Press, AMES.</li> </ul>		

**M.A. Semester IX Home Science Paper-3**  
**Application of Statistics for Research(Theory)**

Master In Faculty (M.A. In Home Science )	YEAR – 5	SEMESTER-IX
SUBJECT – HOME SCIENCE		
CourseCode : A130903TN	Course Title: Application of Statistics for Research	
COURSE OUTCOMES: ❖ Will develop the ability to construct data gathering instruments of the research design. ❖ Will be able analyse and interpret the data. ❖ Will be able to write research proposal.		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : -
TOTAL NO. OF LECTURES – 60		
Units	Topics	No. OF Lectures
I	❖ Variables – Meaning, types of variables dependent and independent variables. ❖ Sample and sampling technique a) What is a sample b) Sampling methods c) Advantages & limitations of sampling method. ❖ Probability and its concept, basic concept of probability ....	7
II	❖ Data collection tools and techniques – 1. Observation 2. Interview method 3. Questionnaire method 4. Social Metric Techniques 5. Rating Scales 6. Psychological test – their meaning, characterstics and types.	20

III	<ul style="list-style-type: none"> <li>❖ Meaning and scope of statistics, role of statistics in research.</li> <li>❖ Descriptive statistics, classification tabulation, frequency, distribution, diagrammatic and graphic representation of data.</li> <li>❖ Measures of central tendency – mean, median mode</li> <li>❖ Basic concepts of t-test, chi square test, coefficient correlation and its use in research</li> </ul>	25
IV	<ul style="list-style-type: none"> <li>❖ Analysis and interpretation of Data</li> <li>❖ Report writing or how to write a research proposal.</li> </ul>	8
<p><b>SUGGESTED READINGS :</b></p> <ol style="list-style-type: none"> <li>1. Doodley D. (1995) : Strategies for Interpreting Qualitative Data; Sage publications California</li> <li>2. Long J.S. (ED.)(1983) : Common Problems Proper Solutions : Avoiding Errors in Quantitative Research, Beverly Hills, Sage, Publications, California.</li> <li>3. Strauss, A. and Corbin, J (1990) : Basis of Qualitative Research : Grounded theory Procedure and Techniques, Sage Publications, California</li> <li>4. Educational Research Methods, Sareen &amp; Sareen</li> <li>5. Anusandhaan Vidhiyan, Srivastava, D.N.</li> </ol>		

**M.A. Semester IX Home Science Paper-4  
Garment Construction ( Practical)**

Master In Faculty (M.A.in Home Science)	Year-5	Semester-IX
Subject: Home Science		
Course Code: A130904PN	Course Title: Garment Construction	
Course Outcomes: <ul style="list-style-type: none"><li>Students will gain proper understanding of basics of pattern making.</li><li>Students will develop basic stitching skills.</li><li>Students will apply their pattern making and stitching skills to create design variations and construct garments</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : -
Total No. of Lab. Periods -60 (120 hours)		
Units	Topics	No. of Lab.Periods
I	Basic construction techniques (make samples) <ul style="list-style-type: none"><li>i. Seams</li><li>ii. Methods of fullness control<ul style="list-style-type: none"><li>Gathers</li><li>Pleats</li><li>Darts</li><li>Tucks</li></ul></li><li>iii. Neckline finishing</li><li>iv. Placket finishing</li><li>v. Collars-any five</li><li>vi. Sleeves-any five</li><li>vii. Different types of skirts</li><li>viii. Yokes-Functional and non-functional</li></ul>	20
II	Draftings <ul style="list-style-type: none"><li>i. Adults Bodice Block(with darts)and Sleeve Block</li><li>ii. Blouse<ul style="list-style-type: none"><li>Simple</li><li>With dart manipulation</li></ul></li><li>iii. SalwarSuit/Pant Suit/PlazoSuit</li><li>iv. Nighty/Gown</li></ul>	20

III	<p>Sessional work</p> <ul style="list-style-type: none"> <li>i. File:Drafting and Sample File</li> <li>ii. Stitching and finishing of Garments <ul style="list-style-type: none"> <li>● Nighty/Gown</li> <li>● Salwar Suit</li> <li>● Designer Blouse</li> </ul> </li> </ul>	20
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**M.A. Semester IX Home Science Paper -5****Research Project/Dissertation/Fieldwork**

Master In Faculty (M.A. In Home Science)	Year:5	Semester:IX
Subject :Home Science		
Course Code:A130905RN	Course Title: Research Project/ Dissertation/Field Work(Progressive)	
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks :-
<ul style="list-style-type: none"><li>● Selection of topics,</li><li>● Brief introduction</li><li>● Review of literature.</li></ul>		
<p>Suggested Continuous Methods :-</p> <ul style="list-style-type: none"><li>● PPT Presentation of Proposal Drafting(20 Marks)</li><li>● Attendance (5 Marks)</li></ul>		

**M.A. Semester X Home Science Paper-1**  
**Advanced Human Development (Theory)**

Master In Faculty (M.A. in Home Science)	Year-5	Semester: X
Subject-Home Science		
Course Code : A131001TN	Course Title: Advanced Human Development	
Course Outcomes		
<ul style="list-style-type: none"><li>❖ To understand development in adolescence.</li><li>❖ To understand challenges faced by adults.</li><li>❖ To understand elderly problems and requirements.</li><li>❖ To understand meaning and scope of gerontology.</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : -
Total No. of Lectures-60		
Units	Topics	No. of Lecture
I	<b>Adolescence:</b> <ul style="list-style-type: none"><li>❖ Physical development, Primary and Secondary sex characteristics.</li><li>❖ Social and Emotional development.</li><li>❖ Identify formation.</li><li>❖ Problems during adolescent.</li></ul>	15
II	<b>Adulthood:</b> <ul style="list-style-type: none"><li>❖ Early Adulthood - Significance of the period, change in responsibilities and adjustment.</li><li>❖ Middle Adulthood – Physical changes , Changing role in the family</li><li>❖ Late Adulthood - Change in Personality and Social relationship, Health and Disease.</li></ul>	15

III	<b>Gerontology</b> <ul style="list-style-type: none"> <li>❖ Concept, Need and importance of gerontology.</li> <li>❖ Demographic trends in India.</li> <li>❖ Emergence and scope of gerontology and elderly care.</li> </ul>	15
IV	<b>Problems of Aging</b> <ul style="list-style-type: none"> <li>❖ Physiological and psychological.</li> <li>❖ Social and Economic aspects of security.</li> <li>❖ Malnutrition in elderly.</li> </ul>	15

**Suggested readings:**

- ❖ Psychology of Adolescent- S.S. Chauhan , Allied publishers private limited, New Delhi.
- ❖ Adolescent Development –D.E.Balk, Brooks/ Cole, New York.
- ❖ The Life span ,Human Development for helping professionals ;Broderick.P.C.(2003).
- ❖ Identity: Youth and crisis-E.H.Erikson,Faber & Faber,London.
- ❖ Identity & Adulthood-S.Kakar-Oxford University Press.
- ❖ Invisible Boundaries:Grooming for adult roles-T.S. Saraswathi & R.Dutta-Northern Book Centre.
- ❖ Encyclopedia of Child Development-Anmol Publications,New Delhi.
- ❖ Baars et al.(2006).Aging globalization and inequality:The new critical gerontology.
- ❖ Broderick.P.C.(2003).The life span,Human development for helping professionals.
- ❖ Oray.M.G.(1992).Aging health and behavior.Sage publications.
- ❖ Kumudini Dandekar(1996).The elderly in India.Sage publications.
- ❖ The Psychology of later life:L.R.Aiken,WB Saunders Company.Philadelphia.
- ❖ Aged:Their Understanding & Care:Klaus Bergmann,London Wolfe Publications.London.



**M.A. Semester X Home Science Paper-2**  
**Advanced Housing & Ergonomics (Theory)**

Master InFaculty (M.A. In Home Science)	Year-5	Semester : X
Subject: Home Science		
Course Code :A131002TN	Course Title: Advanced Housing and Ergonomics	
Course outcomes : <ul style="list-style-type: none"><li>To Understand the fundamentals of house planning &amp; awareness of financial agencies</li><li>To make students aware about space planning basic zones of house</li><li>To make students aware about basic knowledge of ergonomics</li></ul>		
Credits: 4		Core Compulsory
Max. Marks: 25+75		Min. Passing Marks : -
Total No. of Lectures- 60		
Units	Topics	No. of Lectures
I	<b>Housing</b> Need -protective, Economic, Psychological and Social <ul style="list-style-type: none"><li>Type and principle of house planning</li><li>Factor affecting house planning</li><li>Present housing constructions in urban and rural areas</li></ul>	13
II	<b>Housing Construction and Financial Agencies :-</b> Meaning importance and type of housing finance-Home Expansion/Improvement Financial agencies-LIC,Co-Operative Societies, HUDCO. <ul style="list-style-type: none"><li>Building material used in construction of a house.</li><li>Architectural symbols</li><li>Building bye laws</li></ul>	17
III	<b>Space Planning in basics zone of house</b> <ul style="list-style-type: none"><li>Definition need and principle of space planning</li><li>Architectural and interior space.</li><li>Common blueprint symbols</li><li>Living zone - Drawing room, Dining room, Living room.</li><li>Private zone - Bedroom, Bathroom &amp; Dressing room.</li><li>Work zone – Kitchen, Laundry room and Home office.</li><li>Importance of room relationship</li></ul>	15

<b>V</b>	<b>Ergonomics</b> <ul style="list-style-type: none"> <li>• Definition, objective and importance of ergonomics.</li> <li>• Man - machine and environment relationship.</li> <li>• Study of different body postures used in various activities and their relationship to fatigue.</li> <li>• Definition of Human Anthropometry, static and Dynamic Anthropometry</li> </ul>	<b>15</b>
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**Suggested Reading :**

- Aveny, H. Household physics, Mac Millan Co.
- Kumar, Sushil, 2008, Building Construction, Standard publisher.
- Bali, K.K. Household Equipments, Orient paper backs, New Delhi.
- International Review of Ergonomics.
- Nag, P.K. Ergonomics and work design: Emerging issues in Organisational science, New Age International Ltd., New Delhi, 1996.
- Dalela S., 1983, Textbook of Work Study, 3rd Edition, Standard Publishers Distributors.
- Steidl and Bratton, 1967, Work in the Home. John Wiley and Sons. New York.
- Deshpande, R.S Modern Ideal Homes for India United book corporation
- Agan Tessie M.S The house its plan & use Gulab primlani
- Deshpande, R. S. (1974): Modern Ideal homes for India, United Book Corporation.
- Publication of Housing Boards, NBO, ISI, HUDCO etc.
- Seetharaman, P. & Pannu, P. (2015): Interior Design and Decoration, CBS Publishers, New Delhi.
- Gandotra, V. & Patel, S. (2017): Housing for Family Living, Dominant Publishers, New Delhi.

**M.A. Semester X Home Science Paper -3**  
**Communication for Development (Theory)**

Master In Faculty (M.A. In Home Science)		Year: 5	Semester: X
Subject: Home Science			
Course Code: A131003TN		Course Title: Communication for Development	
Course Outcomes: <ul style="list-style-type: none"><li>• The student at the completion of the course will be able to:</li><li>• To acquaint students with the communication process, recent advances in communication and diffusion and help students acquire necessary communication skills.</li></ul>			
Credits: 4		Core Compulsory	
Max. Marks: 25+75		Min. Passing Marks : -	
Total No. of Lectures-60			
Units	Topics		No. of Lectures
I	Communication <ul style="list-style-type: none"><li>• Meaning, concept, importance, elements, types and models</li><li>• Communication Approaches</li><li>• Individual, Groups and Mass</li><li>• Factors affecting their selection and use</li><li>• Barriers of Communication</li></ul>		15
II	Communication Skills <ul style="list-style-type: none"><li>• Role of ICT in Communication</li><li>• Soft skills</li><li>• Effective oral communication</li><li>• Public speaking</li><li>• Non-verbal communication</li><li>• Writing skills</li></ul>		10
III	Participative Communication <ul style="list-style-type: none"><li>• Meaning, process and determinants</li><li>• Development Communication - Concept nature and Significance</li></ul>		08

IV	<p>Recent Advances in Communication</p> <ul style="list-style-type: none"> <li>● Print and Electronic</li> <li>● Internet</li> <li>● Email</li> <li>● Fax</li> <li>● Mobile</li> <li>● Interactive video</li> <li>● Teleconferencing</li> <li>● Computer</li> <li>● Computer Networking (PAN, LAN, CAN, MAN, WAN)</li> </ul>	12
V	<p>Adoption and Diffusion</p> <ul style="list-style-type: none"> <li>● Concept and elements of diffusion</li> <li>● Stages of innovation</li> <li>● Decision process</li> <li>● Attributes and Consequences of Innovation</li> <li>● Adopters categories</li> </ul> <p>❖ Innovativeness</p>	15
<p>Suggested Readings:</p> <ul style="list-style-type: none"> <li>❖ Ray G.L. 1991. Extension and Communication and management.</li> <li>❖ Joshi Uma Understanding Development Communication. Dominant Publications, New Delhi.</li> <li>❖ Narula and Uma (2007) Development Communication Theory and Practice. Har Anand Publication Ltd., New Delhi.</li> <li>❖ Kuppaswamy B, Communication &amp; Social Development in India, Media Promoters &amp; Publishers Pvt. Ltd., Mumbai.</li> <li>❖ Singh Vrinda, Prasar Shiksha.</li> </ul>		

**M.A. Semester X Home Science Paper- 4**

**Field Based Learning: Community Interaction and Interior Design (Practical )**

<b>Master In Faculty (M.A. In Home Science)</b>	<b>Year:5</b>	<b>Semester: X</b>
<b>Subject :Home Science</b>		
<b>Course Code: A131004PN</b>	<b>Course Title: Field Based Learning: Community Interaction and Interior Design</b>	
<b>Credits: 4</b>		<b>Core Compulsory</b>
<b>Max. Marks: 25+75</b>		<b>Min. Passing Marks : -</b>
<b>Total No of Lectures</b>		
<b>I</b>	<b>1) Human Development:-Centers and Institutions for elderly: Recording information, observations and writing reports.</b>	<b>20</b>
<b>II</b>	<b>(2) Housing Management: - Market survey on any of the following a) Accessories in Interior Design. b) Fixture and Lighting c) Wall and Floor Finishing.</b>	<b>20</b>
<b>III</b>	<b>(3)Communication: - Making of PPT and Presenting Class Seminar Through it.</b>	<b>20</b>

**M.A. Semester X Home Science Paper-5**  
**Research Project/Dissertation/Fieldwork**

Graduation Honours with Research	Year:5	Semester: X
Subject :Home Science		
Course Code:A131005RN	Course Title: Research Project/ Dissertation/Field Work	
Credits: 4	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks : -	
<ul style="list-style-type: none"><li>● Research Design and Methodology</li><li>● Data Collection</li><li>● Data analysis and Interpretation</li><li>● Research Report Writing and Presentation</li></ul> <p>Suggested Evaluation Methods:-</p> <ul style="list-style-type: none"><li>● Submission of Final Report and PPT Presentation (20 marks)</li><li>● Attendance(5 marks)</li></ul>		

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