

MA-II (IV Semester)
ADVANCED HUMAN DEVELOPMENT
Paper-I Core (Theory)

Programme/Class: PG/M.A	Year : II	Semester: IV
Home Science		
Course Code : HS401	Course Title: Advanced Human Development	
Course Outcomes		
<ul style="list-style-type: none"> ❖ To understand development in adolescence. ❖ To understand challenges faced by adults. ❖ To understand elderly problems and requirements. ❖ To understand meaning and scope of gerontology. 		
Credits : 04	Core Compulsory	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
UnitS	Topic	No. of Lecture
I	Adolescence: <ul style="list-style-type: none"> ❖ Physical development, Primary and Secondary sex characteristics. ❖ Social and Emotional development. ❖ Identify formation. ❖ Problems during adolescent. 	15
II	Adulthood: <ul style="list-style-type: none"> ❖ Early Adulthood - Significance of the period, change in responsibilities and adjustment. ❖ Middle Adulthood – Physical changes , Changing role in the family ❖ Late Adulthood - Change in Personality and Social relationship, Health and Disease. 	15
III	Gerontology <ul style="list-style-type: none"> ❖ Concept, Need and importance of gerontology. ❖ Demographic trends in India. ❖ Emergence and scope of gerontology and elderly care. 	15

IV	Problems of Aging <ul style="list-style-type: none"> ❖ Physiological and psychological. ❖ Social and Economic aspects of security. ❖ Malnutrition in elderly. 	15
Practical :	Visit of Centers and Institutions for elderly. Recording information, observations and writing reports.	

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. II (IV Semester)
ADVANCED HOUSING AND ERGONOMICS
Paper-II Core (Theory)

Programme/Class:	Year: II	Semester: IV
Subject: Home Science		
Course Code: HS402	Course Title: Advanced Housing and Ergonomics	
Course outcomes : <ul style="list-style-type: none"> • To Understand the fundamentals of house planning & awareness of financial agencies • To make students aware about space planning basic zones of house • To make students aware about basic knowledge of ergonomics 		
Credits: 4	Core Compulsory	
Max. Marks: 25 + 75	Min. Passing Marks: 40	
Total No. of Lectures- 60		
Unit	Topic	No. of Lecture
I	Housing Need -protective, Economic, Psychological and Social <ul style="list-style-type: none"> • Type and principle of house planning • Factor affecting house planning • Present housing constructions in urban and rural areas 	13
II	Housing construction and financial agencies Meaning importance and type of housing finance-Home Expansion/Improvement <ul style="list-style-type: none"> • Financial agencies- LIC, Co-Operative Societies, HUDCO. • Building material used in construction of a house. • Architectural symbols • Building bye laws 	17
III	Space planning in basics zone of house <ul style="list-style-type: none"> • Definition need and principle of space planning • Architectural and interior space. • Common blueprint symbols 	15

	<ul style="list-style-type: none"> • Living zone - Drawing room, Dining room, Living room. • Private zone - Bedroom, Bathroom & Dressing room. • Work zone – Kitchen, Laundry room and Home office. • Importance of room relationship 	
IV	<p>Ergonomics</p> <ul style="list-style-type: none"> • Definition, objective and importance of ergonomics. • Man - machine and environment relationship. • Study of different body postures used in various activities and their relationship to fatigue. • Definition of Human Anthropometry, static and Dynamic Anthropometry 	15
<p>MANAGEMENT PRACTICAL: - Market survey on any of the following (A) Accessories in Interior Design. (B) Fixture and Lighting (C) Wall and Floor Finishing.</p> <p>EXTENSION PRACTICAL:- Making of PPT and Presenting Class Seminar Through it.</p>		
<p>Suggested Reading :</p> <ul style="list-style-type: none"> ➤ 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. II Semester IV Home Science
Paper - III (Core)
Communication for development**

Programme/Class: Certificate	Year: II	Semester: IV
Subject: Home Science		
Course Code: HS 403	Course Title: Communication for development	
<p>Course Outcomes: The student at the completion of the course will be able to: To acquaint students about communication process, recent advances in communication and diffusion and help students acquire necessary communication skills.</p>		
Credits: 4	Core	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Units	Topic	No. of Lectures
I	Communication <ul style="list-style-type: none"> ❖ Meaning, concept, importance, elements, types and models ❖ Communication Approaches ❖ Individual, Groups and Mass ❖ Factors affecting their selection and use ❖ Barriers of Communication 	15
II	Communication Skills <ul style="list-style-type: none"> ❖ Role of ICT in Communication ❖ Soft skills <ul style="list-style-type: none"> - Effective oral communication - Public speaking - Non verbal communication ❖ Writing skills 	10
III	Participative Communication <ul style="list-style-type: none"> ❖ Meaning, process and determinants ❖ Development Communication - Concept nature and significance 	08

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

M.A.II Semester -IV Home Science
Paper-IVA (Elective)
Fabric Construction(Theory)

Programme :M.A.	Year-II	Semester-IV
Subject: Home Science		
Course Code: HS404	Course Title: Fabric Construction	
<p>Course Outcomes.</p> <ul style="list-style-type: none"> • Students will develop understanding regarding various fibers, yarns, and fabrics along with their properties. • Students will gain knowledge of different dyes, dyeing methods & printing techniques. • Students will gain knowledge of fabric finishes, smart and technical Textiles. 		
Credits :4	Elective	
Max. Marks: 25+75	Min. Passing Marks:	
Total No. of Lectures-60		
Units	Topics	No. of Lectures-60
I	<ul style="list-style-type: none"> • Textile Terminologies: Fibre,yarn, weave,fabric,etc. • Classification of fibres, yarn,weaves. 	05
II	<ul style="list-style-type: none"> • Manufacturing process of major natural and man-made fibers, properties and their uses. 	15
III	<ul style="list-style-type: none"> • Different methods of fabric construction- Woven, knitted and non-woven fabrics, their properties and end uses. • Textile finishes -Classification, processing and purposes of finishes. 	15
IV	<ul style="list-style-type: none"> • Dyeing and printing- Classification of dyes and Methods of dyeing, Methods of Block Printing, Tie&Dye,Batik, Roller Printing,Discharge Heat Transfer Printing and Digitized Printing. • Technical and Smart Textiles 	25
<p>Suggested Readings:</p> <ul style="list-style-type: none"> ➤ Hollen&Saddler : Introduction to Textile, Alpha Books. ➤ Bernard P. Corbman, Textiles: Fiber to Fabric, MC. Graw Hill Education ➤ Seema Sekhri : Textbook of fabric science, (fundamentals to finishing),PHI Learning. 		

- B.C. Goswami, J.G.Martindale, F.L.,Scardino;Textile Yarns(Technology,Structure and Applications)Wiley India Pvt. Ltd.
- Dr. Asim Kumar Roy Choudhary;Principles of Textile Finishing, Woodhead publishing
- M.Clark;Hand book of Textile and Industrial Dyeing(principles, process and types of dyes),Woodhead Publishing Ltd.
- Paul N Hasluck; fabric dyeing,Double Bit Press
- Laurie Wisburn: Mastering the art of fabric printing anddesign, Chronicle books.
- TilakDias: Electronic Textiles Smart fabrics and wearable Technology, Woodhead Publishing Ltd.
- Gina Renee Dunhan : The Fitting Book – make sewing pattern alterations and achieve the perfect fit you desire, Gina Renee Designs.

M.A. (HOME SCIENCE) SEMESTER - IV PAPER – IV (Elective B) FOOD PROCESSING & TECHNOLOGY		
PROGRAMME/ CLASS : P.G. / M.A.-I	YEAR – II	SEMESTER- IV
SUBJECT – HOME SCIENCE		
COURSE CODE : HS405	COURSE TITLE : FOOD PROCESSING & TECHNOLOGY	PAPER – V (Elective – B)
COURSE OUTCOMES: This course will enable the students to – <ul style="list-style-type: none"> ❖ Evaluate foods for food safety and adulterates ❖ Analyze the sensory & objective characteristics of food ❖ Systematic knowledge of basic and applied aspects of food processing and technology, ❖ Provide the necessary knowledge basic principles and procedures in production of important food products. 		
CREDITS – 4	ELECTIVE	
MAX. MARKS : 100 25 + 75		
TOTAL NO. OF LECTURES – 60		
UNIT	TOPIC	No. OF LECTURES
I	<ul style="list-style-type: none"> ❖ Definition: food preservation and food processing. ❖ Food and its preservation (Home and community level including commercial operations): course of food spoilage, needs and benefits of food processing and technology for food preservation. ❖ Physical principles in food processing operations, thermal processing (Use of heat), types of heat treatments, heat resistance of micro-organisms. 	15
II	<ul style="list-style-type: none"> ❖ Refrigeration (Use of low temperature): Refrigeration and freezing – methods, principles and applications, freezing and its effects of food components and structure, shelf life of frozen 	23

	<p>foods.</p> <ul style="list-style-type: none"> ❖ Drying and dehydration: types of foods – traditional and new food products, principles and applications, home community and commercial methods of dehydration, effect on food quality. 	
III	<ul style="list-style-type: none"> ❖ Chemical Principles of food processing: Preservation / processing by sugar, salt curing, smoke, acids and chemicals. ❖ Fruit and vegetable processing methods and products. 	10
IV	<ul style="list-style-type: none"> ❖ Product Development and there, characteristics: Product processing and changes in product that affect texture, flavour. ❖ Colour, nutritive value and safety during handling storage and packaging 	10

SUGGESTED READINGS :

1. Food Preservation & Processing : Kalia M. & Sood S (2010)
2. Food Processing & Preservation : Sivasanhar B (2002)
3. Food Science (1996): Potter N.N
4. Gould, G.W. (1995) New Methods of Food Preservation, Blackie Academic and Professional, London.
5. Connor, J.M. And Schick W.A. (1997), Food Processing and Industrial Powerhouse in Transition, John Wiley and Sons, New York.
6. Stadelman, W.J. and Cotterill, D.J. (1986) Egg Science and Technology, AVI, Publishing Co., Inc. Westport
7. Arthey, D. and Ashurt, P.R. (1996), Food Processing, Blackie Academic and Professionals, London.
8. Phillips, R.D. and Finley J.W.(1989), Protein Quality and Effects of Processing, Marcel Dekker, Inc. New York
9. Inglett, G.C. Munet, L. (1980), Cereals for Food and Beverages, Academics Press, New York.
10. Jellen, P. (1985), Reston Publishing Co., Inc, Aprentice – Hall Co., Virginia.