

UNIVERSITY OF PUNE

First Year Syllabus For The

Three-Year Integrated Bachelor of Science (B.Sc.) In Home

Science Degree Course

To be introduced from Academic Year 2015-16

Faculty of Home Science

Proposed curriculum structure to be implemented from June 2015

Semester	No. of Papers (T)	No. of Practical (P)	Theory (60 marks)	Practical (40 marks)	Total (100)	Workload*		
I	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	35
II	5	5	300	200	500	$5Tx4^*=20$ $2Px3^*=15$	35	
III	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	35
IV	5	5	300	200	500	5Tx4*=20 5Px3*=15	35	33
V	5	5	300	200	500	$5Tx4^*=20$ $5Px3^*=15$	35	35
VI	5	5	300	200	500	$5Tx4^*=20$ $5Px3^*=15$	35	
Total	30	30	1800	1200	3000		210	105

Semester - I

Semester-I

]	Exam	sche	me					
Pa	Paper No.		The	ory							The	eory			
	Subject		rnal	Inte	rnal	Exte	rnal	Inte	rnal	Exte	rnal	Inte	rnal	Ex	kam
,	Bubject		Min. Mark	Max. Mark s	Min. Mark s	Max. Marks	Min. Mark s	Max. Mark s	Min. Mark s	Max. Mark s	Min. Mark s	Max. Mark s	Min. Mark s	At	Ву
1	Human Anatomy & Physiology	50	20	10	04	-	-	-	-	50	20	10	04		
2	Introduction to Textile & Clothing	50	20	10	04	-	-	-	-	50	20	10	04		
3	Prenatal stages to childhood (CD)	50	20	10	04	-	-	-	-	50	20	10	04	The end of Sem	The College
4	Introduction to extension education	50	20	10	04	-	-	-	-	50	20	10	04		
5	Family Resource Management (HM)	50	20	10	04	-	-	-	-	50	20	10	04		
Pr 6	Based on Paper No. 1	-	-	-	-	30	12	10	04	30	12	10	04		
Pr 7	Based on Paper No. 2	-	-	-	-	30	12	10	04	30	12	10	04		
Pr 8	Based on Paper No. 3	-	-	-	-	30	12	10	04	30	12	10	04	The end of Sem	The College
Pr 9	Based on Paper No. 4	-	-	-	-	30	12	10	04	30	12	10	04	Com	Conege
Pr 10	Based on Paper No. 5	-	-	-	-	30	12	10	04	30	12	10	04		
	Total	250		50		150		50		400		100			

F.Y. B. Sc. (Home Science) – Sem.- I Paper 1 : Human Anatomy & Physiology

Theory - 4lec./week Theory -60 marks
Practical - Practical -40 marks

Unit I	 Introduction to various systems of the body Animal Cell: structure, functions of each component (organelle) of the cell. Tissues: Structure and functions of various types of tissues. Bones: Various types, functions, structure of bone. Joints: Classification and movements of various joints. 	07
Unit II	 Structure and functions of salivary glands, stomach, small intestine pancreas, and liver. Mechanism of mastication and swallowing. Digestion and absorption of carbohydrates proteins & fats. Excretory Systems Organs of excretion, their structure and functions (Kidneys, uretors and Urinary Bladder) Mechanism of urine formations. Normal and abnormal constituents of Urine. 	04
	Skin • Structure and functions of skin. Regulation of body temperature.	
Unit III	 Cardiovascular system Blood – Composition and functions of blood, including functions of each component, coagulation of blood & its significance. Blood groups and Rh factor. Heart – Structure and functions of Human heart. Cardiac cycle. Blood Pressure – Systolic and diastolic Blood pressures, its physiological variations. 	06
	Respiratory System: Organs, their structure & functions including Tracers. Bronchi & Lungs.	04

	Mechanism of Respiration & its Regulations.	
	O ₂ and CO ₂ Transport	
Unit IV	Female Reproductive System:	08
	• Structure and functions of various, fallopian tubes and uterus.	
	Menstrual cycle, ovulation and menopause.	
	 Pregnancy, parturition and Lactation. 	
	Male Reproductive System:	02
	Spermatogenesis.	
	Nervous System:	04
	Structure of Neuron.	
	 Structure and function of cerebrum & cerebellum. 	
Unit V	Endocrine glands:	04
	Structure and function of pituitary gland.	
	Structure and function of thyroid gland.	

- 1. Determination of blood groups.
- 2. Estimation of a) Hemoglobin b) Bleeding c) clotting time.
- 3. Recording heart rate & blood pressure.
- 4. Physical & chemical examination of Urine.
- 5. Identification of slides.
- 6. Study and identification of various bones.

- 1. Guyton A.C., Hall, A. J. Text Book of Medical Physiology.
- 2. K. Sembulingam Essentials of Medical Physiology.
- 3. Chatterjee Text Book of Medical Physiology.
- 4. Chaterjee C. C. Human Physiology.
- 5. Gardeb W. and sears: Anatomy and physiology for Nurses.
- 6. Guyton: Functions of Human body.
- 7. Jacfob and francone: Elements of Anatomy and Physiology.
- 8. Joglakar V. H. "kjhj foKku
- 9. Sharpe L. & L. Schafer Histology.
- 10.Best and Taylerr: Human Body.
- 11.Rastogee Text Book of Cytology.

F.Y. B. Sc. (Home Science) – Sem.- I Paper 2 : Introduction to Textile & Clothing

Theory - 4lec./week Theory -60 marks
Practical - Practical -40 marks

Unit I	Introduction to textile science	10
	Terminology in textiles, History, textile fibers.	
	 Terminology in textness, fristory, textne fibers. Textile fibers & its classification. 	
	Properties & use of different textile fibers – cotton, sills reven polyester parallel polyemide and other	
	silk, rayon, polyester, acrylic, polyamide and other fibers.	
	• Types of yarn, yarn twist, yarn count, yarn crimp and strength.	
	 Yarn manufacturing process. 	
Unit II	Fabric Construction	8
	• Methods of fabric construction – Primitives and	
	modern methods felting, weaving, knitting, braiding	
Unit III	Fundamentals of clothing Construction	15
	General principles of clothing construction	
	Drafting & making paper patterns, taking body	
	measurements for different types of garments.	
	 Preparation of Fabrics for garment making layout of 	
	patterns cutting & Marketing	
Unit IV	Performance Related Legislative Act	15
	Beauro of Indian Standards	
	Flammable Fabric Act	
	Wool Label Act	
	Eco Labeling	
	Silk Mart	
	Handloom Mark (Functions & objectives to be cover)	
	 Care labeling act & types of care labeling 	

- 1. Introduction to Sewing equipments and tools, sewing machine & its Care.
- 2. Preparation of Samples of running stitch, Darning stitch, hemming stitch, invisible stitch, decorative stitch.
- 3. Body measurements, measurements from garments
- 4. Cutting & stitching of different garments Baby Garment (complete latté set, romper)
- 5. Collection of different samples of fabric (Preparation of album)

- 6. Majory L. Josheph 'Essentials of Textiles'
- 7. Lewis 'comparative clothing construction Techniques.'
- 8. Gohl EPG & Vilensky L.D. 'Textile Science' CBS publishers &
- 9. Distributor, Delhi.
- 10. Corbman B.P. 'Textile fiber to fabric Mc. Graw Hill Inc.
- 11. Toratora S.G., Understanding Textiles, Holman & Sons.
- 12. Wynne A. Textiles- The Motivate series, Macmillan
- 13. Bane A., Creative clothing Constructions, McGraw Hill Book company, new York.
- 14. Riders Digest, Complete Guide to sewing, Readers digest association, New York.
- 15. Singer, Sewing step by stitching, Decosse incorporation USA

F.Y. B. Sc. (Home Science) – Sem.- I Paper 3 : Child Development (Prenatal stages to childhood)

Theory - 4lec./week	Theory	-60 marks
Practical -	Practical	-40 marks

Objectives:

- 1. To become acquainted with the developmental stages from prenatal stage to childhood.
- 2. To develop awareness of important aspects of development during prenatal stage to childhood.
- 3. To understand the problems and hazards faced by an individual throughout prenatal stage to childhood.

Unit 1	Introduction	15
	 Meaning of life span development and need to 	
	study development through the life course.	
	 Life span development- a multidisciplinary 	
	approach.	
	 Different periods in life span development. 	
	 Components of development and inter- 	
	relationship between the aspects of	
	development.	
Unit 2	Prenatal Development	09
	 Introduction to prenatal development- stages: 	
	period and ovum, embryo, fetus.	
	 Case during pregnancy and factors affecting 	
	prenatal growth and development.	
	 Infancy: Definition, Physical growth and 	
	development in infancy, reflects emotional	
	states, physical growth and motor development,	
	brain.	
	 Developmental tasks of infancy, milestone, and 	
	highlights of development.	
Unit 3	Early Childhood Period (2-6 years)	15
	 Definition, Characteristics of Developmental 	
	Tasks of early childhood years.	
	 Physical and motor development during early 	
	childhood period.	
	 Language development during early childhood 	
	period.	

	Social and emotional development during E. C. period	
Unit 4	Middle Adulthood (6-12years)	09
	 Definition, Characteristics and Developmental 	
	Tasks of middle childhood.	
	 Role of school in middle childhood. 	
	Effects of success and failure.	
	 Peer group- Importance and functions. 	

- 1. View films/CD on delivery.
- 2. Prepare a case study report of a pregnant women from 3rd month onwards.
- 3. Project on child rearing practices in different communities. (ex. Rural-Urban)(2-3 students group can be assigned one project.)
- 4. Visit to Nursery school and submission of Report.
- 5. Bulletine Display on current topics related to syllabus.(Group of 4-5 students)

Topics: 1. Discipline

- 2.Parenting
- 3 .Family
- 4. Media and children.

- Craig. G. J. (1974): Child Development, printince Hall Inc. Englewood clifts, New Jersey.
- 2. Hurlock, E.B. (1970): Child Development, Tata Megraw Hill Publishes, Delhi.
- 3. Vaikasik Manasashastra: Borude. R. R., Kumathekar M., Desai B., Golvilakar S., Vidyarthy Gruhprakashan, Pune.
- 4. Manav Vikas: Kandalkar lina, Vidya Prakashan, Pune.
- 5. Balvikas, Dr. Varadpande N. Pimpalipure and k. Publishers, Nagpur.
- 6. Berk L. E. Development through the Lifespan Person Education, Low Price edition.
- 7. Populia, D.E. and olds, S.W.(1975) "A Childs World" Tata Macqraw Hill Publication, Newuork.

F.Y. B. Sc. (Home Science) – Sem.- I Paper 4: Introduction to extension education

Theory - 4lec./week Theory -60 marks
Practical - Practical -40 marks

Objectives:

- 1. To understand the concept of extension education.
- 2. To know the difference between extension education, formal and non formal education.
- 3. To develop the knowledge of Home Science extension education.

Unit 1	Extension Education	09
	 Concept need and definition of extension education 	
	History of extension education	
	 Scope of extension education 	
	Role of extension education in community	
	development.	
Unit 2	Philosophy And Principles Of Extension Education	09
	 Philosophy of extension education 	
	 Principles of extension education 	
	Qualities and role of extension worker	
Unit 3	Adult And Non Formal Education	15
	 Concept, meaning and need 	
	 Difference between formal and non formal 	
	education	
	 Difference between extension, formal and non- 	
	formal education	
Unit 4	Home Science Extension Education	15
	 Meaning and concept of home science extension 	
	education	
	 History and definition of home science extension 	
	education	
	 Scope of home science extension education 	
	Role of home science extension education in rural	
	and urban development	
	Areas of home science extension education	

1.	Preparation of questionnaire	(1*3)
2.	Conduct a survey on different current issues of community	(2*3)
3.	Analysis of information about conducting survey (Group discussion)	(1*3)
4.	Project work on -adult education, family planning, health hygine or any	current
	issues	(3*3)
5.	Visit to KVK and report writing	(2*3)
6.	To prepare a scrap on different areas of home science	(3*3)

- 1) Extension and communication for development, O. P. Dahama and Bhatnagar
- 2) A Text book on 'agricultural communication, process and methods by A. S. Sandhu
- 3) An introduction to extension education Dr. S. V. Supe
- 4) Mass communication Keval Kumar

F.Y. B. Sc. (Home Science) – Sem.- I

Paper 5 : Home Management (Family Resource Management)

Theory - 4lec./week Theory -60 marks
Practical - Practical -40 marks

Unit No. 1	Management Process	10
	Introduction	10
	Meaning and definition	
	Basic concept of Management	
	Purpose of Management	
	Management and Change	
	Obstacles in Management	
	Misconception about Management	
	Steps of Management Process	
	Motivating Factors	
	_	
	Goals: Meaning & Definition and classification	
	• Values: Meaning & Definition,	
	classification and characteristics	
	Standards: Meaning & Definition and	
	classification	
Unit No. 2	Decision Making Process	5
CIIIt 140. 2	Meaning and Definition	3
	Types	
	• Steps	
	 Factors affecting decision making 	
Unit No.3	Tactors affecting decision making	10
Omt 140.5	Family and Resource Management	10
	Family:	
	Meaning and Definition	
	Types and size of family	
	Characteristics	
	 Stages of Family Life Cycle: Beginning, 	
	Expanding and Contracting	
	Resources:	
	 Meaning and Definition 	
	Classification	
	 Characteristics 	

Unit No.4		8
	Money Management	
	 Meaning and Definition 	
	 Classification of income, income profile 	
	 Methods of handling money 	
	 Budget: meaning, types and steps 	
	 Account keeping: meaning, types and advantages & limitations. 	
	• Financial security: savings, insurance,	
	taxation and investments	
	 Factors affecting expenditure 	
Unit No.5	<u> </u>	5
	Time Management	
	 Meaning 	
	 Classification of activities 	
	Time cost	
	• Tools	
	 Management process applied to time 	
Unit No.6	Energy Management	10
	 Meaning 	
	 Classification of household tasks 	
	 Types of efforts 	
	Energy management process	
	Factors affecting energy management	
	 Fatigue: meaning, types, causes and remedies 	
	Work simplification – importance, definition,	
	techniques and classes of change	

- 1. Apply the management process to organize a picnic / wedding anniversary. (Interactive Sessions) (1X3)
- 2. Write a report on decision making process of selecting Home Science as a field of education at under graduate level. (Interactive Sessions) (1X3)
- 3. Identify and categorize the available resources in your family. (1X3)
- 4. Prepare a monthly budget for a small unit family. (1X3)
- 5. Maintain the monthly expenditure in various types of accounting system.(2X3)
- 6. Make a time plan of a working college day and exam day. (1X3)

- 7. Observe the task carried out by the lab attendant through the use of informal paper and pencil techniques. (3X3)
- 8. Visit any well known management institute in Maharashtra. (2X3)

Bracket indicates (No. of practical X hours)

- 1. Deacon, R. E. and Firebough, F. M. (1981): "Family Resource Management: Principles and Application". Allyn Bacon.
- 2. Gilberth, M. L. "Management in the Home".
- 3. Gross, Crandell and Knoll, (1980): "Management for Modern Families". Printice Hall Inc.
- 4. Kiran Kaur (2007): "Home Management" Srishti Book Distributors, New Delhi.
- 5. Nickill & Dorsey, (1991): "Management in Family Living", 4th Edition, Wiley and Eastern New Delhi.
- 6. Verghese, M. A., Ogale, N. N. and Srinivasan, K., "Home Management for Std. XI", Elements of Home Science, Premlata Mallick.

Semester - II

Semester II

							I	Exam	schei	me					
Pa	Paper No.		Theory					Theory							
Subject				rnal External		Internal		External		Internal		Exam			
		Max. Marks	Min. Mark s	Max. Mark s	Min. Mark s	Max. Marks	Min. Mark s	Max. Mark s	Min. Mark s	Max. Mark s	Min. Mark s	Max. Mark s	Min. Mark s	At	Ву
11	Food Science	50	20	10	04	-	-	-	-	50	20	10	04		
12	Home Textiles & Care	50	20	10	04	-	-	-	-	50	20	10	04		
13	Human Development (Adolescence to old age)	50	20	10	04	-	-	-	-	50	20	10	04	The end of Sem	The College
14	Communicat ion and extension teaching method	50	20	10	04	-	-	-	-	50	20	10	04		
15	Art and Design (HM)	50	20	10	04	-	-	-	-	50	20	10	04		
Pr 16	Based on Paper No. 1	-	-	-	-	30	12	10	04	30	12	10	04		
Prac	Based on Paper No. 2	-	-	-	-	30	12	10	04	30	12	10	04		
Pr 18	Based on Paper No. 3	-	-	-	-	30	12	10	04	30	12	10	04	The end of Sem	The College
Pr 19	Based on Paper No. 4	-	-	-	-	30	12	10	04	30	12	10	04		
Pr 20	Based on Paper No. 5	-	-	-	-	30	12	10	04	30	12	10	04		
	Total	250		50		150		50		400		100			

F.Y. B. Sc. (Home Science) – Sem.- II Paper 11: Food Science

Theory - 4lec./week Theory -60 marks
Practical - Practical -40 marks

Unit: I	Concept of food science	8
	Definition	
	 Scope & application. 	
Unit II	Food Groups : Classification, structure Composition	
	Denaturation, & other chemical change.	
	Cereals: processing	5
	Legumes & Pulses: Toxic contents. and ant nutritional factors	5
	Milk & milk products	5
	 Vegetables & Fruits- phytochemicals & nutraceuticals 	5
	• Meat, Poultry, Fish& Eggs.	5
	• Fats & Oils : PUFA, Omega 3 and 6 rich oils and importance	10
	• Condiments & spices	5

Practical:

- 1. Weighing and measuring of food items flours, cereals and cereal Products, pulses and dal, sugar, oils and other liquid foods.
- 2. Preparation of using cereals and pulses.
- 3. Preparation of recipes using vegetables.
- 4. Preparation of recipes using fruits.
- 5. Preparation of recipes using fish, egg and meat.

- 6. Preparation of beverages.
- 7. Preparation of milk based products.
- 8. Effect of solutes on boiling point and freezing point of water. 1 x 3 hrs.
- Effect of hard and soft water on characteristics of cooked
 Vegetables, pulses and cereals.
- 10. Preparation of Sugar and Jaggery syrup, 2 x 3 hrs.
- 11. Preparation of Leavened products. 2 x 3 hrs.
- 12. Study of induction and microwave cookers
- 13. Preparation of fermented foods

- 1. Charley H. (1982): Food Science (2nd Edition), John Wiley and Sons, New York.
- 2. Potter N. and Hotchkiss, J. H. (1999): Food Science, fifth edition, CBS publishers and distributors, New Delhi.
- 3. Belitz, H. D. and Grosch, W. (1989): Food chemistry (2nd edition), Springer, New York.
- 4. Abers, R. J. (Ed) 1976): Foam, Academic Press, New York.
- 5. Cherry, J. P. (Ed.) 1991): Protein Functionally in foods, American Chemical Society, Washington, D.C.
- 6. Pomeranz, Y. (Ed.) (1991): Functional Properties of Food components, (2nd edition), Academic Press, New York.
- 7. Duckworth, R. B. (Ed.) (1978): Water Relation to Foods, Academic Press, London.
- 8. Parihar, P., Agrawal R., Jain D.K. and Mandhyam, B.L. (1977): Status Report on Dehydration of Eggs. PHT / CAE / Publishers.
- 9. Marshall, K. R. and Horper, W. J. (1988): Whey protein concentrates, IDE Bulletin No. 233.
- 10. Tindall, H. D. (1983): Vegetables in the Tropics, MacMillan, Press, London.
- 11. Julians, B. O. (Ed.) (198): Rice Chemistry and Technology, (2nd Edition), MacMillan Publishing Co., New York.
- 12. Peckham, G. and Freeland Graves, G. H. (1979): Foundation of Food Preparation.

- 13. Backer, P. (1965); Emulsions: Theory and practice, Rainhold, New York.
- 14. Belitz, H. D. and Grosch, W. (1999): Food Chemistry, Springer, Verlag Berlin Deideberg.
- 15. Damodaran, S. and Parot, A. (editions) (1997) Food Protein and their applications, Marcel Dekker Inc.
- 16. Davis, M. B. Austin J. and Partridge, D. A. (1971) Vitamin: Its Chemistry and Biochemistry. The Royal society of Chemistry T. C., House, Science Park, Cambridge CB4 4WF.
- 17. Diehl. J. F. (1995) Safety of Irradiated Foods Marcel Dekker Inc. New York.
- 18. Friberg. S. E. and Lasson, K. (editions) (1977) Food Emulsions, Marcel Dekker, New York.
- 19. Goldberg 1 (ed) (1994) Functional Foods Champan and Mall Inc., India.
- 20. O' Brien, L. O. Nabors and Gelardi, R. C. (1991) Alternative Sweeteners, Marcel Dekker, New York.
- 21. Risch, S. J. and Hotchkiss, J. H. (ed.) (1991) Food Packaging Interactions II ACS Symposium Series 473, American Chemical Society, Washington D. C.
- 22. Marwaha, S. S. and Arora, J. K. (2000) Food Processing Biotechnological Applications Asiatech Publishers, Inc, New Delhi.
- 23. Mahindra, S. N. (2000) Food Safety A Techno- legal Analysis, Tata Mc Goraw Hills Publishing Co. Ltd.
- 24. Mahindru, S. N. (2000) Food Additives Characteristics Detection and Estimation Tata Mc Graw Hill Publishing Co. Ltd.
- 25. Borwankar, R. P. and Shoemaker, C.E. (1992) Rhedogy of Foods. Elsevier Science Publisher, Ltd. England.
- 26. Charlambour, G. (1990) Flavour of flavour 8, Elsevier Science Publishers Ltd., P. O. Box 211, 1000 AE Amsterdam, The Netherlands.
- 27. Salunke, D. K. and Kadam S. S. (2001): Handbook vegetable science and Technology, Marcel Dekker, Inc. 270, Madisen Avenue, New York, Ny, 100016
- 28. FAO Food and Nutrition Paper: Manual of Food Quality Control Parts 14/L (1979) to 14/8 (1986), FAO the United Nations Rome.

F.Y. B. Sc. (Home Science) – Sem.- II Paper 12 : Home Textiles & Care

Theory - 4lec./week Theory -60 marks
Practical - Practical -40 marks

Objectives:

- 1. To develop the understanding about home textiles
- 2. To understand various sizes & types available in home textile
- 3. To acquaint the knowledge about selection & care of home textile

Unit I	Table Linen	15
	 Different types of fabric use 	
	Different sizes of table linen	
	Use & care of table linen	
	Bath Linen	
	 Different types of fabric use 	
	Different sizes of bath linen	
	Use & care of bath linen	
	Apries	
Unit II	Kitchen towels & napkins	15
	 Different types of kitchen towels 	
	 Sizes of kitchen towels & napkins 	
	 Use & care of kitchen towels & napkins 	
	Floor covering	
	Origin & classification of rugs	
	 Different types of rugs & carpets available in the market 	
	Use & care of floor coverings	
Unit III	Bed Linen	8
	Articles used in bed linen	
	Different sizes of bed linen	
	Selection & car of bed linen	
Unit IV	Curtains & Draperies	10
	 Use & care of curtains & draperies 	
	 Difference between curtains & draperies 	
	Selection of curtains & draperies	

- 1. Rug making from old fabrics
- 2. Making of any home textile article by using machine embroidery.

- 1. Winget, Textiles & their selection
- 2. Ana Hong, Home Furnishing, Wiley Estern, New Delhi
- 3. Heather Luke, Lets Home Decorator, Soft Furnishing, Charles Letts & co.
- 4. Reders Digest, the complete book of sewing.

F.Y. B. Sc. (Home Science) – Sem.- II Paper 13 : Human Development (Adolescence to old age)

Theory - 4lec./week Theory -60 marks
Practical - Practical -40 marks

Objectives:

- 1. To become acquainted with the developmental stages from adolescence to old age.
- 2. To develop awareness of important aspects of development during adolescence to old age.
- 3. To understand the problems and hazards faced by an individual throughout adolescence to old age.

Unit 1	Puberty and Adolscence	12
	 Definition, characteristics and Development Tasks Physical Development, Puberty, Growth Spurt, Primary and Secondary sex characteristics, early and late mature. Emotional Development during Adolescence, Heightened emotionally, Meaning, Causes, expression, characteristics of emotional maturity. 	
Unit 2	Issues And Problems during Adolscence	12
	 Choosing Career- Stages factors affecting, selection Friendship, types of peer group and its importance Hazards during Adolscence: Drug Addiction, Alcoholism, Accidents, Suicide, STDs, ATDs Teen age pregnancies. 	
Unit 3	Adulthood: Issues and concerns	12
	 Young Adulthood (Age 21-40) Definition, Meaning, Characteristics and Developmental Tasks. Responsibilities and Adjustments: Parenthood, financial. Middle Adulthood(Age41-60) Definition, Meaning, Characteristics and Developmental Tasks. Physical changes- during middle adulthood, 	

	Menopause and health issues.	
Unit 4	Old Age and Aging Issues	12
	 Definition, Meaning, Characteristics and Developmental Tasks. Physiological changes, health problems, cognitive and memory changes. Retirement: Effect of retirement on self, family, society and financial problems faced. Preparing on self for Death. 	

- 1. Sketching of self History on growing up stage.
- 2. Skit presentation in group on any topic from syllabus.
- 3. Case on any one topic: Menopause, Interview/ case study on Newly married couple, parenting, etc.
- 4. Visit on -1. Old age home or
 - 2. Remand home
 - 3.Junile home
- 5. Conducting recreational activity for grand parents/ aging people.

F.Y. B. Sc. (Home Science) – Sem.- II Paper 14 : Communication And Extension Teaching Method

Theory - 4lec./week Theory -60 marks
Practical - Practical -40 marks

Objectives:

- 1. To know the concept and meaning of communication.
- 2. To develop the skills regarding extension teaching methods.
- 3. To create awareness regarding various audio visual aids.

Unit 1	Communication	09
	 Concept, meaning and definition of 	
	communication	
	 Elements of communication 	
	 Functions of communication 	
	 Importance of communication 	
	Barriers to communication	
Unit II	Communication Process And Models	09
	 Communication process – two way process 	
	 Communication channels 	
	 Different models of communication 	
Unit III	Communication Media And Audio Visuals Aids	15
	 Traditionals medias- puppets, streetplay, folk 	
	songs, folk theartres	
	 Modern medias – radio, T.V, news paper, internet 	
	 Audio visuals aids – concept, meaning, definition 	
	and need.	
	 Classification of audio visual aids 	
	Selection and use of audio visual aids	
Unit IV	Extension Teaching Methods	15
	 Meaning, nature and classification 	
	Individual contact method	
	Group contact method	
	Mass contact method	
	 Selection and use of extension teaching methods 	

- 1. To Study of existing communication tools for message dismination, cost and impact. (3*3)
- 2. Preparation of suitable communication aids for individual contact (2*3)
- 3. Preparation of suitable communication aids for group contact (2*3)
- 4. Preparation of suitable communication aids for mass contact (2*3)
- 5. Enlist different traditional medias (1*3)
- 6. Enlist modern media (1*3)
- 7. To prepare different audio visuals aids (Flash cards, leaflet or pamphlet, charts or posters etc.) (1*3)

- 1) Extension and communication for development, O. P. Dahama and Bhatnagar
- 2) A Text book on 'agricultural communication, process and methods by A. S. Sandhu
- 3) An introduction to extension education Dr. S. V. Supe
- 4) Mass communication keval kumar
- 5) Vistar Shikshan, Triveni Farkade.

F.Y. B. Sc. (Home Science) – Sem.- II Paper 15 : Home Management (Art and Design)

Theory - 4lec./week Theory -60 marks
Practical - Practical -40 marks

Unit I	Introduction to Art and Design	10
	Art: Meaning and definition	
	 Design: Meaning, definition & types 	
	 Elements & principles of Art and Design 	
Unit II	Colour:	10
	 Importance 	
	 Dimensions of colour – Hue value & Intensity 	
	Classification of colours	
	 Colour schemes and its application 	
Unit III	Flower Arrangement	8
	Importance of Flower Arrangement	
	Materials required for Flower Arrangement	
	Tips required for preserving flowers and flower	
	arrangements	
	Different types of Flower Arrangement for different	
	occasions	
Unit IV	Family Housing	10
	Needs and functions of housing: protective, economic, result also sized, advective and assign.	
	psychological, educative and social	
	• Factors affecting housing needs	
	Factors affecting selection & purchase of site Harring Salaman	
	Housing Schemes Superal leading for different activities.	
Unit V	 Space planning for different activities Residential Furniture and Furnishing 	10
	Furniture:	
	Selection of furniture	
	Furniture Arrangement	
	Care and maintenance	
	Furnishing, linen and accessories:	
	• Selection	
	Care and maintenance	

- 1) Preparation of colour wheel (1X3)
- 2) Value and Intensity of colour (1X3)
- 3) Colour schemes on different motifs: stylized, geometric, abstract and naturalistic (2X3)
- 4) Flower arrangements for different occasions using different types and styles. (2X3)
- 5) Make a scrap book illustrating the elements and principles of design (1X3)
- 6) Conduct a market survey and collect the information on floor coverings, furnishings and linen. (2X3)
- 7) Do a site survey and write a report on the visit of a residential project. (2X3)
- 8) Study & draw the architectural symbols & furniture templates (1X3)

Bracket indicates (No. Of Practical X hours)

- 1. A text book of applied arts Dr. Sunita Barkar.
- 2. Farkade, T. (2012): "Gruh Ani Antar Sajavat". Pimplapure and Co. Publishers, Nagpur.
- 3. Faulkner Richart. "Inside Today's Home"
- 4. Foundation of Art & Design, Lakhani Book Depot. Bombay.
- 5. Goldstein & Goldstein, "Art in Everyday Life".
- 6. Introduction to Home furnishing, Macmillan
- 7. Kandalkar, Leena, (2012): "Kautumbik Saunsadhanachi Sankalpana". Akar Graphics, Nagpur
- 8. Kandalkar, Leena. (2012): "Gruh Arthshastrachi Multatva". Vidya Prakashan, Nagpur.
- 9. Limaye, K. (2010): "Gruh vyavasthapan ani Gruh Kala". Vidya Prakashan, 2Nagpur.
- 10. vk/kqfud x`gdyk MkW- {kek fye;s
- 11. vk/kqfud x`gO;oLFkkiu & olq egktu] fdrkc egy] ukxiwi