



University of Pune

**UNIVERSITY OF PUNE**

**Second 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**

# **Semester - III**

## SEMESTER III

Paper No. Subject		Exam scheme													
		Theory								Theory				Exam	
		External		Internal		External		Internal		External		Internal			
		Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	At	By
21	Health, Hygiene & Sanitation Microbiology	50	20	10	04	-	-	-	-	50	20	10	04	The end of Sem	The College
22	Textile science	50	20	10	04	-	-	-	-	50	20	10	04		
23	Family dynamics	50	20	10	04	-	-	-	-	50	20	10	04		
24	Home science extension and extension programme planning	50	20	10	04	-	-	-	-	50	20	10	04		
25	English	50	20	10	04	-	-	-	-	50	20	10	04		
Pr 26	Based on Paper No. 1	-	-	-	-	30	12	10	04	30	12	10	04	The end of Sem	The College
Pr 27	Based on Paper No. 2	-	-	-	-	30	12	10	04	30	12	10	04		
Pr 28	Based on Paper No. 3	-	-	-	-	30	12	10	04	30	12	10	04		
Pr 29	Based on Paper No. 4	-	-	-	-	30	12	10	04	30	12	10	04		
Pr 30	Based on Paper No. 5	-	-	-	-	30	12	10	04	30	12	10	04		
<b>Total</b>		<b>250</b>		<b>50</b>		<b>150</b>		<b>50</b>		<b>400</b>		<b>100</b>			

**S.Y. B. Sc. (Home Science) – Sem III**

**Paper 21 : Health, Hygiene & Sanitation Microbiology**

Theory - 4lec./week  
Practical -

Theory -60 marks  
Practical -40 marks

<b>Unit No. 1</b>	<b>Types of contaminants/Soils</b> <ul style="list-style-type: none"><li>• Types of Soils : Their properties</li></ul>	8
<b>Unit No. 2</b>	<b>Cleaning</b> <ul style="list-style-type: none"><li>• Cleaning procedures, types of cleaning agents and their properties.</li></ul>	8
<b>Unit No. 3</b>	<b>Sanitation</b> <ul style="list-style-type: none"><li>• Physical and chemical sanitizers their properties</li><li>• Types of sanitizing agents and their properties.</li><li>• HACCP, GAP, GMP, GHP</li></ul>	8
<b>Unit No. 4</b>	<b>Hygiene</b> <ul style="list-style-type: none"><li>• Definition, meaning, maintance</li><li>• Importance of personal Hygiene.</li><li>• National &amp; International Health Agencies like WHO, UNICEF.</li><li>• National Health Programme – NTCP, NMEP</li><li>• Types of Soil (Food residues on equipment surfaces) and its properties.</li><li>• Waste utilization</li></ul>	8

<b>Unit No. 5</b>	<b>Air &amp; Waterborne Diseases</b> <ul style="list-style-type: none"> <li>• Airborne diseases – Measles, Chicken pox, Whooping coughs.</li> <li>• Waterborne diseases – Dysentery, Cholera, Typhoid.</li> </ul> <p style="text-align: center;">Food borne diseases: Infection and Intoxications</p>	<b>8</b>
<b>Unit No. 6</b>	<b>Infection, Prevention &amp; Control</b> <ul style="list-style-type: none"> <li>• Concept of Disease</li> <li>• Diseases transmitted by Mosquitoes, Housefly, Lice; their life cycle &amp; control methods.</li> <li>• Study of Parasites – Parasites: Helminthes, Protozoa, Nematodes, Entamoeba, Hookworm, Tapeworm, Threadworm, with references to structure, life cycle, mode of infection &amp; harmful effects.</li> </ul>	<b>8</b>

**Practicals :**

1. Introduction to laboratory equipments – Autoclave, incubator, Oven, refrigerator, U.V. Chamber, L.A.F. Cabinet.
2. Staining methods of Bacteria – Monochrome, Negative, Gram staining.
3. Study of permanent slides of parasites.
4. Effect of soap or other disinfectant on normal flora of skin.
5. Visit to PHC, District Tuberculosis Center. Public health laboratory
6. Determination of CFU
7. Isolation and identification of E. coli
8. Testing the antimicrobial activity of sanitizers.
9. Water supply systems and water purification, chlorination
10. Microbial quality of eating utensils- continue
11. Methods of pest control in food industries rodents / cockroaches

## References

1. Peleczar, J.M. Chan, E.C.S. and Kreig, N. R. (1993) Microbiology, Ed. 5<sup>th</sup> Tata MacGraw Hill.
2. Atlas R. M. (1988) Microbiology, fundamentals and application. Micmillon N. Y.
3. Schlegel, General Microbiology . Fd. 7<sup>th</sup> Ed. Univ. Cambridge.
4. Harold J. Benson (1985) Microbiological Applications a laboratory manual in general Microbiology W.C. Brown publishers.
5. Frobisher M., Fundamentals of Microbiology W. sayenders co.
6. N. Kannan, “ Laboratory Manual in General Microbiology.” Panima publishing corporation, New Delhi.
7. Text book of Medical Parasitology, C.K. Jayram Panikar 4<sup>th</sup> Ed.<sup>n</sup> JAYPEE Brothers medical publishers (P) Lted. New Delhi.
8. Ananthnarayan R. & C.E. Jayram Panikar, 1996, textbook of Microbiology 5<sup>th</sup> ed. Orient Longman.
9. Park & Park, Prementive & Social Medicine.
10. Chakraborty, P. 2003, A Textbook of Microbiology, 2<sup>nd</sup> ed. New entral Book Agency, India.
11. American College of Physicians complete medical Home Gide – Editor David R. Goldman, D.K. Publishing Inc. New York. 1999, 1<sup>st</sup> edn.
12. Gregory P.H., et. al. Airborne microbes, Cambridge Uni. Press
13. Manuals, Prospects, Bulletins & journals from – WHO, UNICEF & Maharashtra & Central Govt. Health Ministry.
14. Guide to improving Food Hygiene, Ed Gaston & Tiffney
15. Practical Food Microbiology, Harry H.Weiser,J.mountney and W.W.Gord Technology (2<sup>nd</sup> edition)
16. Food Poisoning and Food Hygene (3<sup>rd</sup> Edition), Betty C.Hobbs
17. Principles of Food Sanitation, Marriott. Norman G.
18. Hygiene in food manufacturing and Handling, Barry Graham- Rack and Raymond Bmsted

**S.Y. B. Sc. (Home Science) – Sem III**  
**Paper 22 : Textile Science**

Theory - 4lec./week  
Practical -

Theory -60 marks  
Practical -40 marks

<b>Unit I</b>	<b>Natural fibers</b> <b>( Cultivation, Properties &amp; uses)</b> <ul style="list-style-type: none"><li>• Cotton</li><li>• Jute</li><li>• Linen</li><li>• Wool</li><li>• Silk</li></ul>	15
<b>Unit II</b>	<b>Manmade fibers</b> <b>( Manufacturing processes, Properties &amp; uses)</b> <ul style="list-style-type: none"><li>• Viscous rayon</li><li>• Polyamide</li><li>• Acrylic</li><li>• Polyester</li></ul>	15
<b>Unit III</b>	<b>Blends &amp; Union Fabrics</b> <ul style="list-style-type: none"><li>• Advantages &amp; disadvantages</li><li>• Applications of mixed, union &amp; blended</li><li>Advantages &amp; disadvantages of mixed, union &amp; blended</li></ul>	10
<b>Unit IV</b>	<b>Finishing Processes</b> Preprocessing ( scouring, bleaching)	8

**Practical:**

1. Identification of blends- Single fiber, viscous nylon, viscous rayon, polyester, acrylic.
2. Blend Analysis- Tericot, wool, teriwool, cotton silk, viscous polyester.
3. Identification of test- Burning, microscopic, chemical
4. Identification of union blends.

## **References**

1. Corbman B. P. Textile fibre to fabric Mc Goraw Hill Inc.
2. Gohl EPG and Vilensky L. D. "Textile Science" CBS Publishers and Distributors, Delhi.
3. Majory L. Josheph 'Essentials of Textile.
4. Chattopadhyay and Kamala Devi (1875) – Handicrafts of India, New Delhi, Indian Council of Cultural Relations.
5. Stout, Introduction to textiles, John Willansons, New York.



**S.Y. B. Sc. (Home Science) – Sem.- III**  
**Paper 23 : Family dynamics**

Theory - 4lec./week  
 Practical -

Theory -60 marks  
 Practical -40 marks

**Objectives:**

1. To sensitize the students towards marriage and family.
2. To understand the traditional and changing norms of the institution of the family with reference to its social environment.
3. To get familiar with the concept of marriage and planned parenthood and the areas of adjustment within the family.
4. To become aware of problems in family and way of coping.

<b>Unit 1</b>	<p><b>Introduction</b></p> <ul style="list-style-type: none"> <li>• Significance of the term ‘Family Dynamics’</li> <li>• Introduction of ‘Marriage and Family’ as an institution and its importance.</li> <li>• Meaning of traditional marriage and its functions</li> <li>• Goals of modern marriage</li> </ul>	10
<b>Unit 2</b>	<p><b>Marriage</b></p> <ul style="list-style-type: none"> <li>• Pre-marital Involvement, Marriage counselling; Pre-marital and post marital counselling</li> <li>• Mate selection: Guidelines for mate selection, Modes of mate selection, factors in self choice and arranged marriage</li> <li>• Engagement: Meaning, importance and functions of engagement, Broken engagement: causes, ways of coping.</li> <li>• Wedding and Honeymoon            Wedding: Traditional and Court Marriage            Honeymoon: Values of honeymoon, Significance of honeymoon</li> </ul>	18
<b>Unit 3</b>	<p><b>Family</b></p> <ul style="list-style-type: none"> <li>• Definition and types, functions</li> <li>• Family life cycle and developmental tasks, adjustments within family areas and patterns.</li> <li>• Alternate family patterns- causes, characteristics and implications.</li> </ul>	10

	<ul style="list-style-type: none"> <li>• Family crisis: Types of crisis and ways of coping.</li> </ul>	
<b>Unit 4</b>	<b>Parenthood</b> <ul style="list-style-type: none"> <li>• Concept and significance of planned parenthood</li> <li>• Pleasures and hazards of parenthood</li> <li>• Family planning methods: advantages and disadvantages</li> </ul>	10

### **Practical:**

1. Survey on any one of the following topics
  1. Mate selection criteria
  2. Changing roles of family members
  3. Pre-marital pre-preparation by youth
2. Critical qualitative analysis of Film-Serial / Advertisement on “Marriage Ceremony”
3. Workshop on Family Planning methods by Gynochologist & report writing.
4. Workshop on premarital counseling & report writing.
5. Skit presentation on Family crisis.

### **References**

1. Henslin J. M. (ed)(1989): Marriage and family in changing society. The free press U. S. A.
2. Durall E. M. (1977): Marriage and family development Lippincott co.philadelphia.
3. Dyer E. D. (1983): Courtship, Marriage and family, American style, The Dorsey press-Illians.
4. Blood, Robert and Wolfe(1960): Husband and wife dynamics and married life: Free press, Newyork.
5. *Vivah ani kautumbic sambadh(2009): Pharakade Triveni, Gongo Sulabha, Vidya Prakashan, Nagpur.*
6. Smart S. and Smart M. S. (1980): Families- developing relationship, Memillan Publications, Newyork.

**S.Y. B. Sc. (Home Science) – Sem.- III**  
**Paper 24 : Home Science Extension And Extension**  
**Programme Planning**

Theory - 4lec./week  
 Practical -

Theory -60 marks  
 Practical -40 marks

**Objectives:**

1. To know the meaning and importance of programme planning
2. To understand the role of communication and technology in the process of communication
3. To create an awareness regarding the development through various agencies

<b>Unit 1</b>	<b>Programme Planning</b> <ul style="list-style-type: none"> <li>• Concept, meaning, definitions</li> <li>• Principles of programme planning</li> <li>• Steps in programme planning</li> <li>• Abilities needed by planner</li> </ul>	15
<b>Unit Ii</b>	<b>History Of Technology Development</b> <ul style="list-style-type: none"> <li>• History of communication technology- from smoke signals to satellites</li> <li>• From news paper to ICT</li> <li>• Transmission and preservation/ storage</li> </ul>	12
<b>Unit Iii</b>	<b>Use Of Technology</b> <ul style="list-style-type: none"> <li>• For individuals – telephone, fax, internet etc</li> <li>• Group- video, communication aids – OHP, LCD projectors etc.</li> <li>• Mass – radio, television, films, prints medias etc</li> </ul>	12
<b>Unit Iv</b>	<b>Role Of Various Agencies In Development</b> <ul style="list-style-type: none"> <li>• Role of home science extension students in rural and urban development</li> <li>• Role of govt. in rural and urban development</li> <li>• Role of NGO in rural and urban development</li> </ul>	09

**Practical:**

1. Preparation of slide show (PPT) on any current issues(3\*3)
2. Presentation of slideshow in classroom (3\*3)
3. To study and handling of OHP and LCD projector
4. To write an article on any current issues for print media like news paper, magazine etc.  
(2\*3)
5. Visit to radio centre (AIR) and report writing of the visit (2\*3)

**References**

- 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

**S.Y. B. Sc. (Home Science) – Sem.- III**  
**Paper 25 : Functional English**

Theory - 4lec./week  
Practical -

Theory -60 marks  
Practical -40 marks

	<b>Text: Leaf</b>	
<b>Unit : I</b>	<b>Poetry</b> <ul style="list-style-type: none"><li>• <b>Leave the charting &amp; singing &amp; telling of beds</b> -Rabindranath Tagore</li><li>• <b>Upon Westminster Bridge</b> -William Wordsworth.</li></ul>	18
<b>Unit : II</b>	<b>Essays</b> <ul style="list-style-type: none"><li>• <b>Hobbies &amp; Interests</b> - C.T.Philip</li><li>• <b>Tea or Coffee.</b> -( <b>From Radiant Health</b>)</li></ul>	15
<b>Unit : III</b>	<b>Speeches</b> <ul style="list-style-type: none"><li>• <b>Human Environment</b> - Smt. Indira Gandhi</li><li>• <b>Departing Speech</b></li></ul>	15

**Practical:**

1. Dialogues (Situational)
2. Newspaper Activity
3. Group discussion
4. Advertisement

# **Semester - IV**

## SEMESTER IV

Paper No. Subject		Exam scheme													
		Theory								Theory				Exam	
		External		Internal		External		Internal		External		Internal			
		Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	Max. Marks	Min. Marks	At	By
31	Human Nutrition	50	20	10	04	-	-	-	-	50	20	10	04	The end of Sem	The College
32	Clothing for family	50	20	10	04	-	-	-	-	50	20	10	04		
33	Introduction to early childhood education	50	20	10	04	-	-	-	-	50	20	10	04		
34	Consumer Education (HM)	50	20	10	04	-	-	-	-	50	20	10	04		
35	English	50	20	10	04	-	-	-	-	50	20	10	04		
Pr 36	Based on Paper No. 1	-	-	-	-	30	12	10	04	30	12	10	04	The end of Sem	The College
Pr 37	Based on Paper No. 2	-	-	-	-	30	12	10	04	30	12	10	04		
Pr 38	Based on Paper No. 3	-	-	-	-	30	12	10	04	30	12	10	04		
Pr 39	Based on Paper No. 4	-	-	-	-	30	12	10	04	30	12	10	04		
Pr 40	Based on Paper No. 5	-	-	-	-	30	12	10	04	30	12	10	04		
<b>Total</b>		<b>250</b>		<b>50</b>		<b>150</b>		<b>50</b>		<b>400</b>		<b>100</b>			

**S.Y. B. Sc. (Home Science) – Sem.- IV**

**Paper 31 : Human Nutrition.**

Theory - 4lec./week  
Practical -

Theory -60 marks  
Practical -40 marks

<b>Unit No. 1</b>	<b>Introduction to principles of nutrition –</b> <ul style="list-style-type: none"> <li>• Food               <ol style="list-style-type: none"> <li>1. Definition</li> <li>2. Functions of food.</li> </ol> </li> <li>• Nutrition               <ol style="list-style-type: none"> <li>1. Definition</li> <li>2. History</li> <li>3. Factors affecting Nutrition</li> </ol> </li> <li>• Food Science               <ol style="list-style-type: none"> <li>1. Definition</li> <li>2. Scope &amp; application.</li> </ol> </li> </ul>	<b>8</b>
<b>Unit No. 2</b>	<b>Different Food Groups.</b> <ul style="list-style-type: none"> <li>• Nutrients obtained form <b>present in</b> different food groups.</li> <li>• Food Pyramid : Types of food pyramid</li> <li>• Balanced diet : Children, Adults, Athletes, Old age.</li> </ul>	<b>8</b>
<b>Unit No. 3</b>	<b>Balanced diet, BDA &amp; RDA</b>  <b>RDA</b> <ul style="list-style-type: none"> <li>• Recommended Dietary Allowance for different age groups.</li> <li>• Application of RDA.</li> </ul>	<b>8</b>
<b>Unit No. 4</b>	<b>Proximate principles</b> <ul style="list-style-type: none"> <li>• Different nutrients (Micro &amp; macronutrients)</li> <li>• Carbohydrates – Classification, functions, Sources, requirements, digestion &amp; absorption, deficiencies.</li> <li>• Proteins - Classification, functions Sources , requirements, digestion &amp; absorption, deficiencies.</li> <li>• Fats- Classification, functions, Sources , requirements, digestion &amp; absorption, deficiencies.</li> </ul>	<b>12</b>



<b>Unit No. 5</b>	<ul style="list-style-type: none"> <li>• Vitamins- Classification, Sources, functions, deficiencies.</li> <li>• Minerals- Classification , Sources, functions, deficiencies.</li> <li>• Water and electrolyte Sources, functions, deficiencies.</li> <li>• Role of functional food in human nutrition.</li> </ul>	
<b>Unit No. 6</b>	<b>Nutritional requirements</b> <ul style="list-style-type: none"> <li>• Infancy, Childhood.</li> <li>• Adolescence.</li> <li>• Pregnancy &amp; lactation</li> <li>Old age</li> </ul>	<b>12</b>

**Practical:**

1. Planning of nutrient rich dishes – protein, carbohydrate & fat  
calcium, iron, vitamin A, Thiamine, riboflavin and ascorbic acid
2. Cost calculation
3. Planning of low cost nutritious recipes
4. Study of common deficiency diseases
5. Preparation of functional food.

## References

1. Baianu I. C. (Editor) : Physical (Chemistry) of food process, Vol –1 fundamental Aspects, AVI Books, New York.
2. Fennema, O. R. (Editor) : Food chemistry, 2<sup>nd</sup> Edn. Marcel Dekker inc. New York. (1985)
3. Ronsivali, L. J. & Vierira E. R. (1992) : Elementary food science, 3<sup>rd</sup> edn. , Chapman & Hall New York.
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5. Wong, D.W.S. (1989): Mechanism and Theory in Food Chemisry,AVI Books, Van Nostrand Reinhold, New York.
6. Swaminathan M. (1970) Food Science and experimental foods.
7. Grisold P. M. The experimental study of foods, Boston Houghlon Mifflin Co., Hel-1862.
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9. Swaminathan M. (1974) Essentials of foods and nutrition Vol.I., Ganesh and Company, Madras – 17.
10. Davidson S., More R., Brock I.F. Trusmell A. S. (1975).
11. Human Nutrition and dietetics, Sixth Ed. The English language book society and churehill livingstone.
12. Whole and Goodharth (1968) Modern nutrition in health and disease, 4<sup>th</sup> Ed. Tea and Febyer, New York.
13. Robinson and Lawler (1977) Normal and therapeutic Nutrition Macmillan. Publishing company – INC.
14. Kinder F. (1968) Meal Management Third education Macmillan
15. Company, New York.
16. Srilkashmi B. (2005) : Dietetics, 5th Edn., New Age
17. International (p) Limited.
18. Gopalon C, Rama Sastri B. V. & Balasubramanian S. C. (1971)
19. Nutritive value of Indian foods, 1<sup>st</sup> edn., National Institut of Nutrition, ICMR, Hyderabad.
20. Singh Mitali (2007) : Food preparation, Shikshan books
21. distributors.
22. Swaminathan M. (1986) : Handbook of food & Nutrition 5<sup>th</sup> edn. The Bangalore Press

**S.Y. B. Sc. (Home Science) – Sem.- IV**  
**Paper 32 : Clothing for family**

Theory - 4lec./week  
Practical -

Theory -60 marks  
Practical -40 marks

**Objective:**

1. To develop an ability to choose the appropriate clothing for different age group
2. To enable students to understand psychological effect of clothing

<b>Unit I</b>	<b>Origin &amp; Importance of clothing</b>	12
<b>Unit II</b>	<b>Factors Influencing Selection of clothing</b>	12
<b>Unit III</b>	<b>Selection of clothing according to different age groups</b>	12
<b>Unit IV</b>	<b>Wardrobe planning &amp; clothing Management</b>	12

**Practical:**

1. Group projects – Preparing a album for dresses used by various age group.

**References**

1. Bane A., Creative clothing Constructions, McGraw Hill Book company, new York.
2. Carson B., How you look & Dress, McGraw Hill book company
3. Savitri Panndit, Manual of Children Clothing, Orient Longmans Ltd.
4. Tate & Glisen, Clothing for family, John Wily & Co., USA

**S.Y. B. Sc. (Home Science) – Sem.- IV**  
**Paper 33 : Introduction to early childhood education**

Theory - 4lec./week  
 Practical -

Theory -60 marks  
 Practical -40 marks

**Objectives:**

1. To develop and understand the need and importance of early childhood education.
2. To develop and understand curricular planning.
3. To learn various skills required for conducting developmentally appropriate program for children.
4. To gain insight into the organization and management of a preschool center.

<b>Unit 1</b>	<b>Introduction</b> <ul style="list-style-type: none"> <li>• Meaning , Importance and Objectives of ECE</li> <li>• Organization of Preschool Centers: different types of preschool, physical setup, equipments- importance , selection &amp; care</li> </ul>	12
<b>Unit 2</b>	<b>Contribution of Child Educators and Programme planning</b> <ul style="list-style-type: none"> <li>• Maria Montessari, Froebel Rousseau, Tarabai Modak, Ravindranath Tagore, Mahatma Gandhi</li> <li>• Learning through play Play meaning, values, types, stages, play – way method</li> </ul>	12
<b>Unit 3</b>	<b>Components of ECE programme</b> <ul style="list-style-type: none"> <li>• Child directed and Teacher directed activities need and values.</li> <li>• Long term and short term planning</li> <li>• Language activities-Types and methods 1. Songs 2.stories 3.Puzzeles 4.Internel Talk 5.Object Talk 6.Selection of songs and stories for preschoolers.</li> <li>• Science activities, Importance and Types, Role of Teacher</li> <li>• Social Studies-Importance and activities</li> <li>• Mathematics and 3 R.S. Types of activities</li> </ul>	12
<b>Unit 4</b>	<b>Working with parents and guiding children</b> <ul style="list-style-type: none"> <li>• Importance of Parental Involvement and ways of parental involvement.</li> <li>• Guiding children in Daily situation: Feeling of Insecurity and Hostility.</li> </ul>	12

## **Practical:**

1. Observation of Nursery school and writing a report.
2. Creative a craft activities-
  - Different types of drawing.
  - Different types of painting.
  - Different types of printing.
  - Finger painting
  - Modeling
  - Threading and Lacing
  - Tearing, cutting and collage making
3. Language Activities
  - Collection of pictures
  - Collection of objects
  - Preparing a picture book
  - Story telling techniques. Preparing and telling a story
4. Science  
Listing of science experiences
5. Mathematics  
Preparing kit on pre mathematical concepts
6. Music and movement
  - Collection of songs ( i.e. Marathi, Hindi, English)
  - Singing songs in right tune and pitch.
  - Making musical instrument
7. Readiness Activities
  - Reading readiness activities (Matching sets visual discrimination cards, Work pages etc.)
  - Writing Readiness activities (Pencil Fun Games, Simple to Complex activities).
8. Games: Indoor and Outdoor.

## References

1. Skipper Witherspoon(1987)Good Schools for young children, Macmillan Publishing co, Newyork.
2. Read K. (1967) The Nursery school Oxford IBH Publishing co, Dales.
3. Kulkarni S. (1998) Parent Education, Perspective and Approaches, Rawat Publication, Jaipur.
4. Brewer: Early Childhood Education.
5. Desai Anupama, Vinita Apate- Learning through environment.
6. Spodek B. (1973) Early Childhood Education. Prentice Hall, New Jersey.

**S.Y. B. Sc. (Home Science) – Sem.- IV**  
**Paper 34 : Home Management -Consumer Education**

Theory - 4lec./week  
 Practical -

Theory -60 marks  
 Practical -40 marks

<b>Unit 1</b>	<p><b>Consumer and Need of consumer education</b></p> <ul style="list-style-type: none"> <li>• Introduction, meaning and definition</li> <li>• Consumerism and it's need</li> <li>• Objectives of consumer education</li> <li>• Agencies helping in educating consumers: Family, school, businessman, advertisement, government and non government organizations</li> </ul>	8
<b>Unit 2</b>	<p><b>Consumer Problems</b></p> <ul style="list-style-type: none"> <li>• Adulteration</li> <li>• Faulty weights and measures</li> <li>• Misleading advertisements</li> <li>• Spiraling prices</li> <li>• Sale gimmicks</li> <li>• Unfair warranty and guaranty</li> <li>• Misbranding</li> <li>• Mislabeling</li> <li>• Massive Profiteering</li> <li>• Illegal trading</li> <li>• Black marketing</li> <li>• Ethical Practices</li> </ul>	10
<b>Unit 3</b>	<p><b>Sources of information</b></p> <p>Branding, labeling, grading and standardization, advertising, consumer advocates, NGOs, Manufacturer's catalogues</p>	10
<b>Unit 4</b>	<ul style="list-style-type: none"> <li>• <b>Consumer decision making</b></li> <li>• Decision making process</li> <li>• Buying decisions</li> <li>• Post purchase evaluation</li> <li>• Good buy man ship</li> <li>• Rights and responsibilities</li> </ul>	10

<b>Unit 5</b>	<p><b>Consumer protection</b></p> <ul style="list-style-type: none"> <li>• Protection acts:</li> <li>• Food Safety and Standards Act of 2006</li> </ul> <p>Prevention of Food Adulteration, Weights and measures, Packaged Commodity,</p> <ul style="list-style-type: none"> <li>• Essential Commodities Act</li> <li>• Consumer Protection Act</li> </ul> <p><b>Consumer Agencies</b></p> <ul style="list-style-type: none"> <li>• Consumer Guidance Society of India</li> <li>• Consumer Education &amp; Research Centre, Ahmadabad</li> </ul>	10
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**Practical:**

1. Identify 5 consumer problems related to food adulteration/faulty weights and measures/sale gimmicks. (1X3)
2. Interview consumers who have faced problems in market. (2X3)
3. Detection of food adulterant. (1X3)
4. Illustrate the types of labels. (1X3)
5. Differentiate between branding and misbranding and collect 5 examples. (1X3)
6. Observe decision making process by your family for the purchase of any household equipment. (2X3)
7. Observe and critically analyze 5 advertisements from any media and write down the report. (2X3)
8. File a mock complaint against the trader of any one product. (1X3)
9. Celebration of World Consumer Day on 15<sup>th</sup> March (organizing slogan Competition, Guest Lecture, Poster Competition and other events ) (1X3)

**Bracket indicates (No. Of Practical X hours)**



## References

- Gulshan, S. S., (1996): “Consumer Protection and Satisfaction”. Willey Eastern Ltd. New Delhi.
- Kotler, P. (1985): “Principles of Marketing” Printice Hall of India Pvt. Ltd. New Delhi.
- Nair, S., (1999): “Consumer Behavior Text and Cases”. Himalayan Publishing House, New Delhi.
- Ramaswamy, B. S. and S. Namakumari, (1997): “Marketing Management”. Macmillan India Ltd. New Delhi.
- Sherlekar, S. A., Reddy, P.N. and H. R. Appannaiah, (1995): “Essentials of Marketing Management”. Himalayan Publishing House, Mumbai.
- Sheth, J. N. (1973): “Model of Industrial Behavior”. Journal of Marketing Vol. 37 (4).
- Sontakki, C. N. and Deshpande, R. G. (1984): “Mrketing Salsmanship and Advertizing”. Kalyani Publishers, New Delhi.
- Sundara, I. S. (1985): “Consumer Protection in India”. B. R. Publishing Corporation, Delhi.

**S.Y. B. Sc. (Home Science) – Sem.- IV**  
**Paper 35 : Functional English**

Theory - 4lec./week  
Practical -

Theory -60 marks  
Practical -40 marks

<b>Unit : I</b>	<b>Poetry</b> <ul style="list-style-type: none"><li>• <b>The Indian Woman</b> -Shiv K. Kumar</li><li>• <b>Talking in their Sleep</b> -Edith Thomas.</li></ul>	15
<b>Unit : II</b>	<b>Short Stories</b> <ul style="list-style-type: none"><li>• <b>The Golden Touch</b> -Nathaniel Hawthorn</li><li>• <b>The Last Leaf</b> -O' Henry</li></ul>	15
<b>Unit : III</b>	<b>One – Act Plays</b> <ul style="list-style-type: none"><li>• <b>The Dear Departed</b> -Stanley Houghter</li><li>• <b>Swan song</b> - Anton Chekhov</li></ul>	18

**Practical:**

1. Presentation
2. Making Menu-card
3. Comparing
4. Interviews