

સરદાર પટેલ યુનિવર્સિટી  
હોમસાયન્સ વિદ્યાશાખાની સભા  
કાર્યનોંધ

બિડાણ. ૨૫  
એ.કે.આઈ. ૨૬ તા. ૧૧/૧/૧૯

હોમસાયન્સ વિદ્યાશાખાની સભા તારીખ: ૨૬/૪/૨૦૧૭ ને બુધવારના રોજ બપોરે ૧.૦૦ કલાકે યુનિવર્સિટી કાર્યાલયના સેનેટ ખંડમાં મળી હતી.

સભામાં નીચેના સભ્યશ્રીઓ હાજર રહ્યા હતા:

૧	ડૉ. ભાવના વાય. ચૌહાણ	૬	ડૉ. દેવિકા જી. ઠક્કર
૨	ડૉ. વી. એચ. પટેલ	૭	મીસ. અપૂર્વા શાહ
૩	ડૉ નમ્રતા કોલા	૮	ડૉ. અમીતા પટેલ
૪	ડૉ. રેમા સુભાષ	૯	શ્રીમતી બિજલ કે. અમીન
૫	મીસ. અલ્પના શાહ		

સભાની શરૂઆતમાં અધ્યક્ષશ્રીએ સર્વે સભ્યશ્રીઓને આવકાર્યા હતા. ત્યારબાદ સભાનું કામકાજ શરૂ કરવામાં આવ્યું.

૧. તારીખ: ૧૧/૪/૨૦૧૬ના રોજ મળેલ હોમસાયન્સ વિદ્યાશાખાની સભાની કાર્યનોંધને બહાલી આપવા બાબત.

તારીખ: ૧૧/૪/૨૦૧૬ ના રોજ મળેલ હોમસાયન્સ વિદ્યાશાખાની સભાની કાર્યનોંધને બહાલી આપવી.

૨. તારીખ: ૧૫/૧૧/૨૦૧૬ના રોજ મળેલ હોમસાયન્સની અભ્યાસ સમિતિની સભાએ કરેલ નીચેની ભલામણ ઉપર વિચારણા કરવા બાબત.

ભલામણ:

આથી ઠરાવવામાં આવે છે કે હોમસાયન્સની અભ્યાસ સમિતિના કાર્યક્ષેત્રમાં આવતા રનાતક કક્ષાના અભ્યાસક્રમોમાં યુ.જી.સી. મોડલ કરીકયુલમ અનુસાર જરૂરી સુધારા-વધારા સહિતના સેમેસ્ટર-૧ અને રના તંમામ વિષયોના અભ્યાસક્રમો બિડાણમાં દર્શાવ્યા મુજબ મંજૂર કરવા તેમજ તેનો અમલ શૈક્ષણિક વર્ષ ૨૦૧૭-૧૮ થી ક્રમશઃ કરવો.

આથી ઠરાવવામાં આવે છે કે તારીખ: ૧૫/૧૧/૨૦૧૬ના રોજ મળેલ હોમસાયન્સ અભ્યાસ સમિતિની સભાએ કરેલ ઉપરોક્ત ભલામણ મંજૂર કરવી.

અધ્યક્ષશ્રીની મંજૂરીથી નીચેની બાબત હાથ ધરવામાં આવી:

૩. ગુજરાત યુનિવર્સિટીમાંથી ડી-એફીલીએશન થઈને આ યુનિવર્સિટીમાં જોડાયેલી નવી ખંભાત અને કપડવંજ ખાતેની હોમસાયન્સ કોલેજોમાં ચાલતા બી.એસસી.(હોમસાયન્સ)જનરલના ત્રીજા અને ચોથા સેમેસ્ટરના અભ્યાસક્રમો પરિશિષ્ટમાં દર્શાવ્યા મુજબ મંજૂર કરવા તેમજ તેનો અમલ શૈક્ષણિક વર્ષ ૨૦૧૭-૧૮ થી કરવો.

નંબર: ડી/એ/ ૧૮૫૬

વલ્લભ વિદ્યાનગર

તારીખ: ૧૩/૬/૨૦૧૭

પ્રતિ:

હોમસાયન્સ વિદ્યાશાખાના સર્વે સભ્યશ્રીઓ તરફ.

પરીક્ષા વિભાગ તરફ જાણ સારું.

નિયામકશ્રી, કોમ્પ્યુટર સેન્ટર યુનિવર્સિટી વેબસાઇટ (નોટીસ અને સરકયુલર) પર મૂકવા વિનંતી.

મદદનીશ કુલસચિવ

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**SARDAR PATEL UNIVERSITY, VALLABH VIDYANAGAR**

**B.Sc. Home Science**

**(Under Choice Based Credit Scheme)**

**Semester - FIRST**

Sr. No.	Course Type	Course Code (10 Digit)	Name of Course	Theory (T)	Credit	Contact hrs/ week	Exam	Marks			
				Practical (P)			Duration in hrs	Internal	External	Total	
1	Foundation Courses	UH01FENG21	English	T	2	2	2	15	35	50	
2		UH01FENV22	Environmental Studies	T	2	2	2	15	35	50	
3	Core Courses	UH01CCHE23	Chemistry	T	2	2	2	15	35	50	
4		UH01CCHE24	Chemistry	P	1	2	3	15	35	50	
5		UH01CBIO25	Biology	T	2	2	2	15	35	50	
6		UH01CBIO26	Biology	P	1	2	3	15	35	50	
7		UH01CFRM27	Introduction to Resource Management	T	2	2	2	15	35	50	
8		UH01CFRM28	Introduction to Resource Management	P	1	2	3	15	35	50	
9		UH01CTCL29	Introduction to Clothing	T	2	2	2	15	35	50	
10		UH01CTCL30	Introduction to Clothing	P	1	2	3	15	35	50	
11		UH01CHUD31	Introduction to Human Development	T	2	2	2	15	35	50	
12		UH01CHUD32	Introduction to Human Development	P	1	2	3	15	35	50	
13		UH01CFDN33	Introduction to Foods & Nutrition	T	2	2	2	15	35	50	
14		UH01CFDN34	Introduction to Foods & Nutrition	P	1	2	3	15	35	50	
<b>Elective Course ( Any one 15 &amp; 16, 17,18)</b>											
15	Elective	UH01EHSC01	Computer Basic	T	1	1	Internal	25		25	
16		UH01EHSC02	Computer Basic	P	1	1	3	20	30	50	
17		UH01EHSC03	National Service scheme	T	2	2	2	20	30	50	
18		UH01EHSC04	Grooming & Personality	T	2	2	2	20	30	50	
				<b>Total</b>		<b>24</b>	<b>30</b>		<b>390</b>	<b>510</b>	<b>900</b>

**SARDAR PATEL UNIVERSITY, VALLABH VIDYANAGAR**

**B.Sc. Home Science**

**(Under Choice Based Credit Scheme)**

**Semester - SECOND**

Sr. No.	Course Type	Course Code (10 Digit)	Name of Course	Theory (T)	Credit	Contact hrs/ week	Exam	Marks		
				Practical (P)			Duration in hrs	Internal	External	Total
1	<b>Foundation Courses</b>	UH02FENG21	English	T	2	2	2	15	35	50
2		UH02FESW22	Effective Speaking & Writing	T	2	2	2	15	35	50
3	<b>Core Courses</b>	UH02CCHE23	Chemistry	T	2	2	2	15	35	50
4		UH02CCHE24	Chemistry	P	1	2	3	15	35	50
5		UH02CBIO25	Biology	T	2	2	2	15	35	50
6		UH02CBIO26	Biology	P	1	2	3	15	35	50
7		UH02CHUD27	Family Dynamics	T	1	1	Internal	25	---	25
8		UH02CTCL28	Introduction to Textiles	T	2	2	2	15	35	50
9		UH02CTCL29	Introduction to Textiles	P	1	2	3	15	35	50
10		UH02CFRM30	Basics of Design Application	T	1	1	Internal	25	---	25
11		UH02CFRM31	Basics of Design Application	P	2	4	3	30	70	100
12		UH02CFDN32	Nutrition for Family	T	2	2	2	15	35	50
13		UH02CFDN33	Nutrition for Family	P	1	2	3	15	35	50
14		UH02CHUD34	Personal Empowerment	T	2	2	2	15	35	50
<b>Elective Course ( Any one 15 &amp; 16, 17,18)</b>										
15	<b>Elective Courses</b>	UH02EHSC01	Computer Application	T	1	1	Internal	25		25
16		UH02EHSC02	Computer Application	P	1	2	2	15	35	50
17		UH02EHSC03	National Service scheme	T	2	2	2	15	35	50
18		UH02EHSC04	Yoga & Health	T	2	2	2	15	35	50
				<b>Total</b>	<b>24</b>	<b>31</b>		<b>285</b>	<b>490</b>	<b>775</b>

**First Year B.Sc. (Home) I-Semester**  
**ENGLISH**  
**Course Code: UH01FENG21**

**Theory**  
**Credit : 02 Pd/Wk: 02 Marks: 50**

**Objectives:**

1. To develop basic English reading and writing skills.
2. To familiarize learners with English structure.

**Note:-** Three Short stories selected from prescribed collection

Name of the Text: Ten Short Stories Edited by Jatin Mohanty. Universities Press  
(Story No. 2. Romance of a Busy Broker, 4. The Earth, 5. A case of Identity)

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit :I</b>	Questions based on short stories to be asked	30%
<b>Unit :II</b>	a) Short notes based on short story (any one) b) B. Paragraph Writing	20%
<b>Unit :III</b>	Grammar and Vocabulary a) Tenses b) Prepositions c) Antonyms and Synonyms	30%
<b>Unit :IV</b>	Reading Comprehension	20%

**Learning Outcome:**

1. At the end of this course learner will be able:
2. To develop basic English reading and writing skills.
3. To read and write grammatically correct English

**References :**

1. Essentials of Business Communication – Rajendra Pal and JS Korlahalli (Sultan Chand & Sons)
2. Modern Commercial Communication – BS Shah Publication, Ahmedabad
3. Cambridge International Dictionary of Phrasal Verbs – Cambridge University Press
4. Developing Communication Skills – Krishna Mohan & Meera Benerji (Macmillan)
5. Business Communication – US Rai & SM Rai (Himalaya Publishing House, Mumbai)



<b>Unit-IV</b>	<b>Environmental Pollution</b>	25%
	a) Definition	
	b) Air Pollution	
	c) Water Pollution	
	d) Soil Pollution	
	e) Noise Pollution	
 <b>Unit-V</b>	 <b>Human Population, Social issues and the Environment</b>	 20%
	a) From unsustainable to sustainable development	
	b) Water conservation, rain water harvesting, watershed management.	
	c) Human population and the environment.	
 <b>Unit-VI</b>	 <b>Disaster management</b>	 10%
	a) Floods	
	b) Earthquakes	
	c) Cyclones and landslides.	

**Outcome :**

The student should be able to understand the difference between sustainable and unsustainable development and predict problems that future generation has to face if use of non-renewable resources is not restricted and clearly understand their role in preventing pollution and conserving natural resources.

**References:**

1. Bhatt, Patel and Gohil, "Paryavaran, Environmental Studies" New Popular Prakashan, Surat (2008)
2. Tiwari, Khulbe and Tiwari", Environmental Studies" I.K. International Publishing House Pvt. Ltd., New Delhi (2007).
3. Kaur H. "Environmental Studies" PragatiPrakashan, Meerut (2005).
4. BharuchaErach "A Textbook of Environmental Studies" University Grant Commission, University Press Pvt. Ltd., Hyderabad (2005).
5. Sharma P.D. "Ecology and Environmental" Rastogi Publications, New Delhi (2003)



- f) Molality
- g) Percentage W/W, W/V, V/V
- h) Mole Concept
- i) Diffusion and Osmosis

### **Colloids**

- a) Types of Colloids
- b) Difference of True, Colloidal and Suspension solution
- c) Properties of Colloids
- d) Gel and Emulsion
- e) Application of Colloids

### **Unit -III Acid, base, pH**

20%

- a) Acid Definition
- b) General Properties of acid
- c) Types of acid
- d) Preparation, Properties and uses of useful acids
- e) ( HCl, H<sub>2</sub>SO<sub>4</sub>, HNO<sub>3</sub>)
- f) Base-Definition
- g) General Properties of base
- h) Types of base
- i) Preparation, Properties and uses of useful base
- j) ( NaOH, Na<sub>2</sub>CO<sub>3</sub>, NaHCO<sub>3</sub> )
- k) pH- Definition ,
- l) pH Scale, Explanation
- m) Usefulness of pH
- n) Indicator
- o) Buffer Solution

### **Chemical Formula, Properties and uses of following**

#### **Compounds**

- a) Chlorine
- b) Ammonia
- c) Carbon dioxide
- d) Potassium permanganate
- e) Hydrogen peroxide
- f) Boric acid
- g) Bleaching powder
- h) Potash alum



**Unit -IV      Electro chemistry      20%**

- a) Redox reaction
- b) Definition
- c) Electrochemical cell
- d) Electrode potential
- e) Dry cell
- f) Lead Storage cell
- g) Corrosion

**Rate of Chemical reaction**

- a) Definition and explanation
- b) Rate of Chemical reaction and factors affecting it
- c) Nature of reactant, Concentration of reactant, Temperature, Catalyst

**Unit -V      Metals      20%**

- a) Classification of metals
- b) Difference between Metal and non metal
- c) General properties of metal
- d) Properties, uses and alloys of Copper, Aluminum, Iron
- e) Precious metals: Silver ,Gold and platinum
- f) Properties, uses and care of them

**Fire Extinguisher**

- a) Type of fire
- b) Methods for extinguishing fire
- c) Chemical fire extinguishers
- d) Dry powder
- e) Carbon dioxide
- f) Foam types.

**OUT COMES:**

1. Students completing this course will be able to give answer about uses of inorganic chemistry in various branches of home science.
2. Students will be able to make a chemical formula, chemical reactions. student also gain knowledge about solution preparation, acid and base and pH and various house hold chemicals ,metals and their uses.

**REFERENCES:**

- |                           |  |
|---------------------------|--|
| (1) Fundamental chemistry | (P. L .Soni )                              |
| (2) Applied Chemistry     | (Thankama Jacob)                           |
| (3) Inorganic Chemistry   | (Gehani, Parekh, Bhagvat )                 |
| (4) Inorganic Chemistry   | (B.D. Madam, B.S. Bisht)                   |
| (5) Chemistry-Std.XI      | (Gujarat State boards of School text book) |
| (6) Chemistry-Std.XII     | (Gujarat State boards of School text book) |



**First Year B.Sc. (Home) I-Semester  
CHEMISTRY  
Course Code: UH01CCHE24**

**Credit : 01**

**Practical  
Pd/Wk: 02**

**Marks: 50**

**Practicals :**

- (1) Qualitative analysis of water Soluble inorganic Compounds containing one Positive radical and one negative radical
- (2) Acid base titration :

Strong acid	Strong base
Strong acid	Weak base
Strong base	Weak acid







2. Brief account of Virus, Bacteria and yeast, Commercial importance of Microbes.

**OUTCOME:**

The students would get familiar with the basics of biology, they would gain knowledge regarding the plant and animal kingdom as well as the importance of genetics in human life.

**REFERENCES:**

1. Dutta A.C.,(1980) ‘ A class book of Botany’ John Brown, oxford university press. Faraday House, Calcutta- 13.
2. Apsangikar D.K. and Rane K.T.(1975): ‘Introduction to Botany’: Popular Publication Surat.
3. Sharma V.K. (1990) ‘Biology class XI’Publishers 23,Daryaganj New Delhi-110002.
4. Sankaram M.S.(1990) ‘Biology for Class XII’Tata McGraw-Hill Publishing Company Limited 4/12 Asaf Ali Road New Delhi.
5. Gujarat State Board of school Text books (1994) ‘Biology Standard 12’: old assembly Building Sector 17,Gandhinagar.
6. Gujarat State Board of school Text books (1996) ‘Biology Standard 12’: old assembly Building Sector 17,Gandhinagar.
7. Maheshwari P.Manoharlal (1996) ‘Biology Part 1-7’ NCERT New Delhi.







**Unit III : Decision Making :** 10%

- a) Definition and its importance
- b) Steps involved in decision making
- c) Types of decision
  - Individual Decision
  - Group Decision

**Unit IV : Management Process** 20%

- a) Definition and its importance in daily life
- b) Steps involved in management process
  - Planning : Definition, importance of planning and steps in successful planning, types of plans, characteristics of planning.
  - Controlling: Definition and important steps involved in controlling phase: energizing, checking and adjusting.
  - Evaluation : Feedback : Definition and its importance, type of evaluation.

**Unit V : Time Management and Energy Management** 35%

1. Time Management

- a) Meaning and need of time management
- b) Tools of time management
- c) Management applied to time
  - Planning
  - Controlling
  - Evaluating

2. Energy Management

- a) Meaning and need of energy Management
- b) Fatigue: Definition, types, methods to avoid fatigue
- c) Management applied to energy
  - Planning
  - Controlling : Principles of body mechanics
  - Evaluating
- d) Work simplification : Definition, Techniques of work simplification, Classes of change
  - Class A : Change in product
  - Class B : Change in household environment
  - Class C : Change in hand and body motion



**OUTCOMES:**

By the end of this course, students will be able to:

1. recognize the available resources and make the maximum use of resources to achieve the goals..
2. learn the basic process of management.
3. Critically analyze and apply the managerial skills in any situation.
4. manage the time and energy effectively and be more productive.

**REFERENCES :**

1. Ogle N. Srinivasan K. Varghese M.A.(1996) “Home Management” New age International House, New Delhi.
2. The Educational Planning Group Delhi (1993), “Home Management” Arya Publishing House, New Delhi.
3. Nickell P. And Dorsey J.M.,(2002) “Management in Family Living”, CBS Publications and Distributors Pvt. Ltd. New Delhi.
4. Shukul M. Gandotra V. ,(2006) “Home Management and Family Finance”, Dominant Publishers and Distributors, New Delhi.
5. ગંડોત્રા વી., મજમુદાર જે. (2007) , “ ગૃહવ્યવસ્થાપન, અનડા બુક ડીપો, અમદાવાદ.
6. ઠક્કર એમ. પુજારા જે. , (2001) , “ગૃહવ્યવસ્થાપન નો પરિચય” , પ્રવિણ પુસ્તક ભંડાર, રાજકોટ.

**First Year B.Sc. (Home) I-Semester**  
**INTRODUCTION TO FAMILY RESOURCE MANAGEMENT**  
**Course code: UH01CFRM28**

<b>Credit :01</b>	<b>Practical</b> <b>Pd/Wk: 02</b>	<b>Marks: 50</b>
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**Practicals:**

1. a) Diagrammatic presentation of resources under different categories with examples.  
b) Identify and list various community resources within your area.
2. Application of management process in day to day life activities.
3. Enlist and categorize various human values.
4. List five short term, intermediate and long term goals. Mention the resources required to achieve those goals.
5. a) Record all the decisions made in last three days and classify.  
b) Describe the steps in decision making process to make the final choice for the given situation.
6. Develop a time plan schedule for the coming week and learn how much time spending on various activities.
7. Apply work simplification techniques in day to day life.
8. Finding minimum and maximum vertical and horizontal reach of individuals.



**First Year B.Sc. (Home) I-Semester  
INTRODUCTION TO CLOTHING  
Course Code: UH01CTCL29**

**Theory**  
**Credit : 02 Pd/Wk: 02 Marks: 50**

**Objectives :**

1. To impart knowledge on the elements & principles of dress design.
2. To gain knowledge of the readymade garment industry.
3. To develop basic skills in clothing construction

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit- I</b>	<b>Importance of Clothing</b> a) Brief overview of how clothing originated. b) Importance of Clothing ( why it originated)	20%
<b>Unit- II</b>	<b>Elements of dress design &amp; it's effect</b> a) Line, Color, Silhouette, Texture	20%
<b>Unit- III</b>	<b>Principles of dress design &amp; it's effect</b> a) Harmony, Balance, Proportion, Rhythm, and Emphasis.	20%
<b>Unit- IV</b>	<b>Introduction to garment construction</b> a) Designing, cutting, sewing, finishing b) Readymade garment manufacturers their brands	20%
<b>Unit- V</b>	<b>Fashion Industry</b> a. Fashion designers- Indian and world. b. Medium of fashion information- T.V., Fashion blogs, Fashion shows, Newspaper	20%

**REFERENCES:**

1. Fashion Technology M. Narang; Asia Pacific Business Press Inc. Delhi
2. Elements of Fashion & Apparel Design; Sumathi G.I. New Age International Ltd, 2002
3. The new Textiles; 1993 C.Colchester; thames & Hudson Ltd;
4. Fashion Design & product development ; 1992 H.Carr & J. Pomeroy, Blackwell Scientific Publication ;
5. Fashion Tourism(2010) Kumar A., Sonali Publication, New Delhi. India.
6. Fashion Technology, today & tomorrow; N. Pundir, Mittal Publication New Delhi;2007
7. Basic process & Clothing Construction. Doongaji S.C.& Deshpande(1964),New Raj Book, New Delhi.
8. Sewing for Apparel Industry, Shaeffer C (2000); Prentice Hall New Jersey.
9. Textile technology to GCSE(1999), Dawn J., Oxford university press

**First Year B.Sc. (Home) I-Semester  
INTRODUCTION TO CLOTHING  
Course Code: UH01CTCL30**

**Credit : 01**

**Practical  
Pd/Wk: 02**

**Marks: 50**

**Practical:**

1. Sewing machine- Care, threading & use of machine.
  - a) Sewing machine attachments
  
2. Make samples of the following
  - a) Plain seam, flat-filled seam, French seam
  - b) Edge machine- $1/4^{\text{th}}$ ,  $1/3^{\text{rd}}$ ,  $1/6^{\text{th}}$
  - c) over-lock seam
  - d) rolled/ bidding seam
  - e) bias binding, bias facing
  - f) shaped facing
  - g) darts
  - h) side pleat
  - i) Full opening placket
  - j) skirt placket
  - k) continuous placket
  - l) hemming
  - m) tacking
  - n) running
  
3. Collection of textile components, its application & use
  - a) Buttons, stud fastenings, eyelets, ribbon, lace, braid, buckle, chain, safety pins, rivets, poggles, zip
  
4. Readymade garment analysis- seam type, neckline finishes, fullness etc.
  
5. Related glossary

**First Year B.Sc. (Home) I-Semester  
INTRODUCTION TO HUMAN DEVELOPMENT  
Course code: UH01CHUD31**

<b>Credit : 02</b>	<b>Theory Pd/Wk: 02</b>	<b>Marks: 50</b>
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**Objectives:**

1. Introducing the students to the field of human development
2. To sensitize the students to social and cultural context in human development

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit -I</b>	<b>An Overview of the field</b> <ol style="list-style-type: none"> <li>a) What is human development</li> <li>b) Need &amp; importance of studying human development</li> <li>c) Historical view</li> <li>d) Scope of the field of human development</li> </ol>	10%
<b>Unit -II</b>	<b>Orientation to Growth and Development</b> <ol style="list-style-type: none"> <li>a) Meaning and definition of growth and development</li> <li>b) Principles of development</li> <li>c) Factors affecting growth and development</li> </ol>	15%
<b>Unit -III</b>	<b>Pre-natal Development</b> <ol style="list-style-type: none"> <li>a) The beginning of a new life prenatal development</li> <li>b) Factors influencing prenatal development</li> <li>c) Signs of pregnancy</li> <li>d) Care of pregnant women</li> <li>e) Birth Process</li> <li>f) Types of birth and effect on child</li> </ol>	15%
<b>Unit -IV</b>	<b>Stages of life span meaning and introduction of different stages in Life.</b> <ol style="list-style-type: none"> <li>a) Infancy</li> <li>b) Physical development, physical growth, change in body proportion ,</li> <li>c) Change in height, baby weight.</li> <li>d) Brain development.</li> </ol> <b>Baby hood</b> <ol style="list-style-type: none"> <li>a) Babyhood skills</li> <li>b) Speech development (crying, babbling, gestures)</li> </ol> <b>Early childhood:-</b> <ol style="list-style-type: none"> <li>a) Social development</li> <li>b) Development of emotion</li> </ol>	60%



- c) Common emotions of early childhood (Anger, fear, jealous, curiosity, joy, affection)
- d) Factors influencing social development.

Late childhood

- a) Skills of late childhood.
- b) Speech improvement in late childhood (pronunciations, forming sentences and speech)
- c) Moral development
- d) Socialization
- e) Developments of concepts
- f) Factors influencing moral development

Adolescence:-

- a) Need, problems and interest in Adolescence.
- b) Guidance to Adolescence.
- c) Social and emotional maturity

Characteristics of Adulthood

- a) Adjustment to change family patterns in middle age
- b) Vocational and family life hazards

**OUTCOME:**

1. They will understand all the stages of lifespan.
2. They will come to know about various developments.
3. Students will learn about principles of growth and development.

**REFERENCES:**

1. Mussen, P. N Conger, J.J. Kagar, J & Huston, A C(1990) Child Development & Personality(7ed) N. Y Harper Collins.
2. Cole M & Cole. S (1993) : The development of children. New York: Scientific American Books.
3. Hurlock “ development and psychology”
4. Pappalia “ human development”
5. Berk L.E. “child development” new delhi
6. Craig G. “human development” N.J. Prentice Hall
7. Cole M. and Cole S. “The development of Children

**First Year B.Sc. (Home) I-Semester**  
**INTRODUCTION TO HUMAN DEVELOPMENT**  
**Course code: UH01CHUD32**

<b>Credit: 01</b>	<b>Practical</b> <b>Pd/ Wk: 02</b>	<b>Marks: 50</b>
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**Objectives:-**

1. To acquaint the students about growth monitoring & anthropometric Measurements of a child.
2. The introduction and application of the basic tools of research in the field of Human Development to the students

**Practical:**

1. Growth monitoring.  
Anthropometric measurements of a child. Ht. Wt., circumferences etc. [by the use of Salter Scale and MUAC]
2. Observation of individuals of different stages of life with the help of checklist.
  1. Neonate
  2. Infancy
  3. Early childhood
  4. Late childhood
  5. Adolescence
  6. Young adulthood
  7. Middle age
  8. Late adulthood
3. The major tools of research in child study/ the field of human development.
  - a. Case study
  - b. Interview
  - c. Questionnaire
4. Organize film show/slide show/PPT for the students:
  - a) Stages of pregnancy
  - b) Types of birth
  - c) Neonate care

**First Year B.Sc. (Home) I-Semester**  
**INTRODUCTION TO FOODS AND NUTRITION**  
**Course Code: UH01CFDN33**

<b>Credit : 02</b>	<b>Theory</b> <b>Pd/Wk: 02</b>	<b>Marks: 50</b>
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**Objectives:**

1. To understand the functions of food and the role of the various nutrients and their requirements
2. To be familiar with different methods of cooking, their advantages and disadvantages.
3. To gain knowledge of improving nutritional quality of food

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit -I</b>	<ol style="list-style-type: none"> <li>1. Concept of Nutrition, function of Foods, Basic five food and their contribution to balanced diet.</li> <li>2. Method of cooking –advantages and disadvantages ,its effect on nutritive value,</li> <li>3. Improving nutritional quality foods(germination,fermentation,substitution,fortification,enrichment and Supplementation)</li> </ol>	30%
<b>Unit -II</b>	Classification ,sources, function, RDA of Protein ,Carbohydrate and Fats	20%
<b>Unit -III</b>	Classification ,sources, function, RDA of water soluble vitamins: Thiamine, Riboflavin, Niacin, Pyridoxine, Pantothenic acid ,vitamin B12, folic acid and vitamin C	20%
<b>Unit-IV</b>	Classification ,sources, function, RDA of Fat soluble vitamins: Vitamin A,D,E,K	15%
<b>Unit-V</b>	Classification ,sources, functions of RDA of Mineral: Calcium, Phosphorus, Iron, Zinc, Flourine, Iodine ,Selenium, Magnesium	15%

**OUTCOMES:**

1. The students will learn to identify and classify rich sources of nutrients and it will help them to improve quality of life



**REFERENCES:**

1. Educational Planning group(1991) : “Food and Nutrition, Text book of home science For senior students.”3rd Edition, Arya publishing house, New Delhi.
2. Mudambi, S.R and Rajagopal M.V . Fundamentals of Nutrition, New Age International Ltd.
3. Food science and Nutrition by SunetraRoday, Oxford publication
4. Fundamentals of Foods, Nutrition and Diet Therapy  
MudambiSumati R.

**First Year B.Sc. (Home) I-Semester  
INTRODUCTION TO FOODS AND NUTRITION  
Course Code: UH01CFDN34**

**Credit : 01**

**Practical  
Pd/Wk: 02**

**Marks: 50**

**Practicals:**

**Plan and Prepare rich recipes for the following :**

- 1 Carbohydrates
- 2 Protein(incorporating combination of cereals and pulses)
- 3 Fat
- 4 Vitamin B1(Incorporating fermentation and germination)
- 5 Vitamin B2
- 6 Vitamin C
- 7 Vitamin A
- 8 Iron
- 9 Calcium

**First Year B.Sc. (Home) I-Semester  
COMPUTER BASIC  
Course Code: UH01EHSC01**

<b>Credit : 01</b>	<b>Theory Pd/Wk: 02</b>	<b>Marks: 50</b>
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**Objective**

1. To familiarize with basics of computer.
2. To develop basic skills of using computer.
3. To develop basic understanding of computer system operation and information accessing tools.

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit –I</b>	<p><b>A. History of Computer</b></p> <ul style="list-style-type: none"> <li>• Early computing machines</li> <li>• Classification of computers</li> </ul> <p><b>B. The computer system – Input-output Devices and data recording media</b></p> <ul style="list-style-type: none"> <li>• Characteristics of a computer</li> <li>• Components of a computer system</li> </ul> <p><b>C. Computer peripherals</b></p> <ul style="list-style-type: none"> <li>• Input Devices</li> </ul> <p><b>D. Data recording media</b></p> <ul style="list-style-type: none"> <li>• Primary memory</li> <li>• Secondary memory</li> </ul>	<ul style="list-style-type: none"> <li>• Generation of computers</li> <li>• Basic applications of a computer</li> <li>• Output Devices</li> <li>• Representing characters in memory</li> <li>• Cache memory</li> </ul>
<b>Unit –II</b>	<p><b>A. Computer Languages and communication technology.</b></p> <p><b>B. MS windows</b></p> <ul style="list-style-type: none"> <li>• Introduction to window</li> <li>• Window 95/98/Xp in brief</li> <li>• Component of start menu</li> </ul>	<ul style="list-style-type: none"> <li>• Desktop</li> <li>• Taskbar</li> </ul>
<b>Unit –III</b>	<p><b>(A) Data organization</b></p> <ul style="list-style-type: none"> <li>• Windows explorer</li> <li>• Controlling window sizes</li> </ul> <p><b>(B) Window Accessories</b></p> <ul style="list-style-type: none"> <li>• Notepad</li> <li>• Paint</li> <li>• Calculator</li> </ul>	<ul style="list-style-type: none"> <li>• Basic components of window</li> <li>• Shortcuts</li> <li>• WordPad</li> <li>• Clipboard</li> </ul>



**Unit –IV A. Microsoft word**

30 %

- Features of word processor
- Introduction MS-word
- Creating / Saving / Opening / Closing document

**B. Editing and Formatting a Documents**

- Selecting text
- Moving Text
- Moving the insertion point
- Formatting the document
- Inserting Text/Overtyping Text
- Headers and footers
- Inserting a line
- Using Grammar and spell check
- Deleting Text
- Using thesaurus
- Undo command
- Using Tab
- Redo command
- Newspaper style columns
- Copying Text
- Printing & document

**C. Word art**

- Inserting word art
- Inserting clipart
- Drawing art objects
- Bullets and numbering
- Find and replace
- Mail merge
- Inserting Tables

**First Year B.Sc. (Home) I-Semester  
COMPUTER BASIC  
Course Code: UH01EHSC02**

<b>Credit : 01</b>	<b>Practical Pd/Wk: 02</b>	<b>Marks: 50</b>
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**Practicals:**

1. Make a list of the storage devices that are used to store the data, used in your computer lab and also write the configuration of your computer Ram, Hard-disk, etc.
2. Practical on use of basic window Accessories (2 exercise)
3. Create a new document & type a (Letter/Paragraph/ Article).
4. By using different icons change document as per instructions.
5. Search, Collect & Save the given topic on different search engine and create your account on Gmail & send mail to your friend.

**First Year B.Sc. (Home) I-Semester  
NATIONAL SERVICE SCHEME  
Course Code: UH01EHSC03**

<b>Credit : 01</b>	<b>Theory Pd/Wk: 02</b>	<b>Marks: 50</b>
<b>Unit -I: Introduction and Basic Concepts of NSS</b>		10%
a) History, philosophy, aims & objectives of NSS		
b) Emblem, flag, motto, song, badge etc.		
c) Organizational structure, roles and responsibilities of various NSS		
d) functionaries		
<b>Unit -II: NSS Programmes and Activities</b>		30%
a) Concept of regular activities, special camping, Day Camps		
b) Basis of adoption of village/slums, Methodology of conducting Survey		
c) Financial pattern of the scheme		
d) Other youth prog./schemes of GOI		
e) Coordination with different agencies		
f) Maintenance of the Diary		
<b>Unit -III: Understanding Youth</b>		10%
a) Definition, profile of youth, categories of youth		
b) Issues, challenges and opportunities for youth		
c) Youth as an agent of social change		
<b>Unit -IV: Community Mobilisation</b>		30%
a) Mapping of community stakeholders		
b) Designing the message in the context of the problem and the culture of the community		
c) Identifying methods of mobilisation		
d) Youth-adult partnership		
<b>Unit -V: Volunteerism and Shramdan</b>		20%
a) Indian Tradition of volunteerism		
b) Needs & importance of volunteerism		
c) Motivation and Constraints of Volunteerism		
d) Shramdan as a part of volunteerism		

**First Year B.Sc. (Home) II-Semester  
ENGLISH  
Course Code: UH02FENG21**

**Theory**  
**Credit : 02 Pd/Wk: 02 Marks: 50**

**Objectives:**

1. To develop advanced reading and writing skills among learners.
2. To enhance core vocabulary to be conversant in English

**Note:-** Three Short stories selected from prescribed collection  
Name of the Text: Ten Short Stories  
Edited by Jatin Mohanty. Universities Press  
(Story No. 1. What Men Live By, 3. A Cup of Tea, 7. The Bet)

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit :I</b>	Questions based on short stories to be asked.	30%
<b>Unit :II</b>	(A) Short notes based on short stories. (Any One) (B) Report Writing	10% 10%
<b>Unit :III</b>	Grammar and Vocabulary a) Jumbled Up Sentences b) Prefix and Suffix c) Confused Words (Match A with B)	30%
<b>Unit :IV</b>	Letter Writing: Formal and Informal letters to be asked (any one)	20%

**OUTCOME:**

- At the end of this course learners will be able to:
1. To write formal Write –ups like reports etc.
  2. To use essential words in English to communicate

**REFERENCES:**

1. Essentials of Business Communication – Rajendra Pal and JS Korlahalli (Sultan Chand & Sons)
2. Modern Commercial Communication – BS Shah Publication, Ahmedabad
3. Cambridge International Dictionary of Phrasal Verbs – Cambridge University Press
4. Developing Communication Skills – Krishna Mohan & Meera Benerji (Macmillan)
5. Business Communication – US Rai & SM Rai (Himalaya Publishing House, Mumbai)





<b>Unit-III</b>	<b>Ways and Approaches of Addressing Public</b>	10%
	<ul style="list-style-type: none"> <li>a) Up-beat Body Language</li> <li>b) Preparing &amp; Crafting a Speech</li> <li>c) Citation of day-to-day Examples</li> <li>d) Analyzing Impact and Influence of Speech on Audience</li> <li>e) Taking Appropriate Pauses</li> <li>f) Verbal and Visual Support</li> </ul>	
<b>Unit-IV</b>	<b>Types of Speeches</b>	10%
	<ul style="list-style-type: none"> <li>a) Informative</li> <li>b) Persuasive</li> <li>c) Entertaining</li> </ul> <p>Importance of Ice-Breakers</p> <ul style="list-style-type: none"> <li>a) At Formal and Informal Gathering</li> <li>b) Effective during Team Building Event</li> </ul>	
<b>Unit-V</b>	<b>Qualities of a Presenter or a Communicator</b>	30%
	<ul style="list-style-type: none"> <li>a) Personal Appearance</li> <li>b) Vocal Delivery</li> <li>c) Body Language</li> <li>d) Gestures and Facial Expressions</li> <li>e) Awareness about Latest Multimedia Tools and its Applications</li> <li>f) Clarity of Pronunciations</li> <li>g) Acknowledgement of the Subject</li> <li>h) Etiquettes and Mannerism</li> </ul>	

**OUTCOME:**

1. The students shall be able to understand the importance of Speaking and writing effectively in every walk of life.
2. At the end of the course, the students shall become more confident in presenting their views and opinions in front of public.
3. It also shall enhance the personality of the student.

**REFERENCES:**

1. The Small Book of Big Presentation Skills: R.K.Bali, A.Dwivedi and Rajeev K.Bali  
Publisher: Lexden Publishing
2. Effective Communication and Public Speaking: S.K.Mandal Publisher: Jaico Publishing House
3. Corridors to Communication: Ranu Vanikar Publisher: Orient Longman

**First Year B.Sc. (Home) II-Semester  
CHEMISTRY  
Course Code: UHO2CCHE23**

**Theory**  
**Credit : 02 Pd/Wk: 02 Marks: 50**

**Objectives:**

1. To provide basic knowledge related to organic chemistry including petroleum products.
2. To acquaint students with the application of basic knowledge of chemical ingredient and various organic products.

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit-I</b>	<ol style="list-style-type: none"><li>a) <b>Introduction to organic chemistry</b><ol style="list-style-type: none"><li>a) Introduction</li><li>b) sources</li><li>c) importance</li><li>d) petroleum</li></ol></li><li>b) <b>Organic compounds</b><ol style="list-style-type: none"><li>a) Hydrocarbons</li><li>b) Functional Groups</li><li>c) IUPAC nomenclature</li><li>d) Examples of aliphatic and aromatic compounds</li><li>e) Isomerism</li><li>f) Homologues series</li><li>g) Properties of alkane, alkene, alkyne.</li></ol></li></ol>	<b>20%</b>
<b>Unit-II</b>	<ol style="list-style-type: none"><li>a) <b>Structures, Properties And Uses Of Organic Compound</b><ol style="list-style-type: none"><li>a) Citric Acid</li><li>b) Tartaric Acid</li><li>c) Phenol</li><li>d) Acetone</li><li>e) Ethyl Alcohol,</li><li>f) Glycerin,</li><li>g) Glucose</li><li>h) Formaldehyde,</li><li>i) Carbon Tetra Chloride,</li><li>j) Naphthalene,</li><li>k) Paracetamol</li><li>l) Aspirine</li></ol></li></ol>	<b>20%</b>

- b) **Fuels**
  - a) Classification
  - b) Characteristics
  - c) Important properties
  - d) Units
  - e) Types of fuels

**Unit-III**

**20%**

- a) **Soap and Detergent**
  - a) Soap
  - b) Preparation
  - c) Cleansing action
  - d) Advantages and limitations,
  - e) Detergent
  - f) Classification
  - g) Bio soft and bio hard
  - h) Advantages and limitations
  - i) Difference between Soap and Detergent
  - j) Ingredients
  - k) Preparation of dish washing powder
  - l) Liquid soap,
  - m) Phenyl
  - n) Detergent
- b) **Pesticides**
  - a) Definition and explanation
  - b) Classification
  - c) Some important Pesticides (DDT, BHC)

**Unit-IV**

**20%**

- a) **Polymer**
  - a) Definition and explanation
  - b) Classification
  - c) General Properties
  - d) Structures, properties and uses of following Polymers
    - (1) Polythene
    - (2) Polystyrene
    - (3) Polypropylene
    - (4) Polyvinylchloride
    - (5) Teflon
    - (6) Nylon
    - (7) Polyester
    - (8) Bakelite
    - (9) Melamine
    - (10) UFR.
- b) **Dyes and drug**
  - a) Definition and explanation
  - b) Classification with example.

## Unit-V

20%

- a) **The molecule of life**
  - a) Carbohydrates
  - b) Lipids
  - c) Proteins
  - d) Enzymes
  - e) Nucleic acids
  - f) Vitamin
  - g) Hormones.
- b) **Water**
  - a) Sources
  - b) Types of impurities
  - c) Effect of impurities
  - d) Hardness
  - e) Types of hardness
  - f) Units of hardness
  - g) Water treatment for domestic purpose.

### Out come

1. Students completing this course will be able to give answer about uses of organic chemistry in various branches of home science.
2. Students will be able to make a chemical structures, properties of some important organic chemicals . student also gain knowledge about dyes, drugs, fibers ,polymers and various house hold organic chemicals.
3. Students will also be able to know molecule required for life and about water.

### Reference:

- (1) Chemistry for F. Y. B. Sc. Home Science
- (2) Fundamental Chemistry by P. L. Soni
- (3) Organic Chemistry by B.S. Bhal
- (4) Chemistry –Std- XI (Gujarat State boards of School text book)
- (5) Chemistry –Std-XII (Gujarat State boards of School text book)
- (6) Chemistry for XI & XII by R.D. Madan &B.S. Bisht
- (7) A text book of Applied Chemistry for Home Science and allied Science by thankamma Jacob.
- (8) Understanding Chemistry by CNR Rao
- (9) Synthetic Organic Chemistry by Gurdeep R. Chatwal.
- (10) Chemical technology in Gujarati by Yogi Prakashan.

**First Year B.Sc. (Home) II-Semester  
CHEMISTRY  
Course Code: UHO2CCHE24**

<b>Credit : 01</b>	<b>Practical Pd/Wk: 02</b>	<b>Marks: 50</b>
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**Practical :**

- (1) Identification of Functional group from mono substituted Organic Compounds.
- (2) Redox titration :  $\text{KMnO}_4 \rightarrow \text{FeSO}_4, 7\text{H}_2\text{O}$   
 $\text{KMnO}_4 \rightarrow \text{Oxalic acid}$   
 $\text{K}_2\text{Cr}_2\text{O}_7 \rightarrow \text{FeSO}_4, 7\text{H}_2\text{O}$



**First Year B.Sc. (Home) II-Semester  
BIOLOGY  
Course Code: UH02CBIO25**

<b>Credit : 02</b>	<b>Theory Pd/Wk: 02</b>	<b>Marks: 50</b>
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**Objectives:**

1. To acquaint the students with the practices of gardening
2. Training the students to learn the garden operations and take care of indoor/outdoor plants and make use of cut flowers.
3. To make them understand the significance of growing vegetable in the home garden.

<b>Theory</b>	<b>Content</b>	<b>Weight age</b>
<b>Unit-I</b>		<b>25%</b>
	<ol style="list-style-type: none"> <li>1. Horticulture               <ol style="list-style-type: none"> <li>a) Introduction,</li> <li>b) Significance and scope</li> <li>c) Different branches</li> </ol> </li> <li>2. Landscaping               <ol style="list-style-type: none"> <li>a) Design and lay-out of a garden (essential and decorative features)</li> </ol> </li> <li>3. Vegetables               <ol style="list-style-type: none"> <li>a) Kitchen garden, Planning and vegetable culture</li> </ol> </li> <li>4. Making of a lawn and its maintenance</li> </ol>	
<b>Unit-II</b>		<b>25%</b>
	<ol style="list-style-type: none"> <li>1. Summer, winter and rainy season common annuals, Herbs shrubs, creepers, trees, Edge Plants and hedge plants</li> <li>2. Propagation methods</li> <li>3. Rose cultivation and maintenance</li> <li>4. Cacti and bulbous plants</li> </ol>	
<b>Unit-III</b>		<b>25%</b>
	<ol style="list-style-type: none"> <li>1. Pot culture and Indoor gardening selection and placement of indoor plants first aid,</li> <li>2. Grooming and general care of house plants.</li> <li>3. Cut flowers – varieties, care and handling</li> </ol>	

**Unit -IV****25%**

1. Garden operations and Nursery management
  - a) Staking, Budding, Disbudding,
  - b) Types of soil enrichment, Organic and Inorganic Manures  
Compost making.
2. Common pest and diseases of plants.

**Outcome:**

- 1) At the end of the course students would learn the fundamentals of Horticulture and landscaping.
- 2) They learn about creation and maintains of Home garden.
- 3) Knowledge of Horticulture might enable the students to establish a nursery and generate Income.

**First Year B.Sc. (Home) II-Semester  
BIOLOGY  
Course Code: UH02CBIO26**

<b>Credit : 02</b>	<b>Practical Pd/Wk: 02</b>	<b>Marks: 50</b>
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**Practicals:**

Practicals will be conducted related to theory course and the records will be maintained by each candidate in a special record book / journal

**Contents of the practicals:**

1. Garden tools
2. types of pot filling and repotting
3. methods of plant propagation division, cutting layering graft age
4. study of flowering annuals shrubs creepers and trees
5. ornamental plants foliage
6. Cacti and bulbous plants
7. preparing seed bed and transplanting seeding and growing vegetables
8. preparing a plan of home garden
9. use of cut flowers
10. learning garden operation and study of pests & diseases
11. Organic and inorganic fertilize and compost making

**Reference Books**

1. Gopalswamiengar (1970) : 'Complete Gardening in India : G. Kasturi Rangan, 177, 5<sup>th</sup> Rd. CHAMARJPET, Banglore-18
2. Grindal E. W. 1968 : Everyday Gardening in India : D.B. Taraporevala Sons & Co. Dr. Dadabhai Naorojo Road Fort Bombay – 1
3. Trivedi P.P 1983 : Home Gardening ; Indian council of Agricultural Research New Delhi
4. Bose T.K.& Mukharjee D. 1977 Gardening in India Gulab Primalani oxford & IBH Publishing Co. 17 Park Street Calcutta 700016.
5. Manibhushan Rao K. 1991 : Text books of Horticulture , Macmillan India Ltd. 2/10

Ansari Rd: Daryaganj New Delhi 110002.

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**First Year B.Sc. (Home) II-Semester**  
**FAMILY DYNAMICS**  
**Course Code: UH02CHUD27**

**Theory**  
**Credit : 01 Pd/Wk: 01 Marks: 25**

**Objectives:**

1. To acquaint the students with the dynamics of contemporary marriage and its alternatives.
2. To sensitize the students to dynamics of family systems in India.
3. To make the students aware of some pertinent contemporary issues that affect the quality of life of individual families and community.

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit-I</b>	1. Definition of family 2. Functions of family 3. Types of family with reference to India	10%
<b>Unit-II</b>	1. Family life cycle – stages and sub stages 2. Changing trends in India regarding family pattern – structural, functional 3. Alternate family life styles a) Female headed households b) Single parent families c) Working families d) Families with adopted children e) Voluntary childlessness f) Live in relationship	15%
<b>Unit-III</b>	1. Marriage as an institution a) Definition of marriage b) Need of marriage c) Types of marriage d) Changes and challenges in marriage	10%
	2. Selection of a life partner a) Factors influencing b) Changing trends [sources] c) Arranged and personal choices	10%
	3. Preparation for marriage a) Social and emotional issues b) Financial concerns	10%

	4. Marital adjustments	10%
	a) Individual roles, rights and responsibilities within the family	
	b) Areas of adjustment within the family.	
	c) Ways of dealing with adjustment	
	d) Planned parenthood	
	e) Qualities for enhancement of marital adjustment	
<b>Unit-IV</b>	Significant contemporary issues and concerns:	35%
	a) Families with marital disharmony and crisis, casual factor responsible for stress in family.	
	b) Violence in the family, children, women and elderly.	
	c) Interventions for families in trouble scope, needs and assessment 15%	
	d) Counselling – premarital and marital	
	e) Help lines and welfare programs.	

**OUT COME:**

1. It will help in mate selection, preparation of marriage, adjustment in marriage.
2. Students will learn about the dynamics of family system in india.
3. Students will come to know contemporary issues related to marriage and family.

**REFERENCES:**

1. Mussen, P. N Conger,J.J. Kagar, J & Huston, A C(1990) Child Development & Personality(7ed) N. Y Harper Collins.
2. Cole M & Cole. S (1993) : The development of children. New York: Scientific American Books.
3. Hurlock “ development and psychology”
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5. Berk L.E. “child development” new delhi
6. Craig G. “human development” N.J. Prentice Hall



**First Year B.Sc. (Home) II-Semester  
INTRODUCTION TO TEXTILES  
Course Code: UHO2CTCL28**

**Theory**  
**Credit : 02 Pd/Wk: 02 Marks: 50**

**Objectives:**

1. To impart knowledge of various fibers, yarns and fabrics used in textiles.
2. To gain knowledge on various fabric construction techniques, its fabric count and relation to the weight of fabric.

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit-I</b>	<b>Classification of Textile fibers</b>	<b>10%</b>
<b>Unit-II</b>	<b>Properties, use &amp; care of the natural fibers</b>  1. Animal/ Protein fiber 2. Plant/ Cellulosic fiber 3. Natural Rubber 4. Natural Mineral	<b>20%</b>
<b>Unit-III</b>	<b>Properties, use &amp; care of the manufactured fibers</b>  1. Regenerated fiber 2. Synthetic fiber 3. Inorganic fiber	<b>20%</b>
<b>Unit-IV</b>	<b>Yarns</b>  1. Classification of yarns 2. Types of yarns – Simple, Novelty , Textured, Threads	<b>20%</b>
<b>Unit-IV</b>	<b>Methods of Fabric construction</b>  1. Weaving-properties, uses and care 2. Knitting- properties, uses and care 3. Non-woven- properties, uses and care 4. Other methods- laces, braiding, tufting etc.	<b>20%</b>

**Unit-V Textile Finishes**

**10%**

1. Classification- temporary, durable, permanent
2. Importance

**References:**

1. Fiber Science And Technology, Nakamar A (1996), Oxford & IBH Pub. Bombay.
2. Fundamentals of Textiles and Their Care, (1996), Dantyagi Sushila
3. Modern Home Laundry Work, Hentry E, Byett J.D
4. Fabric Structure & Design;( 2009) N. Gokaneshan; New Age International (P) Ltd. New Delhi;
5. Textile-Fibers to Fabrics, (1983) B.P.Corbman; M.C.grow Hill International Editions;
6. Textile technology to GCSE(1999), Dawn J., Oxford university press

**First Year B.Sc. (Home) II-Semester  
INTRODUCTION TO TEXTILES  
Course Code: UHO2CTCL29**

<b>Credit : 02</b>	<b>Practical Pd/Wk: 02</b>	<b>Marks: 50</b>
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**Practical :**

1. Fiber identification(microscopic appearance)
  - a) cotton, jute, silk, wool, rayon, acetate, polyester, nylon
  
2. Calculate fabric count
  - a) poplin, muslin, buckram/canvas, kantaan, lizy bizy, art silk,
  
3. Study the weight per unit area
  - a) georgette, jean, poplin, flannel, jersey, marquise/ net, velvet
  
4. Sample collection and fabric identification(any 05 each)
  - a) Woven fabrics
  - b) knitted fabrics
  - c) non-woven fabrics
  
5. Sample Collection of types of yarn
  - a) Simple yarn- single, ply, cord
  - b) Novelty yarn- loop, slub, ratine, metallic
  - c) Textured yarn

**Second Year B.Sc. (Home) II-Semester**  
**BASICS OF DESIGN APPLICATION**  
**Course code: UHO2CFRM30**

**Theory**  
**Credit: 03 Pd/Wk: 03 Marks: 100**

**Objectives:**

1. To guide students gain an understanding of basic art principles
2. To learn to appreciate art.
3. To develop skill in creating designs and making art objects
4. To develop an understanding to the application of principles of art and design in decoration.
5. To develop ability of using colors effectively.

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit-I</b>	<b>Design Fundamentals</b>	<b>30%</b>
	<ol style="list-style-type: none"><li>1. Objectives of Art &amp; Interior Design.</li><li>2. Types of Design: Structural &amp; Decorative.</li><li>3. Elements of Art: Space, Point, Line, Shape, Form, Texture, Light &amp; Color.</li><li>4. Principles of Art – Rhythm, Balance, Proportion, Emphasis, Unity</li></ol>	
<b>Unit-II</b>	<b>Color And its application</b>	<b>35%</b>
	<ol style="list-style-type: none"><li>1. Importance of color and its role in Art</li><li>2. Dimensions of color: hue, value and intensity</li><li>3. Classification of color: primary, secondary, intermediate, tertiary and quaternary colors.</li><li>4. Color harmonies: Related and contrast</li><li>5. Effect of color</li></ol>	
<b>Unit-III</b>	<b>Flower arrangement as an Art</b>	<b>15%</b>
	<ol style="list-style-type: none"><li>1. Importance and types</li><li>2. Application of Principle of Art</li><li>3. Equipments and accessories</li></ol>	
<b>Unit-IV</b>		
	<ol style="list-style-type: none"><li>1. Lights and its use in interiors( Direct and indirect Light)</li><li>2. Accessories in interior</li></ol>	<b>20%</b>

**OUTCOMES:**

1. The students will be able to understand the basic concept of design and principle of art.
2. The students will be enlightened regarding color and its usage.
3. The course will help them to understand the art of flower arrangement.
4. The course is designed to prepare the students to recognize the significance of light and accessories as an art.

**REFERENCES:**

1. Anna Hong Rutt (1948) "Home Furnishing" Joh Wiley and Sons, New Yourk.
2. Bhatt Pranav and Goenka Shantika, (1990) "Foundation of Art and Design: The lakperw book depot Bombay.
3. Crag Hazel and Rush Day (1952) "Homes with Character" Bosten D. C. Health and Co.
4. Varghesem N.N.Ogale K. Srinivasan (1996) "Home Management" New Age International Ltd.
5. "Home Management" (1993) Arya publishing House, New Delhi.
6. Han Hall, "The Creative book of Flower Arranging" Salmander Books Ltd., London.
7. "Creative Ideas with color from creating a h\Home Series" (1997), Ward lock, UK.

**Second Year B.Sc. (Home) II-Semester  
BASICS OF DESIGN APPLICATION  
Course code: UHO2CFRM31**

**Credit: 01**

**Practical  
Pd/Wk: 02**

**Marks: 50**

**Practical: Maintaining a scrap book on**

1. Color wheel
2. Classes of color
3. Properties of color
4. Color harmonies
5. Types of printing
6. Flower arrangements
7. Rangoli
8. Greeting cards
9. Preparation of one accessory

**First Year B.Sc. (Home) II-Semester  
NUTRITION FOR FAMILY  
Course Code: UH02CFDN32**

**Theory**  
**Credit: 02 Pd/Wk: 02 Marks: 50**

**Objectives:-**

To Enable Students-

1. To learn the principles of meal planning.
2. To be able to plan and prepare a balanced meal for different age groups and special group.
3. Plan meal for different income and activity groups.

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit-I</b>	Meaning, Objectives, Factors affecting meal planning, basic meal of the day, basic meal pattern and its modification to suit different levels, use of food groups in meal planning. MEAL PLANNING DURING VARIOUS PHASES OF LIFE.	15%
<b>Unit-II</b>	1. Adolescent age 2. Adulthood	10% 15%
<b>Unit-III</b>	1. Pregnancy-reasons for increased requirements. 2. Lactation- reasons for increased requirements.	10% 10%
<b>Unit-IV</b>	1. Infancy and preschoolers 2. Importance-Breast Feeding, ARF, Weaning 3. School going children	15% 10%
<b>Unit-V</b>	1. Athlete 2. Geriatrics	05% 10%

**OUTCOMES:**

The students will learn to plan meals with reference to age, gender, occupation, income and nutritional needs.

**REFERENCE:**

1. Educational Planning group(1991) : “Food and Nutrition, Text book of home Science. For senior students.” 3rd Edition, Arya publishing house, New Delhi.
2. Mudambi, S.R and Rajagopal M.V . Fundamentals of Nutrition, New Age International Ltd.

**First Year B.Sc. (Home) II-Semester  
NUTRITION FOR FAMILY  
Course Code: UH02CFDN33**

**Practical**

**Credit: 01** **Pd/Wk: 02** **Marks: 50**

**Objectives:**

1. To familiarize the students with planning of balanced meals.
2. To sensitize the students to differences in dietary requirements and nutritional needs
3. through the different stages of lifespan
4. To equip the students with skills to plan balanced meals

\*Record of one's own diet based on factors affecting balanced diet.

**MEAL PLANNING THROUGH VARIOUS STAGES OF LIFE SPAN.**

\*Meal planning according to meal times viz. – breakfast, lunch, dinner and contribution of each meal to meal planning

<b>Practical</b>	<b>Content</b>
1	Meal planning with the use of five food groups (balanced meal)
2	Meal planning for Adolescent boy and girl-(Differences
3	Meal planning for Adult Men
4	Meal planning for Adult Women
5	Meal planning for Pregnant women(different income)
6	Meal planning for Lactating women (different income)
7	Meal planning for infants (6-12 months)
8	Meal planning for pre-school child
9	Meal planning for school age children (including packed lunch)
10	Meal planning for Geriatric age.





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|----|--|-----|
| c) | Healthy habits   | 10% |
|    | i) Importance of health checkups                               |     |
|    | ii) Mental health  |     |
|    | iii) Importance of recreation / hobbies in one's own life.     |     |
| d) | AIDS and sexually transmitted diseases awareness and education | 5%  |

**References:**

- Mussen, P. N Conger, J.J. Kagar, J & Huston, A C(1990) Child Development & Personality(7ed) N. Y Harper Collins.
- Cole M & Cole. S (1993) : The development of children. New York: Scientific American Books.
- Hurlock “ development and psychology”
- Pappalia “ human development”
- Berk L.E. “child development” new delhi
- Craig G. “human development” N.J. Prentice Hall
- Cole M. and Cole S. “The development of Children ”

**First Year B.Sc. (Home) II-Semester  
COMPUTER APPLICATION  
Course Code: UH02EHSC01**

**Theory**  
**Credit: 01 Pd/Wk: 02 Marks: 50**

**Objectives:**

1. To develop skills in using tools of word processor, to manage data base, to make graphs, to analyze reports using spread sheet.
2. To make the students aware about various services offered by the internet.
3. To give knowledge about troubleshooting tips for software.

<b>Theory</b>	<b>Content</b>	<b>Weightage</b>
<b>Unit –I MS-Powerpoint</b>		20 %

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| a) Starting powerpoint            | i) Adding new text boxes            |
| b) Creating a presentation        | j) Working with text levels         |
| c) Saving the presentation        | k) Selecting text                   |
| d) Naming presentations           | l) Editing text and formatting text |
| e) Opening a presentation         | m) Changing the layout of a slide   |
| f) Powerpoint views               | n) Displaying the ruler             |
| g) Creating and Editing slides    | o) Applying a new design            |
| h) Entering text in a placeholder | p) Changing the slide background    |

<b>Unit –II (A) Charts and Drawing objects</b>	20 %
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- |                                    |                    |
|------------------------------------|--------------------|
| a) Inserting an organization chart | b) Drawing objects |
| c) Inserting a clipart picture     |                    |

**(B) Giving life to a presentation**

- |                               |  |
|-------------------------------|--|
| a) Adding Sound               | e) Saving a presentation to<br>always open as a slide show |
| b) Animating text and objects | f) Setting timing for a slide show                         |
| c) Side transition            | g) Printing presentation items                             |
| d) Starting a slide show      |  |

**Unit –III (A) MS-Excel**

20 %

- a) Advantages of spreadsheets (Excel)
- b) Starting Excel
- c) Workbook, Worksheets and cells
- d) Saving a workbook
- e) Entering information (Date in worksheet)
- f) Types of Data

**(B) Editing and formatting data in worksheet**

- a) Selecting a range
- b) Editing cell contents
- c) Undo/Redo command
- d) Deleting data
- e) Copying data
- f) Moving data
- g) Inserting rows and columns
- h) Deleting Row/Columns
- i) Inserting / Deleting cells
- j) Changing row height
- k) Changing columns width
- l) Formatting data
- m) Formatting data
- n) Formatting text
- o) Adding comments
- p) Using auto fill
- q) Creating custom lists

**Unit –IV Formulas in Excel**

20 %

- a) Formula in Text
- b) Formula in Numeric
- c) Auto sum feature
- d) Auto calculate
- e) Cell referencing in worksheet
- f) Using simple statistical functions
- g) What-if analysis
- h) Data tables

**Unit –V Creating charts in excel**

20 %

- a) Chart types of MS-Excel
- b) Components of chart
- c) Creating a chart in MS-Excel
- d) Editing a chart
- e) Printing worksheets

**First Year B.Sc. (Home) II-Semester  
NATIONAL SERVICE SCHEME  
Course Code: UH02EHSC03**

<b>Credit: 01</b>	<b>Theory Pd/Wk: 02</b>	<b>Marks: 50</b>
<b>Unit -I: Importance and Role of Youth Leadership</b>		15%
a) Meaning and types of leadership		
b) Qualities of good leaders; traits of leadership		
c) Importance and role of youth leadership		
<b>Unit -II: Life Competencies</b>		35%
a) Definition and importance of life competencies		
b) Communication		
c) Inter Personal		
d) Problem-solving and decision-making		
<b>Unit -III: Social Harmony and National Integration</b>		25%
a) Indian history and culture		
b) Role of youth in peace-building and conflict resolution		
c) Role of youth in Nation building		
<b>Unit -IV: Youth Development Programmes in India</b>		25%
a) National Youth Policy		
b) Youth development programmes at the National Level, State Level and voluntary sector		
c) Youth-focused and Youth-led organisations		