

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)

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

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

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)

**First Year B.Sc. (Home) I-Semester
CHEMISTRY
Course Code: UH01CCHE23**

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

Objectives:

1. To explain the students with the basic information about the chemical formula, chemical reactions and various types of solutions.
2. To provide knowledge regarding various acid (strong and weak) and bases.
3. To give a knowledge of electro-chemistry. and rate of chemical reaction.
4. Use of the various metals including precious metals and also with chemical formulas, its use and reactions with atmospheric changes.
5. To prepare him for other related course by providing basic knowledge in this course.

Theory	Content	Weightage
Unit -I	Fundamentals of Chemistry a) Scope and usefulness of chemistry b) Branches of Chemistry c) Classification of matter d) Laws of chemical Combination e) Structure of atom f) Bohr's Model of atom g) Electronic Configuration h) Atomic number i) Mass number j) Valence shell and Valence electrons k) Modern Periodic table l) Symbols m) Radicals n) Chemical Formula o) Chemical Bonding and Types of Bonding p) Types of Chemical Reactions q) Chemical Reactions Complete and balance	20%
Unit -II	Solution a) Types of Solution b) Methods for representing Concentration of solution c) Molarity d) Normality e) Formality	20%

- 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, H₂SO₄, HNO₃)
- f) Base-Definition
- g) General Properties of base
- h) Types of base
- i) Preparation, Properties and uses of useful base
- j) (NaOH, Na₂CO₃, NaHCO₃)
- 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%
	<ul style="list-style-type: none"> a) Redox reaction b) Definition c) Electrochemical cell d) Electrode potential e) Dry cell f) Lead Storage cell g) Corrosion 	
	Rate of Chemical reaction	
	<ul style="list-style-type: none"> 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%
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> 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

**First Year B.Sc. (Home) I-Semester
BIOLOGY
Course Code: UH01CBIO25**

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

Credit : 02

Objectives:-

To Enable Students-

1. To acquaint the students with fundamentals of Biosciences.
2. To enable the students understand the significance and utilization of plants and animals in general.
3. To familiarize the students with genetic concept.

Note: Plant body: Life processes, economic importance, cell and tissue.

Animal cell and tissue, useful and harmful organisms, Micro-organisms, Genetics, Health and diseases.

Theory	Content	Weightage
Unit I	<ol style="list-style-type: none">1. Biological Science: Introduction, major branches of Biology, its significance.2. Elementary study of plant and animal cell.3. Composition of protoplasm.4. Brief study of cell division.5. Study of plant and animal tissues.	25%
Unit II	<ol style="list-style-type: none">1. Form, structure and functions of vegetative and reproductive parts of seed bearing plants.2. Study of unisexual and bisexual flowers.3. Elementary study of pollination, fertilization and reproduction in plants.4. Plant metabolism: Transpiration, Photosynthesis and respiration.	25%
Unit III	<ol style="list-style-type: none">1. Heredity and variations.2. Sex determination in man and multiple birth.3. General Health care and common diseases in human.4. Economic importance of plants and animals.	25%
Unit IV	<ol style="list-style-type: none">1. Transport of materials in living systems<ol style="list-style-type: none">a. Diffusionb. Exchange of substances between cells and their environment.c. Intracellular exchange of substances.d. Water and food transport	25%

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.

**First Year B.Sc. (Home) I-Semester
BIOLOGY
Course Code: UH01CBIO26**

Credit : 01

**Practical
Pd/Wk: 02**

Marks: 50

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

Practical	Content
1.	Simple and compound Microscope.
2.	Typical flowering plant body.
3.	Unisexual and Bisexual flowers (Datura, Hibiscus, Sunflower, Cucurbits)
4.	Cell and tissue (Plant and Animal)
5.	Friend and foe animals.
6.	1. Sexual and asexual reproduction in plants (Seed germination and vegetative propagation) 2. Common economic plants.
7.	Sexual and asexual reproduction in plants (Seed germination and vegetative propagation)
8.	Common economic plants.
9.	Plant physiology (transpiration, Photosynthesis and Respiration)
10.	Mountings – Preparation and observation of Slides

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. ગાંડોત્રા 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

Credit :01

Practical
Pd/Wk: 02

Marks: 50

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

Theory	Content	Weightage
Unit- I	Importance of Clothing a) Brief overview of how clothing originated. b) Importance of Clothing (why it originated)	20%
Unit- II	Elements of dress design & it's effect a) Line, Color, Silhouette, Texture	20%
Unit- III	Principles of dress design & it's effect a) Harmony, Balance, Proportion, Rhythm, and Emphasis.	20%
Unit- IV	Introduction to garment construction a) Designing, cutting, sewing, finishing b) Readymade garment manufacturers their brands	20%
Unit- V	Fashion Industry 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

- 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

Credit: 01

Practical
Pd/ Wk: 02

Marks: 50

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

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

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

Credit : 01

Theory
Pd/Wk: 02

Marks: 50

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.

Theory	Content	Weightage	
Unit –I	<p>A. History of Computer</p> <ul style="list-style-type: none"> • Early computing machines • Classification of computers <p>B. The computer system – Input-output Devices and data recording media</p> <ul style="list-style-type: none"> • Characteristics of a computer • Components of a computer system <p>C. Computer peripherals</p> <ul style="list-style-type: none"> • Input Devices <p>D. Data recording media</p> <ul style="list-style-type: none"> • Primary memory • Secondary memory 	<ul style="list-style-type: none"> • Generation of computers • Basic applications of a computer • Output Devices • Representing characters in memory • Cache memory 	
Unit –II	<p>A. Computer Languages and communication technology.</p> <p>B. MS windows</p> <ul style="list-style-type: none"> • Introduction to window • Window 95/98/Xp in brief • Component of start menu 	<ul style="list-style-type: none"> • Desktop • Taskbar 	20 %
Unit –III	<p>(A) Data organization</p> <ul style="list-style-type: none"> • Windows explorer • Controlling window sizes <p>(B) Window Accessories</p> <ul style="list-style-type: none"> • Notepad • Paint • Calculator 	<ul style="list-style-type: none"> • Basic components of window • Shortcuts • WordPad • Clipboard 	20 %

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**

Credit : 01

**Practical
Pd/Wk: 02**

Marks: 50

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**

Credit : 01	Theory Pd/Wk: 02	Marks: 50
Unit -I: Introduction and Basic Concepts of NSS		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		
Unit -II: NSS Programmes and Activities		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		
Unit -III: Understanding Youth		10%
a) Definition, profile of youth, categories of youth		
b) Issues, challenges and opportunities for youth		
c) Youth as an agent of social change		
Unit -IV: Community Mobilisation		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		
Unit -V: Volunteerism and Shramdan		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)

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

**First Year B.Sc. (Home) II-Semester
EFFECTIVE SPEAKING AND WRITING
Course Code: UH02FESW22**

Theory
Pd/Wk: 02

Credit : 02 **Marks: 50**

Objectives:-

The syllabus tends to make the students aware about

1. The importance of speaking and writing skills
2. Overcome self-consciousness and physical tension when speaking.
3. Understand the communication process as it pertains to public speaking.
4. Develop good listening habits in a wide variety of speech situations.

Theory	Content	Weightage
Unit-I	Basics of Effective Speaking Need Based <ol style="list-style-type: none">a) Commonness and Uniqueness among Audience Focused and Target Orientedb) Interest and Level of Audience Selection of Topicc) As per the Demand of the Situation Content Briefingd) A Sense of Timinge) A Systematic Approachf) Planningg) Beginningh) Middlei) End Logical and Constructive Evaluation <ol style="list-style-type: none">a) Evaluating Impact of One's Speakingb) Review of Resultsc) Future Scope	10%
Unit-II	Essentials of Good Writing <ol style="list-style-type: none">a) Effective and Direct Wordsb) Comprehensive Languagec) Importance of Bullets, Highlighters, Subheading and Punctuationsd) Scientific Writing and its Applicatione) Outliningf) Draftingg) Editing	10%

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

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.

Theory	Content	Weightage
Unit-I	<ol style="list-style-type: none">a) Introduction to organic chemistry<ol style="list-style-type: none">a) Introductionb) sourcesc) importanced) petroleumb) Organic compounds<ol style="list-style-type: none">a) Hydrocarbonsb) Functional Groupsc) IUPAC nomenclatured) Examples of aliphatic and aromatic compoundse) Isomerismf) Homologues seriesg) Properties of alkane, alkene, alkyne.	20%
Unit-II	<ol style="list-style-type: none">a) Structures, Properties And Uses Of Organic Compound<ol style="list-style-type: none">a) Citric Acidb) Tartaric Acidc) Phenold) Acetonee) Ethyl Alcohol,f) Glycerin,g) Glucoseh) Formaldehyde,i) Carbon Tetra Chloride,j) Naphthalene,k) Paracetamoll) Aspirine	20%

- 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**

Credit : 01

**Practical
Pd/Wk: 02**

Marks: 50

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**

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

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.

Theory	Content	Weight age
Unit-I		25%
	<ol style="list-style-type: none">1. Horticulture<ol style="list-style-type: none">a) Introduction,b) Significance and scopec) Different branches2. Landscaping<ol style="list-style-type: none">a) Design and lay-out of a garden (essential and decorative features)3. Vegetables<ol style="list-style-type: none">a) Kitchen garden, Planning and vegetable culture4. Making of a lawn and its maintenance	
Unit-II		25%
	<ol style="list-style-type: none">1. Summer, winter and rainy season common annuals, Herbs shrubs, creepers, trees, Edge Plants and hedge plants2. Propagation methods3. Rose cultivation and maintenance4. Cacti and bulbous plants	
Unit-III		25%
	<ol style="list-style-type: none">1. Pot culture and Indoor gardening selection and placement of indoor plants first aid,2. Grooming and general care of house plants.3. Cut flowers – varieties, care and handling	

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**

Practical
Credit : 02 Pd/Wk: 02 Marks: 50

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, 5th 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 it alternates.
2. To sensitization 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.

Theory	Content	Weightage
Unit-I	1. Definition of family	10%
	2. Functions of family	
	3. Types of family with reference to India	
Unit-II	1. Family life cycle – stages and sub stages	15%
	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	
Unit-III	1. Marriage as an institution	10%
	a) Definition of marriage	
	b) Need of marriage	
	c) Types of marriage	
	d) Changes and challenges in marriage	
	2. Selection of a life partner	10%
	a) Factors influencing	
	b) Changing trends [sources]	
	c) Arranged and personal choices	
	3. Preparation for marriage	10%
a) Social and emotional issues		
b) Financial concerns		

	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	
Unit-IV	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”
4. Pappalia “ human development”
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.

Theory	Content	Weightage
Unit-I	Classification of Textile fibers	10%
Unit-II	Properties, use & care of the natural fibers	20%
	<ol style="list-style-type: none">1. Animal/ Protein fiber2. Plant/ Cellulosic fiber3. Natural Rubber4. Natural Mineral	
Unit-III	Properties, use & care of the manufactured fibers	20%
	<ol style="list-style-type: none">1. Regenerated fiber2. Synthetic fiber3. Inorganic fiber	
Unit-IV	Yarns	20%
	<ol style="list-style-type: none">1. Classification of yarns2. Types of yarns – Simple, Novelty , Textured, Threads	
Unit-IV	Methods of Fabric construction	20%
	<ol style="list-style-type: none">1. Weaving-properties, uses and care2. Knitting- properties, uses and care3. Non-woven- properties, uses and care4. Other methods- laces, braiding, tufting etc.	

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**

Credit : 02

**Practical
Pd/Wk: 02**

Marks: 50

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 bazy, 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.

Theory	Content	Weightage
Unit-I	Design Fundamentals	30%
	<ol style="list-style-type: none">1. Objectives of Art & Interior Design.2. Types of Design: Structural & Decorative.3. Elements of Art: Space, Point, Line, Shape, Form, Texture, Light & Color.4. Principles of Art – Rhythm, Balance, Proportion, Emphasis, Unity	
Unit-II	Color And its application	35%
	<ol style="list-style-type: none">1. Importance of color and its role in Art2. Dimensions of color: hue, value and intensity3. Classification of color: primary, secondary, intermediate, tertiary and quaternary colors.4. Color harmonies: Related and contrast5. Effect of color	
Unit-III	Flower arrangement as an Art	15%
	<ol style="list-style-type: none">1. Importance and types2. Application of Principle of Art3. Equipments and accessories	
Unit-IV		
	<ol style="list-style-type: none">1. Lights and its use in interiors(Direct and indirect Light)2. Accessories in interior	20%

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.

Theory	Content	Weightage
Unit-I	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%
Unit-II	1. Adolescent age 2. Adulthood	10% 15%
Unit-III	1. Pregnancy-reasons for increased requirements. 2. Lactation- reasons for increased requirements.	10% 10%
Unit-IV	1. Infancy and preschoolers 2. Importance-Breast Feeding, ARF, Weaning 3. School going children	15% 10%
Unit-V	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**

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

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

Practical	Content
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.

**First Year B.Sc. (Home) II-Semester
PERSONAL EMPOWERMENT
Course Code: UHO2CHUD12**

Theory
Credit: T2 +P0 Pd /WK: 2+0 Marks: 100

Objectives:

- i) To make the students aware of their own potential.
- ii) To empower the students for self improvement and self enhancement

Unit	Content	Weightage
I		
	1. The challenge – understanding oneself and being aware of one’s strengths and weaknesses.	10%
	2. Personality development	20%
	i) Concept of positive self and negative self.	
	ii) Impact of personality.	
	iii) Coping strategies	
	iv) Factors influencing personality development	
II	Peer pressure	
	a)	20%
	i) Issues and management	
	ii) Group conformity	
	iii) Individualism as co existing aspects	
	iv) Changing relationships [hetero sexual]	
	v) Conflicts and stress	
	vi) Simple coping strategies	
	b) Adjustment and readjustment to changing needs and condition of contemporary society	15%
	i) Adjustment to technological changes	
	ii) Adjustment to social changes	
	iii) Changes in values	
	iv) Development of identity	
III	Some significant contemporary issues of concern	
	a) Gender issues	10%
	i) Inequities and discriminations	
	ii) Biases and stereo types	
	iii) Myths and facts	
	b) Substance abuse	10%
	i) Causes	
	ii) Types	
	iii) Remedial measures	

- | | | |
|----|--|-----|
| 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.

Theory	Content	Weightage
Unit –I MS-Powerpoint		20 %

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

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

(B) Giving life to a presentation

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

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**

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

Unit -I: Importance and Role of Youth Leadership 15%

- a) Meaning and types of leadership
- b) Qualities of good leaders; traits of leadership
- c) Importance and role of youth leadership

Unit -II: Life Competencies 35%

- a) Definition and importance of life competencies
- b) Communication
- c) Inter Personal
- d) Problem-solving and decision-making

Unit -III: Social Harmony and National Integration 25%

- a) Indian history and culture
- b) Role of youth in peace-building and conflict resolution
- c) Role of youth in Nation building

Unit -IV: Youth Development Programmes in India 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