

# Gujarat Technological University

**PROGRAMME : DIPLOMA IN HOME SCIENCE**  
**COURSE NAME : COMMUNICATION SKILLS-II**

## 1. RATIONALE:

The main purpose of designing this course of Communication Skills is to enable to read, comprehend, write and speak English and enrich him up to sufficient vocabulary and working knowledge of English to Communicate effective with others while working.

## 2. SCHEME OF TEACHING:

Topic No.	Name of Topic	Lecture Hour	Practical Hour	Total Hour
1	Passages for Comprehension	12	12	24
2	Grammar	16	16	32
	<b>Total</b>	<b>28</b>	<b>28</b>	56

## 3. CONTENT OUTLINE:

### 1. PASSAGE FOR COMPREHENSION.

Prescribed ("The study of English") (Macmillan Editorial board 1984)

- |    |                                |                           |
|----|--------------------------------|---------------------------|
| 1. | The king and the Doctors       | G.B. Shaw                 |
| 2. | The Happy Man                  | Bertrand Russell          |
| 3. | Gandhi's Dream of Modern India | L.Collins and D. Lapierre |
| 4. | Pandora                        | Adapted                   |

### 2 GRAMMER:

1. Pronoun
2. Comparative degree
3. Prepositional verb (as per text)
4. Adverb and adverb of frequency
5. Suffix (as per text)

## 4. LABORATORY EXPERIENCE:

1. Pronoun
2. Comparative degree
3. Prepositional verb (as per text)
4. Adverb and adverb of frequency
5. Suffix (as per text)

## 5. TERM WORK:

(Language laboratory)

It will consist of at least one exercise on following topics.

1. Application for Job
2. Letters of inquiries
3. Letters of Complaints and adjustment
4. Letters of orders

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5. Letters of Quatations and offers
6. Letters to Bank requesting for loans
7. Letters to Government / Semi. Government offices.

### **6. REFERENCES;**

- |                         |                                |  |
|-------------------------|--------------------------------|--|
| 1. The study of English | Maemillan Editorial Board 1984 | S.G.Wasani for Maemillan India Ltd. & Printed by T.K. Sengupta at Maemillan India Press. Mardras-6000 041. |
|-------------------------|--------------------------------|--|

# Gujarat Technological University

**COURSE NAME : CHILDREN'S CLOTHING**

## 1. RATIONALE:

The curriculum of this course is prepare to make design if garment for children of different age. It also covers selection of fabric and designs to suit the available textiles

## 2. SCHEME OF TEACHING:

Topic No.	Name of Topic	Lecture Hour	Practical Hour	Total Hour
1.	Effect of Clothing	03	-	03
2	Infants	06	21	27
3.	Pre-School Age & Creeper Age	06	21	27
4.	Elementary School Children Clothing	08	21	29
5.	Clothing Accessories	05	21	26
	<b>Total</b>	<b>28</b>	<b>84</b>	112

## 3. OBJECTIVES:

Enable the situation to:

1. Develop skills in clothing construction.
2. Learn to construct children's wear.
3. Acquire knowledge about selection of material, decoration.
4. Develop an understanding of wardrobe planning.

## 4. CONTENT OUTLINE:

### 1. EFFECT OF CLOTHING:

- 1.1 Clothing and the child.
- 1.2 Psychological effect of clothing in the child.
- 1.3 Effect of clothes on the child's care and development

### 2. INFANTS

- 2.1 Standards for infants clothing.
- 2.2 Safety and health.
- 2.3 Essential in the layette.
- 2.4 suggested layette.

### 3. PRE-SCHOOL AGE & CREEPER AGE :

- 3.1 Factors in selecting pre school children clothing.
- 3.2 Functional design for the creeper age.
- 3.3 Garments for the creeper age.
- 3.4 Designing pre-school
- 3.5 Self help garment.
- 3.6 Made over garment
- 3.7 Physical changes during pre school age
- 3.8 Purchasing pre school children's wardrobe

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## 4. ELEMENTARY SCHOOL CHILDREN CLOTHING

- 4.1 Physical growth & development
- 4.2 Children preference likes and dislikes
- 4.3 Growth allowances
- 4.4 Desirable features in children clothing
- 4.5 Young girls and boys sizes
- 4.6 Wardrobe for elementary school child.

## 5. CLOTHING ACCESSORIES

- 1.4 Belt.
- 1.5 Purse.
- 1.6 Hat

## 5. LABORATORY EXPERIENCES :

- 6.1 Adapting cutting and stitching of following garments.  
Bib, Bonnet, Diaper, Baby frock, Baby layette for infant, Bush shirt, Pent
- 6.2 Designing various self help garments
- 6.3 Designing baby layette for creeper age .

## 6. TERM WORK:

- 1. Preparation of Journal recorded practical work done.
- 2. Preparation of samples in practical
- 3. Preparation of designing sheets of various garments

## 7. REFERENCES;

- |    |  |   |
|----|--|---|
| 1. | Mc Calls sewing color                            | The Hamlya Publishing Group Ltd. London.                            |
| 2. | Clothing for children, Thompson M.H. & Rea, L.E. | John wiley & Sons, Inc. New York, chanpman & Hall Ltd. London 1949. |
| 3. | A manual for Children Clothing                   | Savitri Pandit  |
| 4. | Making clothes for your Thmous, H.N.             | U.S.A. abernneet Co. Inc.Illinois.                                  |

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**COURSE NAME : ELEMENTARY NUTRITION**

## **1. RATIONALE:**

The course enables the student to gain knowledge an importance of food, selection and learn various techniques of cooking. Nutrition is the basic need to maintain good health and the students learns about the importance of various food, nutrients and their requirement in different conditions.

## **4. SCHEME OF TEACHING:**

Topic No.	Name of Topic	Lecture Hour	Practical Hour	Total Hour
1.	Nutrients	14	14	28
2.	Source Of Vitamins	14	14	28
3.	Effects Of Nutrients	14	14	28
4.	Food Groups	14	14	28
	<b>Total</b>	<b>56</b>	<b>56</b>	<b>112</b>

## **4. OBJECTIVES:**

To enable students to know about food and nutrients.

## **5. CONTENT OUTLINE:**

### **1. NUTRIENTS**

- 1.1 Introduction to nutrition and nutrients
- 1.2 Requirement for child and adult.

### **2. TYPES OF NUTRIENTS**

- 2.1 Function of Nutrients
- 2.2 Sources of Nutrients
  - 2.2.1 Protein
  - 2.2.2 CHO
  - 2.2.3 Minerals
  - 2.2.4 Vitamins: A,B,C,E,F & K
  - 2.2.5 Fat

### **3. EFFECTS OF NUTRIENTS**

- 3.1 Energy source
  - 3.1.1 Physiological full value of food
- 3.2 Relation of Nutrition to health
- 3.3 Deficiencies of Nutrients
  - 3.3.1 Diseases due to deficiencies
  - 3.3.2 Preventive measures.

### **4 FOOD GROUPS :**

- 4.1 Daily requirements of food group for adult.

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## 5. LABORATORY EXPERIENCES :

Planning and recipes for

1. Protein rich recipes.
2. Vitamin rich recipes.
3. CHO rich recipes.
4. Calcium rich recipes.
5. Iron rich recipes.
6. Minerals rich recipes.
7. Recapped food fortification.
8. Plan and calculate Nutrient value with the help of computer.

## 6. TERM WORK:

Preparation of file for laboratory experiences

## 7. REFERENCES;

- |    |  |  |  |
|----|--|--|--|
| 1. | Applied nutrition  | R. Rajlaxmi.                                     | Mohan Primluin Oxford & IBH. Publishing Co.          |
| 2. | Human Nutrition  | Maxim E Macdivitt & Sumar Rajgagata              | Presenstice hall of India Mudamb Printed new delhi.  |
| 3. | Nutrient value of Indian foods and Planning of Satisfactory Diet | W.R.Avk Royal                                    | Indian council of medical Medical research New Delhi |
| 4. | Your food  | M.R. Mansi                                       | Pub. Tat Sons Limited & Padma Pub. LTD Bombay        |
| 5. | Nutritive value of Indian foods                                  | C.Gopalan, B.V. Ramshtri<br>S.C. Balasubrmianiam |  |

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**COURSE NAME : SPACE DESIGNING**

## **1. RATIONALE:**

The students will be able to get knowledge of layout plans understand various plans and building bye-laws.

## **2. SCHEME OF TEACHING:**

Topic No.	Name of Topic	Lecture Hour	Practical Hour	Total Hour
1.	Introduction	4	-	4
2.	Principal of building planning	8	10	18
3.	Building Drawing	6	10	16
4.	Building bye – laws for residential building.(IS – 1256)	5	-	5
5.	Estimating & Costing	5	8	13
	<b>Total</b>	<b>28</b>	<b>28</b>	<b>56</b>

## **3. OBJECTIVES:**

3. To interpret building drawing.
4. To acquire basic knowledge of principles involved in planning residential Building.
5. To learn simple technique of scale drawing and flat rendering.
6. To estimate rough coast of building.

## **4. CONTENT OUTLINE:**

### **1 Introduction**

#### 1.1.0 Types of building

- 1.1.1 Residential building
- 1.1.2 Public building
- 1.1.3 Educational building
- 1.1.4 Commercial building

#### 1.1.5 Industrial building

#### 1.2.0 Introduction to building drawings.

#### 1.3.0 Types of Residential building.

- 1.3.1 Bungalow
- 1.3.2 Duplex
- 1.3.3 Raw house
- 1.3.4 Farmhouse
- 1.3.5 Flat
- 1.3.6 Apartment
- 1.3.7 Housing Complex

#### 1.4.0 Advantages and disadvantages of all types of residential building.

## **5. Principal of building planning.**

### 5.1. General principles of planning for residential planning.

- 5.1.1 Aspect
- 5.1.2 Prospect
- 5.1.3 Furniture requirement
- 5.1.4 Roominess

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- 5.1.5 Groupings
- 5.1.6 Sanitation
- 5.1.7 Circulation
- 5.1.8 Ventilation
- 5.1.9 Economy
- 5.1.10 Flexibility
- 5.1.11 Orientation
- 5.2. Principles of planning & designing Single & Two stored residential building
- 5.3. Principles of planning for Public buildings.
- 5.4. Principles of planning for Educational buildings.
- 5.5. Principles of planning for Commercial buildings.
- 5.6. Guidelines for planning residential building on :
  - 5.6.1 Regular & irregular shape of plots
  - 5.6.2 Sloping ground
  - 5.6.3 Irregular grounds
- 6. **Building Drawing**
  - 6.1. Sketches
  - 6.2. Line plan
  - 6.3. Detailed plan
  - 6.4. Site plan
  - 6.5. Elevation
  - 6.6. Section
  - 6.7. Service plan

Explain importance and purpose of above each type of drawing.
- 7. **Building bye – laws for residential building.(IS – 1256)**
  - 7.1. Plot area & build-up area
  - 7.2. Size of rooms
  - 7.3. Heights
  - 7.4. Margin
  - 7.5. Passage
  - 7.6. Ventilation
  - 7.7. Circulation
  - 7.8. Open space
  - 7.9. Water supply & sanitary
  - 7.10. Electrification
- 8. **Estimating & Costing**
  - 8.1. **Preliminary / rough estimate Methods :**
    - 8.1.1 Unit rate estimate
    - 8.1.2 Plinth area estimate
    - 8.1.3 Cubic rate estimate
  - 8.2. **Various units for estimation of different types of buildings.**
- 9. **LABORATORY EXPERIENCES:**
  - 1. Prepare plan / sketch of given residential buildings for given requirements.
  - 2. Prepare plan / sketch of building components.
  - 3. Prepare service plan / sketch.
  - 4. Survey of various families to know activity pattern and space requirement.
  - 5. Market survey of building materials available and cost.
  - 6. Visit to house under construction to know the details and preparing report.



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7. Exercises on interpretation of building drawing.
8. Exercises on estimating preliminary / rough cost of building

### **10. TERM WORK:**

Students have to draw plan on computer.

1. Prepare a scrap book of various building materials used for construction and finishing.
2. Collection of various building drawings (2 bed room, 3 bed room and Bungalows).
3. Prepare a model of house.

### **8. REFERENCES:**

- |    |  |                |                              |
|----|--|----------------|------------------------------|
| 1. | The house –its plans and uses<br>Lippincott 1976.      | Agan T.        |                              |
| 2. | Build your Own Homes                                   | Deshpande R.S. | United Book Corp.<br>1981.   |
| 3. | Modern Ideal Homes for India                           | Deshpande R.S. | United Book Corp.<br>1981.   |
| 4. | Homes for middle class                                 | Deshpande R.S. | U.BCorp.1981                 |
| 5. | The housing problems in India                          | Punekar D.     | 1960                         |
| 6. | Introduction to Art & Design                           | Pranav Bhatt   | Deep Prakashan<br>V.V Nagar  |
| 7. | Year Book of India                                     |                |                              |
| 8. | Building drawing                                       |                | Shah, Kale<br>& Patki        |
| 9. | Estimating & Costing<br>(Civil Engineering Structures) |                | Datta Or Any<br>other author |

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## COURSE NAME: COMPUTER BASIC (AS COMEM. ART)

### 1. RATIONALE:

Due to the fast growing impact of computer in commercial art field all students should get through knowledge about computers. Today computer is involved fully in design and commercial art field.

Computer software are capable to give the best result in design field. So students should have thorough knowledge of operating and handling of computers.

### 2. SCHEME OF TEACHING:

Topic No.	Name of Topic	No. Of Hours		
		Lect.	Pract.	Total
1	Introduction to Computers.	4	6	10
2	Memory & its types, measurement of memory	4	6	10
3	Operating System.	2	2	4
4	Commands for operating systems.	2	2	4
5	Windows 3.1	4	6	10
6	Win-95, Win-98 & Win-2001	4	12	16
7	MS Office	8	22	30
	Total	28	56	84

### 3.OBJECTIVES:

1. To give knowledge of design through computer.
2. Use of computer in design and commercial art field.
3. To give training of latest software programmes related to advertising field art commercial art field.

### 4.TOPICS AND SUB TPICS:

#### Topic.1.0 INTRODUCTION TO COMPUTERS:

- 1.1 Introduction to computer and characteristic of computers.
- 1.2 Classification of computer system. Input & Output devices.

#### Topic.2.0 MEMORY AND ITS TYPES:

- 2.1 Internal & External memories.
- 2.2 Hardware & software.

#### Topic 3.0 OPERATING SYSTEMS:

- 3.1 Necessity and Introduction.
- 3.2 Working system.

#### Topic.4.0 COMMANDS:

- 4.1 Internal Commands
- 4.2 External Commands

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## **Topic.5.0 WIN 3.1:**

- 5.1 Introduction to WIN 3.1 & Programme Manager.
- 5.2 Accessories & other menus.

## **Topic.6.0 WIN-95, WIN-98 & WIN-2001:**

- 6.1 Introduction to win –95 & start up of menus.
- 6.2 Introduction to win-98 & start up of menus.

## **Topic.7.0 MS OFFICE:**

- 7.1 Introduction to MS Office.
- 7.2 Text input and their effects in MS Office.

## **5.LABORATORY EXPERIENCES:**

Sheets to be prepared as under for Term Work.

1. Introduction to management of files.
2. Use of commands.
3. Understand the DOS environment & windows environment difference.
4. Working system of windows 3.1
5. Working system of win-95.
6. Working system of win-98.
7. Win – 2001.
8. Data entry and editing in MS Office.

## **6.REFERENCES:**

- |     |                               |  |
|-----|-------------------------------|--|
| 1.  | D.T.P.                        | BPB Publications                                 |
| 2.  | Corel draw 8                  | Venus Publications<br>Publications,Ahmedabad     |
| 3.  | Pagemaker 5                   | BPB Publications                                 |
| 4.  | Page maker 6.5                | B.P.B.Publications                               |
| 5.  | Win – 3.1                     | B.P.B.Publications                               |
| 6.  | Win – 95                      | B.P.B.Publications                               |
| 7.  | Win – 98 & Win - 2001         | vinus publications, Ahmedabad<br>IN GUJARATI :   |
| 8.  | Photo shop                    | Techmedia Publication                            |
| 9.  | Corel draw 9                  | Bhavesh Chauhan<br>Venus Pub.,Ahmedabad          |
|     | (or higher version Ketna Shah |  |
| 10. | Page Maker 6.5                | Sonal Shah<br>Computer JagatPrakeshan, Ahmedabad |
| 11. | DTP with Photoshop            | Bhavesh Chauhan Venus Pub.,<br>Ahmedabad         |
|     | (higher version)              | Ketna Shah IN ENGLISH                            |
| 12. | Windows 98                    | Cowart BPB Pub.,NewDelhi                         |
|     | (Higher version)              |  |
| 13. | Coreldraw 9                   | Altman “   |
|     | (Higher version)              |  |
| 14. | Pagemaker 6.5                 | “ “  |
|     | (Higher version)              |  |
| 15. | Photoshop 6                   | Romaniello “                                     |
| 16. | Windows 2000                  |  |
|     | (Higher version)              | Sybex “  |