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
	Total	**28**	**28**	56

3.   CONTENT OUTLINE:

1.   PASSAGE FOR COMPREHENSION.

Prescribed ("The study of Engilsh") (Maemillan 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

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.

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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
	Total	**28**	**84**	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 c4reeper 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

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   Savitri Pandit
        Clothing
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
	Total	**56**	**56**	**112**

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.

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 S.C. Balasubrmaniam	

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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
	Total	**28**	**28**	**56**

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.
    5.1.0   General principles of planning for residential planning.
        5.1.1   Aspect
        5.1.2   Prospect
        5.1.3   Furniture requirement
        5.1.4   Roominess

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
5.2.0   Principals of planning & designing Single & Two stored residential building
5.3.0   Principles of planning for Public buildings.
5.4.0   Principles of planning for Educational buildings.
5.5.0   Principles of planning for Commercial buildings.
5.6.0   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
6.1.0 Sketches
6.2.0 Line plan
6.3.0 Detailed plan
6.4.0 Site plan
6.5.0 Elevation
6.6.0 Section
67.0 Service plan
    Explain importance and purpose of above each type of drawing.

7. Building bye – laws for residential building.(IS – 1256)
7.1.0   Plot area & build-up area
7.2.0   Size of rooms
7.3.0   Heights
7.4.0   Margin
7.5.0   Passage
7.6.0   Ventilation
7.7.0   Circulation
7.8.0   Open space
7.9.0   Water supply & sanitary
7.10.0 Electrification

8. Estimating & Costing
8.1.0 Preliminary / rough estimate Methods :
    8.1.1   Unit rate estimate
    8.1.2   Plinth area estimate
    8.1.3   Cubic rate estimate

8.2.0 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.

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   Agan T.
        Lippincott 1976.
2.   Build your Own Homes   Deshpande R.S.   United Book Corp.
                                                                  1981.
3.   Modern Ideal Homes for India   Deshpande R.S.   United Book Corp.
                                                                  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
                                                                   V.V Nagar
7.   Year Book of India
8.   Building drawing   Shah, Kale
                                                                    & Patki
9.   Estimating & Costing   Datta Or Any
        (Civil Engineering Structures)   other author

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COURSE NAME : INTRODUCTION TO COMPUTER

1. RATIONALE:

The integration of information technology in day-to-day life has emerged as one of the primary bases for routine work performance. The students of this stream are expected to contribute their routine performance in personal as well social life. This courses will certainly helpful to them to perform their day-to-day computer related tasks.

2. SCHEME OF TEACHING:

Topic No.	Name of Topic	Lecture Hour	Practical Hour	Total Hour
1.	Introduction to computer systems	8	4	12
2.	Operating systems	4	6	10
3.	Word processing software	8	24	32
4.	Spread sheet software	8	22	30
	Total	**28**	**56**	**84**

3. OBJECTIVES:

The student should be able to:
1. Understand computer system & operating system.
2. Use word processing & spread sheet software.
3. Use computer peripherals like printer.

4. CONTENT OUTLINE:

1. INTRODUCTION TO COMPUTER SYSTEMS:

1.1 Definitions of computer, computer systems, digital system, analog system.
1.2 Block diagram of computer system.
1.3 Functions and working of each part in block diagram.
1.4 Types, of computers.
1.5 Types, working & uses of various input and output devices.
1.6 Concept, meaning & differences of hardware and software.
1.7 Meaning & definitions of various terms. (Viz. RAM, VRAM, ROM, EPROM, bit, byte)
1.8 Concept, meaning & working of floppy disk, CD zip drive, MP3.
1.9 Types of files (like .bat, .sys, .exe, .txt, .doc, .bmp, .dwg) & their uses.

2. OPERATING SYSTEM:

2.1 Introduction
2.2 DOS – Introduction, features and important commands like CD, MD, RD, COPY, DIR, DELETE, rename, etc., with options.
2.3 WINDOWS
    2.3.1 Introduction
    2.3.2 Title bar, menu bar, scroll bar, status bar, tool bar,

maximum-minimum-close buttons.

      2.3.3   User interface – desktop, task bar, control panel, drop-down menu.

      2.3.4   Window accessories & their uses – system tools calculator, calendar, note pad, word pad, paint.

      2.3.5   Feature of windows – shortcuts, explore, recycle bin, folders.

  2.4   Feature and uses of other operating systems like UNIX, LINUX, Windows and other in current trend.

3. WORD PROCESSING SOFTWARE:

3.1   Introduction
3.2   Creating new document using file menu options like new, open, save, save as, page set up.
3.3   Font settings
3.4   Formatting using format menu
3.5   Editing text (Viz. cut, copy, paste, undo,)
3.6   Use of table and table format
3.7   Editing tables
3.8   Find, replace, spell check
3.9   Inserting image, picture, object, file, back ground
3.10   Mail merge
3.11   Print
3.12   Additional features

4. SPREAD SHEET SOFTWARE:

4.1   Introduction
4.2   Creating new work sheet using file menu options like new, open, save, save as, page set up.
4.3   Cell data entry (number, text, formula)
4.4   Editing work sheet (like cut, copy, paste, insert, delete raw & column)
4.5   Formatting & font settings
4.6   Formatting with formula (different types of arithmetic / static functions)
4.7   Use of charts (line, bar, pie)
4.8   Inserting image, picture, objects, files, back ground
4.9   Print
4.10   Additional features.

5. LABORATORY EXPERIENCES:

1.	Demonstration of computer system.	2 Hrs.
2.	Demonstration & working of computer peripherals like key board, Mouse, floppy disks, CD, printer	2 Hrs.
3.	Demonstration / use of DOS commands.	2 Hrs.
4.	Use of start menu, explorer, desktop.	2 Hrs.
5.	Creating shortcut, folder, icon	2 Hrs.
6.	Creating and editing simple text file with print.	2 Hrs.
7.	Creating and editing document file using tables, with print.	4 Hrs.
8.	Creating editing document using formatting (including inserting file Image, picture, object) with print.	12 Hrs.
9.	Mail merge with print.	6 Hrs.
10.	Creating and editing simple work sheet with print.	6 Hrs.
11.	Creating and editing work sheet using formula (functions)	

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with print.		8 Hrs.
12. Creating and editing work sheet using chart, with print.		8 Hrs.

7.   REFERENCES;

Fundamentals of computers	Raja raman	
Computers to day	Donalds H. Sanders	MGH
Mastering windows	Cowart	BPB
Learn windows in a day	Fuller	BPB
10 Minute guide to window	Calapria Burke	PHI
10 Minute guide to MS Word	Aitken	PHI
10 Minute guide to MS Excel	Fulton	PHI
Mastering MS Word	Mans field	BPB
Mastering MS Excel	Martin	BPB