

CURRICULUM FOR TWO YEAR
(FOUR SEMESTER)
DIPLOMA COURSE IN

=====
: HOME SCIENCE :
: Effective from Session :
=====

=====
UNDER DEVELOPMENT
=====

=====
:Semester System :
=====

Prepared By

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: Curriculum Development Cell :
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INSTITUTE OF RESEARCH DEVELOPMENT
& TRAINING, U.P., KANPUR

APPROVED BY

=====
: BOARD OF TECHNICAL EDUCATION :
: U.P. LUCKNOW, :
:CORRECTED AS SYLLABUS COMMITTEE OF:
: B.T.E. MEETING HELD ON 04.05.2017:
=====

STUDY & EVALUATION SCHEME FOR
TWO YEAR (FOUR SEMESTER) DIPLOMA COURSE IN HOME SCIENCE
(Effective from the session)

I Semester

| Curriculum | | | | | | Scheme of Examination | | | | | | | | | |
|---|-----|----|-----|------|-----|-----------------------------------|-------------|-------|-------|-------------|-------|-------|-------|-------|-----|
| Periods Per Week | | | | | | S U B J E C T | Theory | | | Practical | | | Grand | | |
| Le | Tut | Dr | Lab | Work | Tot | | Examination | Sess. | Total | Examination | Sess. | Total | | Total | |
| ct | ori | g | | Shop | al | Dur. | Marks | Marks | Marks | Dur. | Marks | Marks | Marks | | |
| ur | al | | | | | | | | | | | | | | |
| e. | | | | | | | | | | | | | | | |
| 5 | - | - | 3 | -- | 8 | 1.1 Professional Communication | 2.5 | 50 | 20 | 70 | 3 | 20 | 10 | 30 | 100 |
| 4 | - | - | 14 | -- | 18 | 1.2 Fundamentals of Art. & Design | 2.5 | 50 | 20 | 70 | 4 | 60 | 30 | 90 | 160 |
| 8 | - | - | 10 | -- | 18 | 1.3 Food And Nutrition | 2.5 | 50 | 20 | 70 | 4 | 60 | 30 | 90 | 160 |
| 17 | - | - | 27 | -- | 44 | <-----TOTAL-----> | -- | 150 | 60 | 210 | -- | 140 | 70 | 210 | 420 |
| Games/NCC/Social and Cultural Activity + Discipline (15 + 10) | | | | | | | | | | | | | 25 | | |
| | | | | | | | | | | | | | 445 | | |

II Semester

| | | | | | | | | | | | | | | | |
|---|---|---|----|----|----|---------------------------------------|-----|-----|----|-----|----|-----|-----|-----|-----|
| 4 | - | - | 6 | -- | 10 | 2.1 Physiology & First Aid. | 2.5 | 50 | 20 | 70 | 3 | 55 | 25 | 80 | 150 |
| 7 | - | - | 7 | -- | 14 | 2.2 Child Development | 2.5 | 50 | 20 | 70 | 3 | 60 | 30 | 90 | 160 |
| 6 | - | - | 12 | -- | 18 | 2.3 Fundamental of Textile & Clothing | 2.5 | 50 | 20 | 70 | 4 | 60 | 30 | 90 | 160 |
| 3 | - | - | 3 | -- | 6 | 2.4 Extension Education | 2.5 | 50 | 20 | 70 | 3 | 60 | 30 | 90 | 160 |
| 20 | - | - | 28 | -- | 48 | <-----TOTAL-----> | -- | 200 | 80 | 280 | -- | 235 | 115 | 350 | 630 |
| Games/NCC/Social and Cultural Activity + Discipline (15 + 10) | | | | | | | | | | | | | 25 | | |
| | | | | | | | | | | | | | 655 | | |

- NOTE: (i) Each period will be of 50 minutes duration.
(ii) Each session will be of 16 weeks.
(iii) Effective teaching will be atleast 14 weeks.
(iv) Remaining periods will be utilised for revision etc.
(v) 4 weeks structured & supervised, branch specific, task oriented industrial/extension Edu. to be organised during summer vacation. Students will submit a report .There will be 50 marks for this exposure .These marks will be awarded by project examiner in the IV Semester (Examination marks: 30, Sess. marks: 20).
(vi) Field visits and extension lectures are to be organized and managed well in advance at institute level as per need.

STUDY & EVALUATION SCHEME
for
TWO YEAR (FOUR SEMESTER) DIPLOMA COURSE IN HOME SCIENCE
(Effective from the session)

III Semester

| Curriculum | | | | | | Scheme of Examination | | | | | | | | | |
|---|----------|--------|------|-----------|-------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-----|
| Periods Per Week | | | | | | S U B J E C T | Theory | | | Practical | | | Grand Total | | |
| Lecture | Tutorial | Dr. g. | Lab. | Work Shop | Total | | Examination | Sess. Marks | Total Marks | Examination | Sess. Marks | Total Marks | | | |
| 2 | | | 6 | | 8 | 3.1 Introduction To Computer (Any Two Groups Should be chosen From Below Four Groups) | - | - | - | - | 3 | 60 | 30 | 90 | 90 |
| | | | | | | Group-I | | | | | | | | | |
| 8 | - | - | 10 | -- | 18 | 3.2 Home Management Group-II | 2.5 | 50 | 20 | 70 | 3 | 60 | 30 | 90 | 160 |
| 8 | - | - | 10 | -- | 18 | 3.3 Diet Planning & Therapy Group-III | 2.5 | 50 | 20 | 70 | 4 | 60 | 30 | 90 | 160 |
| 8 | - | - | 10 | -- | 18 | 3.4 Early Childhood Education & Management Group-IV | 2.5 | 50 | 20 | 70 | 3 | 60 | 30 | 90 | 160 |
| 8 | - | - | 10 | -- | 18 | 2.10 Textile Design | 2.5 | 50 | 20 | 70 | 4 | 60 | 30 | 90 | 160 |
| 18 | - | - | 26 | - | 44 | <-----TOTAL-----> | -- | 100 | 40 | 140 | -- | 180 | 90 | 270 | 410 |
| Games/NCC/Social and Cultural Activity + Discipline (15 + 10) | | | | | | | | | | | | | | 25 | |
| Total: | | | | | | | | | | | | | | 435 | |

IV Semester

| | | | | | | | | | | | | | | | |
|---|---|---|----|----|----|---|-----|-----|----|-----|------|-----|-----|-----|-----|
| 4 | - | - | - | - | 4 | 4.1 Environmental Education(*) And Disaster Management | 2.5 | 50 | -- | -- | -- | -- | -- | -- | -- |
| | | | | | 12 | 4.2 I. Project II. Field Exposure (Any Two Groups Should be chosen From Below Four Groups) | - | - | - | - | viva | 80 | 40 | 120 | 120 |
| | | | | | | Group-I | | | | | Viva | 30 | 20 | 50 | 50 |
| 6 | - | - | 10 | -- | 16 | 4.3 Interior Decoration and Kitchen Management Group-II | 2.5 | 50 | 20 | 70 | 4 | 60 | 30 | 90 | 160 |
| 6 | - | - | 10 | -- | 16 | 4.4 Institutional Food Service Management Group-III | 2.5 | 50 | 20 | 70 | 3 | 60 | 30 | 90 | 160 |
| 6 | - | - | 10 | -- | 16 | 4.5 Entrepreneurship in child Care services Group-IV | 2.5 | 50 | 20 | 70 | 3 | 60 | 30 | 90 | 160 |
| 6 | - | - | 10 | -- | 16 | 4.6 Costume Design | 2.5 | 50 | 20 | 70 | 4 | 60 | 30 | 90 | 160 |
| 16 | - | - | 20 | 12 | 48 | <-----TOTAL-----> | -- | 100 | 40 | 140 | -- | 230 | 120 | 350 | 490 |
| Games/NCC/Social and Cultural Activity + Discipline (15 + 10) | | | | | | | | | | | | | | 25 | |
| Total: | | | | | | | | | | | | | | 515 | |
| 50% Carry Over of I & II Sem. | | | | | | | | | | | | | | 550 | |
| 100% Carry Over of III Sem. | | | | | | | | | | | | | | 950 | |

- NOTE: (i) Each period will be of 50 minutes duration.
(ii) Each session will be of 16 weeks.
(iii) Effective teaching will be atleast 14 weeks.
(iv) Remaining period will be utilized for revision etc.
(v) Field visits and extension lectures are to be organized and managed well in advance at institute level as per need.
(vi) (*) It is compulsory to appear & to pass in examination, But marks will not be included for division and percentage of obtained marks.
(vii) From the above four groups any two groups should be chosen by the students.

| CONTENTS | | |
|--------------|--|----------|
| S.NO. | PARTICULARS | PAGE NO. |
| | Study and Evaluation Scheme. | |
| | Main Features of the Curriculum. | 1 |
| | List of Experts. | 2 |
| | Need Analysis. | 3 |
| | Profile Development. | 4 |
| I | Job Potential. | 5-6 |
| II | Job Activites. | 7 |
| III | Activity Analysis. | 8-9 |
| IV | Curriculum Objectives. | 10 |
| V | Deriving Curriculum Areas From Course Objectives. | 11 |
| VI | Detailed Course Contents. | |
| I Semester | | |
| 1.1 | Professional Communication | 12-16 |
| 1.2 | Fundamentals of Art & Design | 17-18 |
| 1.3 | Food & Nutrition | 19 |
| II Semester | | |
| 2.1 | Physiology and First Aid. | 20-22 |
| 2.2 | Child Development | 23-24 |
| 2.3 | Fundamental of Textile & Clothing | 25-27 |
| 2.4 | Extension Education | 28 |
| III Semester | | |
| 3.1 | Introduction To Computer Group-I | 29-31 |
| 3.2 | Home Management Group-II | 32-33 |
| 3.3 | Diet Therapy & Planning Group-III | 34 |
| 3.4 | Early Childhood Education & Management Group-IV | 35 |
| 3.5 | Textile Design | 36 |
| IV Semester | | |
| 4.1 | Environmental Education & Disaster Management | 37-38 |
| 4.2 | Project Group-I | 39 |
| 4.3 | Interior Decoration & Kitchen Management Group-II | 40-41 |
| 4.4 | Institutional Food Service Management Group-III | 42 |
| 4.5 | Entreprenurship In Child Care Service Group-IV | 43 |
| 4.6 | Costumen Design | 44 |
| VII. | Staff Structure & Qualification | 45-46 |
| VIII. | Space Requirement. | 47-48 |
| IX. | List of Equipment. | 49-54 |
| X. | Learning Resource Materials | 55 |
| XI. | Annexure -I Field Exposure | 56 |
| XII | Annexure - II Questionnaire. | 57-59 |

Main Features of The Curriculum

| | | |
|------------------------|----|-----------------------------------|
| Title of The Course | :- | Diploma in Home Science. |
| Duration of The Course | :- | Two Years(Four Semester) |
| Pattern of The Course | :- | Semester System |
| Intake of The Course | :- | 60 |
| Type of The Course | :- | Full Time Institutional. |
| Entry Qualification | :- | Passed High School with 35% Marks |
| Mode of Admission | :- | Through Joint Exterance Exam. |

LIST OF EXPERTS (ANNUAL SYSTEM)

List of experts who contributed in the revision of Home science curriculum on dated 15.12.2014

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2. Dr. Kusum Agarwal
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3. Dr. Mrs. Ruchi Mittal
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4. Dr. Mukta Garg
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6. Dr. Mrs. Seema Sonker
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7. Smt. Ranju Kushwaha
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8. Shri G. N. Singh
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9. Shri G. N. Singh
Assistant Professor

I.R.D.T., Kanpur

NEED ANALYSIS:

Food, House and Clothing are the three essential requirements of man kind. These essential requirements are associated with the house wives who are responsible of these three. They are supposed to keep the house fit and fully decorated, keep the clothing according to need and make food which suits the family. Keeping in view these parameters the curriculum for two years diploma course in Home Science was basically designed to develop knowledge and skill component in girls for domestic applications.

Diploma holders in Home Science may also be exposed with the world of work by sharing responsibilities in the field of Bakery and Confectionery, Interior decoration, Family planning programmes, Laundry and Textile, Child care and Child development, Dress designing and Computers. Many organisations are working in the above fields seeking middle level skilled manpower to take various positions to assist in their working. In metropolitan cities, where there are sufficient working class women, the diploma holders in Home Science may start enterprenural activities by running mother care centres and children homes. They can also run cafeteria and mess in the girls/working class women hostel and girls institutions.

The need for revision of curriculum was felt to equip the diploma holders in Home Science making use of latest technology in the field of Manufacturing, Production, Preservation, Packaging, Marketing, Advertising, Education Enterprenural, Social, Cultural, Child Development, Health and Hygiene etc.

PROFILE DEVELOPMENT:

The job of revision of curriculum in Home Science was under taken by the Institute of Research Development and Training U.P. Kanpur to make it more job oriented and need based. Changes and developments on account of technological up gradation in machine and material have been taken into consideration in the revision of curriculum. The input qualification for the course is 10+ with an aptitude test as before.

Following steps were taken in the revision of curriculum..

1. An instrument for getting information about job potential/job opportunities man power assessment both present and projected was designed and sent to various Home Science/Personnels/Teaching institutions.
2. The feed back received was not satisfactory so feed back was collected through mutual interaction with entrepreneurs, experts of the field and business organisations.
3. The feed back was analysed in a work shop and course outline was formulated.
4. The detailed course contents were developed in a workshop by mutual interaction among experts of the field and industry.
5. Effort has been made to increase placement potential by introducing new subject areas in the curriculum.

The following logical sequence has been adopted in the revision of curriculum.

- Listing job potential and activities done in various jobs.
- Analysing activities into knowledge and skill.
- Determining the course objectives.
- Deriving subjects of study from course objectives.
- Horizontal and vertical organisation of curriculum.
- Detailing of course content for each subject.
- Formulation of study and evaluation scheme.
- Determination of resource input in terms of human resource (Staff requirement), physical resources (space, equipment) and information resources (Books, Magazines Video films, slides etc.)

It is hoped that this curriculum if implemented in right spirit in polytechnics will produce competent and right type of middle level man power for Home Science and related field.

I. JOB POTENTIAL:

Before taking up the assignment for revision of curriculum a preliminary survey regarding job potential and man power assesment was conducted. It was revealed that diploma pass outs may have opportunities in the following fields.

- Department of Education.
- Nursury Schools.
- Primary Health Centres.
- Angan Bari.
- Enterpreneur.
 - I. Hobby Course on Cookery, Bakery, Handicrafts, Preservation (Achar, Murabba, Jelly, Jaim etc).
 - II. Drawing & Painting Courses.
 - III. Cutting & Tailoring Courses.
 - IV. Manufacture of House Hold Articles (Flower - Pot, Decorative Articles).
 - V. Interior Decoration Courses.
- Orphanage.
- S. O. S. Schools.
- Children Homes.
- Lab Assistants.
- Woman Prisons.
- Sick Rooms.
- Mentally Retarded Children School.
- Deaf And Dumb School.
- Handicapped and Blind Care Centre.
- Artificial Limbs Manufactureing Companies.
- Occupational Therapy.
- Physio Therapy.

- Garment Manufacturing Industries.
- Mess Contractor Girls Hostel.

More over change in life style due to post marriage reasons will enhance their family standard and quality of living in the educated society.

ASSESSMENT OF JOB POTENTIAL:

A few years back job opportunities in the field of home science was very limited. Previously the objective of the course was to prepare the girls to become successful house wives. On account of social changes in the living standards of people the house wives have also started to contribute to their counterparts to enhance family income with exposure in the following fields.

Due to increase in the working class ladies in the metropolitan cities child care centres and children homes were started and managed by diploma pass out ladies.

In various girl institutions cafeteria and mess were managed and run by diploma pass out.

The diploma pass outs are also running part time courses in cookery and bakery, confectionery, interior decoration, drawing and painting, knitting and tailoring, dress designing, child psychology and mother craft, laundry and textile, fabric selection, food and nutrition etc..

Some dynamic pass outs started their own entrepreneurial units like preparation of Jams, Jelly, Chutani, Achar, Murabba, Papad, Potato chips, Fast foods and Fashion accessories manufacture.

II. JOB ACTIVITIES

The diploma passouts in Home Science are supposed to perform the following activities related with specific job positions.

Education:

As a teacher in

- (i) Nursery primary and middle School.
- (ii) S. O. S. School.
- (iii) Deaf & Dumb School.
- (iv) Handicaped & Blind Care Centres.
- (v) Angan Bari.
- (vi) Orphanage.
- (vii) Labour Welfare Centres.
- (viii) School Welfare Centres.

Health:

- (i) Primary Health Centres.
- (ii) Nursing Homes.
- (iii) Sick Rooms.
- (iv) Hospitals.
- (v) Family Planning Centers.
- (vi) Block Development Offices.
- (vii) Physiotherapy.
- (viii) Occoupanational Theraphy.

Enterprenurship:

As a enterprenure in the following fields.

- (i) Production of Achar, Murba, Jam, Jelly, Chips, Pappar, Bari etc..
- (ii) Production of Cookery, Bakery and Confectionery items.
- (iii) Production of Paintings and other decorative items for interier decoration.
- (iv) Mass production fo ready made garments.
- (v) Production of fashion articles.
- (vi) Mass production of woolen pullovers (Jersy) sweater and hand gloves, jackets etc..

Free Lancing

- (i) Mess contractor in Girls Hostels/Working Ladies Hostels.
- (ii) Writing articles in the Ladies Magazine.
- (iii) Advertisement.
- (iv) Modelling.
- (v) Consultancy.
- (vi) Sales Representative.

III. ACTIVITY ANALYSIS/JOB DESCRIPTION:

(A) EDUCATION:

(I) Care Taker:

- (a) Child Psychology.
- (b) Home Management
- (c) Food & Nutrition.
- (d) Health & Hygiene.
- (e) First Aid.
- (f) Child Development.
- (g) Children Games.
- (h) Stories Telling.
- (i) Charming & Humerous Personality.
- (j) Teaching Techniques.
- (k) Knowledge of Language & Basic Sciences.
- (l) Discipline.

(II) Teacher:

- (a) Subject Knowledge.
- (b) Charming Personality.
- (c) Punctual.
- (e) Discipline.
- (f) Subject Skill.
- (g) Demonstration.
- (f) Kind & Generious.
- (g) Dynamic.
- (h) Sympathetic
- (i) Etiquettes.

(B) HEALTH:

- (a) Knowledge of Anotomy & Physiology.
- (b) Knowledge of Pharmaceuticals
- (c) Knowledge of Basic principles of health & hygiene.
- (d) Knowledge of Physiotharaphy.
- (e) Knowledge of Occoupatational therapy.
- (g) Knowledge of Faimly Planning Programmes.
- (h) Kind and Generious.
- (i) Soft spoken and Humerous.
- (j) Dynamisms.
- (k) Dedication to Patients.
- (l) Social.
- (m) Publicity of Family Welfare Programmes.

(C) ENTREPRENURESHIP:

- (a) Knowledge of management.
- (b) Supervisory Skills.
- (c) Knowledge of preparation of preservatives, cookery, bakery, confectionary, larder items.
- (d) Enterprenurial Skills.
- (e) Knowledge of consumer co-operatives.
- (f) Knowledge of financial management.
- (g) Knowledge of packaging and labelling.
- (h) Window display.

(D) FREE LANCING:

- (a) Management and supervisory skills.
- (b) Behioural Science.
- (c) Kitchen management.
- (d) Procurement and knowledge of raw materials.
- (e) Knowledge of table manners.
- (f) Knowledge of home economics.
- (g) Generalism.
- (h) Knowledge of advertising media.
- (i) Modelling skills.
- (j) Fashion presentation.
- (k) Knowledge of garment technology, food production, food processing, health and family planning, teaching subject.
- (l) Dynamisms and Personality.
- (m) Presentation and communication skills.

IV CURRICULUM OBJECTIVES:

1. To develop knowledge of Child care and Mother craft.
2. To develop understanding of Health and Family planning schemes.
3. To develop techniques of dress designing and dress making.
4. To acquaint the students with various techniques of business management to acquire the knowledge of managerial and co-ordinating qualities.
5. To impart knowledge in the field of entrepreneurship development.
6. To impart knowledge and skill in the field of food production, food processing and interior decoration.
7. To equip the students with the knowledge and skill in drawing and painting.
8. To develop knowledge in the field of house keeping and home economics.
9. To aware the students in the field of soft ware applications in computers.
10. To develop knowledge of huminites and social sciences.

V. DERIVING CURRICULUM AREAS FROM COURSE OBJECTIVES:

| COURSE OBJECTIVES | CURRICULUM AREAS |
|--|--|
| 1. Child Development | 1. Food Nutrition-I. 2. Food Nutrition-II. 3. Child Development. |
| 2. Health & Family Planning | 1. Physiology & First Aid. 2. Child Development. 3. Textile & Laundry. |
| 3. Dress Designing & Dress Making | 1. Tailoring & Knitting. 2. Fundamentals of Arts. 3. Interior Decoration 4. Extension Education 5. Dress Designing. 6. Drawing & Painting. |
| 4. Business Management & Managerial Qualities | 1. Communication Techniques 2. Kitchen Management & Cookery. 3. Home Management-II 4. Extension Education |
| 5. Enterprenurship Developmet. | 1. Bakery & Confectionary. 2. Home Economics. |
| 6. Food Production Food Processing Interior Decoration | 1. Bakery & Confectionary. 2. Kitchen Management & Cookery. 3. Food Nutrition-I. 4. Food Nutrition-II. 5. Home Management-II Interior Decoration. |
| 7. Drawing & Painting. Interior Decoration | 1. Fundamentals of Art. Interior Decoration 2. Drawing & Painting. 3. Dress Designing. 4. Home Management-II 5. Interior Decoration. |
| 8. Home Management & Extension Lect. | 1. Home Management-I 2. Extension Education |
| 9. Application of Computers. | 1. Introduction to Computers. |
| 10. Communication System | 1. Professional Communication |

I SEMESTER

1.1 PROFESSIONAL COMMUNICATION

[Common to All Engineering/Non Engineering Courses]

L T P
5 - 3

Rationale:

Communication forms an important activity of diploma holder. It is essential that he/she should be in a position to communicate in writing and orally with superiors, equals and subordinates. This subject aims at providing working knowledge of languages like Hindi and English so as to train the students in the art of communication. It is suggested that maximum attention should be given in developing Communication abilities in the students while imparting instructions by giving maximum emphasis on practice.

| Sr.No. | Units | Coverage time | | |
|--------|---|---------------|---|----|
| | | L | T | P |
| 1. | Introduction to communication methods meaning, channels & media written and verbal. | 5 | - | - |
| 2. | Development of comprehension of English & Hindi through study of text material & language exercises. | 10 | - | - |
| 3. | Development of expression through A. Letters (English & Hindi) B. Report writing (English) Note making and minutes writing | 10 10 | - | - |
| 4. | Paragraph writing, Essey writing, Proposal writing | 10 | - | - |
| 5. | Composition | 10 | - | - |
| 6. | Remecial Grammer & Vocabulary Building | 15 | - | - |
| | | 70 | - | 42 |

1. PART I : COMMUNICATION IN ENGLISH (40 Marks)

- 1.1 Concept of communication, importance of effective communication, types of communication, formal, informal, verbal and nonverbal, spoken and written. Techniques of communication, Listening, reading, writting and speaking, Barriers in communication, Modern tools of communication- Fax, e-mail, Telephone, telegram, etc.
- 1.2 Technical communication Vs. General Communication : Development of comprehension and knowledge of English through the study of text material and language exercises

based on the prescribed text book of English.

1.3 Development of expression through:

1.3.1 Paragraph writing, Essay writing, Proposal writing.

1.3.2 Business and personal correspondence (Letters) :

Kinds of letters:-

Official, demi-offical, unofficial , for reply or in reply, quotation, tender and order giving letters. Application for a job, Resume.

1.3.3 Report writing and Note making and minutes writing.

1.4 Functional Grammer : Study of sentences and parts of speech (word class), Preposition, Verb, Articles, Abbreviations.

1.5 Vocabulary Building : Homophones, One word substitution, Idioms and Phrases.

1.6 Composition on narrative, descriptive, imaginative, argumentative, discussion and factual topics.

2. PART II : COMMUNICATION IN HINDI (10 Marks)

2.1 Development of comprehension and knowledge of Hindi usage through rapid reading and language exercises based on prescribed text material developed by IRDT.

2.2 Development of expression through ;

Letter writing in Hindi:

Kinds of letters:-

Official, demi-offical, unofficial , for reply or in reply, quotation, tender and order giving letters, Application for a job, Press release in Hindi, Report writing.

Note: Paper should be in two parts, part I - English and part II Hindi.

REFERENCE BOOKS

1. Bookshelf worksheet of Professional Communication, New Delhi : Bookshelf 2008

2. Functional Skills in language and literature by R. P. Singh, New Delhi : Oxford University Press.

3. Oxford English Hindi English Dictionary, New Delhi : Oxford 2008

LANGUAGE LAB PRACTICE

For the practice/exercise the following is suggested :-

- 1.A. Phonetic transcription
- B. Stress and intonation :
(At least 10 word for writting and 10 word for pronunciation)
2. ASSIGNMENT : (Written Communication)

Two assignment of approximately 400 word each decided by the teacher concerned.

THE FOLLOWING MODEL IS PROPOSED :

1. a picture/photograph
2. an opening sentence or phrase
3. a newspaper/magzine clipping or report
4. factual writting which should be informative or argumentative.
(The students may refer to "Bookshelf worksheet" for technical communication)
3. Oral Conversation:
 1. Short speeches/declamation : Bid farewell, Felicitate somebody, Celebrate a public event, Offer condolences
 2. Debate on current problems/topics
 3. MockInterview : Preparation, Unfolding of personality and Expressing ideas effectively
 4. Group discussion on current topics/problems
 5. Role Play/ general conversation : Making polite enquiries at Railway Station, Post Office, Banks and other Public places, Replying to such enquiries, enquiring about various goods sold in the market and discussing their prices. Complaining about service at Hotel, restaurant, Offering apologies in reply to such complaints, complain to a company about a defective product you have brought, reply to such complaints.
 6. Presentation skill, Use of OHP and LCD.
 7. Through drilling of model words involving different phonetic symbols (Vowels, Consonants, Difthongs).
4. Aural :

Listening to conversation/talk/reading of short passage and then writting down the relevant or main points in the specified number of words and answering the given questions

The assignments/project work are to be evaluated by the

internal/ external examiner. The distribution of 30 marks e.g.

10 marks for assignment (Given by subject teacher as sessional marks)

10 marks for conversation and viva-voce

10 marks for phonetic transcription

STRUCTURE OF THE PAPER OF PROFESSIONAL COMMUNICATION

Distribution of Marks

Theory Paper : 50 Marks

Sessional : 20 Marks

Practices : 30 Marks

Q1. Question based on the topics of the prescribed syllabus will be set for testing candidates ability to understand the content, explain words and phrases, making sentence of given words and ability to summarise will be included. All questions will have to be answered.

A. from English Text Book 10 Marks

B. from Hindi Text Book 5 Marks

Q2. Candidates will be required to write one letter (English) and one letter in (Hindi) from a choice of two -

A. English Letters 5 Marks

B. Hindi Letters 5 Marks

Q3. Report Writting on given outlines 5 Marks

Q4. There will be a number of short answer questions to test the candidates knowledge of functional grammer, structure and usage of the language. All the items in this question will be compulsory. The grammar questions has four parts -

(Total Part: A For 5 Marks, B For 3 Marks, C For 3 Marks and D For 4 Marks)

A. This part of the question has to do with the transformation of sentences. English uses several patterns of sentence formation and the same meaning can be expressed by several patterns e.g. Active to Passive voice and vice versa, Direct to Indirect and vice versa, Reframing sentences by changing part of speech e.g Noun to Adjective, Interchanging degree of comparison.

Interchanging Moods - Affirmative to Negative,

Assertive to Interrogative or to exclamatory

- B. The second part usually requires blanks in a sentence to be filled in with a suitable preposition and articles.
- C. The third part is usually an exercise on tenses.
- D. The fourth part concerns with one word substitution and abbreviation, uses of idioms and Phrases, Homophones.

Q5. COMPOSITION : (About 300 Words) (5 marks)

Candidates will be required to select one composition topic from a choice of five. The choice will normally include narrative descriptive, argumentative, discussion and factual topics. The main ceteria by which the composition will be marked are as follows

- A. the quality of the language employed, the range and appropriateness of vocabulary and sentence structure the correctness of grammatical construction, punctuation and spelling.
- B. The degrees to which candidate have been successfully in organising both the composition as a whole and the individual paragraphs.

1.2 FUNDAMENTALS OF ARTS & DESIGN

L T P
4 - 14

Rationale:

Art is such a subject by knowing it, one can know the art of living a healthy and prosperous life. In this subject the student will know how to draw different types of lines, geometrical figures, colour combination, showing tints and shades.

| Sr. No. | Units | Coverage Time | | |
|---------|--|---------------|---|-----|
| | | L | T | P |
| 1. | Introduction To Art, Materials & Tools | 5 | - | - |
| 2. | Elements of Art | 6 | - | - |
| 3. | Principles of Art | 15 | - | - |
| 4. | Design | 15 | - | - |
| 5. | Colour & Colour Psychology | 15 | - | - |
| | | 56 | - | 196 |

DETAILED CONTENTS:

1. Introduction to art material and tools.
2. Elements of art - Line, Form, Colour, Texture, Space, Light and Design.
3. Principles of Art & design :- Harmony, Balance, Rhythm, Emphasis, Proportion, Simplicity, Positive and Negative Space, Contrast, Repetition.
4. Design :- Definition, Types of design - Structural, Decorative and abstract.
5. Colour & Colour Psychology :- Introduction to colour theory, Oswald and Pigment theory. Colour Schemes - Primary, Secondary, tertiary analogous, Triadic, Complimentary, Split complimentary, Tints and shades, Warm and cool, Monochromatic, Polychromatic, Neutral colour, Colour Psychology. Textures.

PRACTICALS

1. Colour wheel, primary colour, secondary, sub secondary.
2. Make a composition of two figures using warm and cool colours.
3. Show tints and shades of the three primary colours.
4. Depict psychology of colour through collage.
5. Draw different kinds of lines on a sheet in 10 x 10 cm squares.
6. Make compositions with lines shapes and forms.

7. Thick or thin lines, wavy lines, straight lines, horizontal, vertical and diagonal lines.
8. Illustrate all the elements and principles of art.
9. Still life sketching.
10. Structural, decorative and abstract designs.(5 Each)
11. Sketching:-
 - A. Drawing of objects, still life
 - B. Nature Study - Flowers, Leaves, Fruits, Trees, Butterflies.
 - C. Figure Sketching, Stick Figures, Fashion figures.
 - D. Introduction to perspective drawing.
 - E. Pencil sketching.
 - F. Model sketching.
12. Fabric Painting:-
 - A. Sofa Back
 - B. Cushion cover
 - C. Table Mats
13. Oil Painting:-
 - A. Oil painting on canvas - Figures and flowers.
 - B. Painting on Pots.

1.3 FOOD AND NUTRITION

L T P
8 - 10

Rationale:

A human body needs a balanced diet. To know the nutritive value of balanced diet different foods and their nutritive value such as proteins, carbohydrates, fat, minerals, vitamins, calorific value etc. should be known. To cater the above needs the curriculum is designed.

| Sr. No. | Units | Coverage Time | | |
|---------|---------|---------------|---|-----|
| | | L | T | P |
| 1. | Topic 1 | 6 | - | - |
| 2. | Topic 2 | 20 | - | - |
| 3. | Topic 3 | 20 | - | - |
| 4. | Topic 4 | 20 | - | - |
| 5. | Topic 5 | 20 | - | - |
| 6. | Topic 6 | 15 | - | - |
| 7. | Topic 7 | 6 | - | - |
| 8. | Topic 8 | 5 | - | - |
| | | 112 | - | 140 |

DETAILED CONTENTS:

1. Definition of food, food nutrition and food science.
2. Basic component of food as, Carbohydrate, Protein Fat, Vitamin and Minerals their function, sources & RDA.
3. Balance diet for different stages in life.
4. Composition and nutritive value of cereal, pulse, fruits and vegetable milk and milk product.
5. Food preservation, food poisoning, food adulteration, food hygiene.
6. Therapeutic nutrition and importance, definition of dietetics.
7. Bakery and confectionary (sponge cake and biscuits).
8. Basic food group and their contribution in diet.

LIST OF PRACTICALS

1. Preparation of Pickle, Mango, Chili, etc., Tomato souces and orange squash.
2. Preparation of Sponge cake, Chocolate cake and biscuit.
3. Preparation of at least one dish from each category -
 - a. Breakfast
 - b. Snacks
 - c. Appetisers - Soup and Salad
 - d. Dessert
 - e. Regional India Dish-Vegetarian/Non-vegetarian
 - f. Chinese/Continental Dish - Vegetarian/Non-vegetarian
4. Menu Planning, Standardize the measurement of serving sizes of Cereal, Pulse, Fruit, Vegetable, Milk, Milk Product,

Flour.

4. Proper diet plan for different age group.
5. Importance of cooking method of food its relevance in nutrition.
6. Importance of Sanitation and hygiene in foods

| | | |
|---|---|---|
| L | T | P |
| 4 | - | 6 |

Rationale:

The study of Physiology of human body is the an important requirement of a student of diploma in Home Science. She can look and take care of the family and society and guide accordingly. She should be well aware of First Aid to be given to injured person. To take care into account the curriculum is designed for.

| Sr. No. | Units | Coverage Time | | |
|---------|---|---------------|---|----|
| | | L | T | P |
| (A) | Physiology | | | |
| 1. | Definition & Termonology | 2 | - | - |
| 2. | Cell:Structure,Type and an Idea about tissue & organs | 3 | - | - |
| 3. | Elementary Physiology of Following Name of organs & function of following | 15 | - | - |
| | - Circulatory System | | | |
| | - Reproductive System | | | |
| | - Respiratory System | | | |
| | - Digestive System | | | |
| | - Extretory System | | | |
| 4. | Elementary Knowledge about | 5 | - | - |
| | - Mosco-Skeletal System | | | |
| | - Endocrine System | | | |
| | - Sense Organ | | | |
| 5. | Immunity : Type of Immunity, Immunisation Schedule | 3 | - | - |
| (B) | First Aid | | | |
| 1. | Principles of First Aid | 2 | - | - |
| 2. | Cuts Wounds | 2 | - | - |
| 3. | Fracture | 2 | - | - |
| 4. | Strains & Sprains | 2 | - | - |
| 5. | Shock | 2 | - | - |
| 6. | Artifical Respiration | 3 | - | - |
| 7. | Postures | 3 | - | - |
| 8. | Burn & Scald | 3 | - | - |
| 9. | Heat Stroke | 3 | - | - |
| 10. | Application of Bandages | 3 | - | - |
| 11. | Foreign Body | 3 | - | - |
| | | 56 | - | 84 |

DETAILED CONTENTS:

(A) PHYSIOLOGY:

1. Definition and terminology related to physiology
2. Cell:Structure,Type and an Idea about tissue & organs
3. Elementary Physiology of following :
Name of organs and functions of following -
 - Circulatory System
 - Reproductive System
 - Respiratory System
 - Digestive System
 - Extretory System
4. Elementary Knowledge about :-
 - Endocrine System
 - Sense Organ
5. Immunity : Type of Immunity, Immunisation Schedule.

(B) FIRST AID

- (1) Outlines and principles of first aid.
- (2) Cuts wounds and hoemorrhage
- (3) Fracture
- (4) Strains and sprains
- (5) Shock
- (6) Artificial Respiration
- (7) Postures
- (8) Burns and scald
- (9) Heat stroke

- (10) Application of triangular, rolled bandages
- (11) Foreign body in the ear, nose, eye, throat, skin, poisoning.

PRACTICALS:

- (1) Physiology chart
- (2) Recording of temperature
- (3) Pulse palpitation
- (4) First aid box
- (5) Application of triangular, rolled bandage
- (6) Practical based on theory

2.2 CHILD DEVELOPMENT

L T P
7 - 7

Rationale:

Every woman is supposed to be a mother. The essential duties of a mother are not to be taught. Of course a mother knows better how to take care of her infants rather than to teach her. In spite of these techniques of child psychology, child development, mothercraft, care of infants, problems of child behaviour, stages of development during infancy are taken into account.

| Sr. No. | Units | Coverage Time | | |
|---------|---|---------------|---|----|
| | | L | T | P |
| 1. | Introduction & Scope of Child Development, Principle of Child Development | 9 | - | - |
| 2. | Mothercraft & Pre Natal Development | 20 | - | - |
| 3. | Care of Infant | 15 | - | - |
| 4. | Common Ailments | 8 | - | - |
| 5. | Development during infancy | 9 | - | - |
| 6. | Development during Early childhood | 15 | - | - |
| 7. | Late childhood years | 8 | - | - |
| 8. | Adolescence | 6 | - | - |
| 9. | Personality | 8 | - | - |
| | | 98 | - | 98 |

DETAILED CONTENTS:

1. Introduction, Child Development, Basic concepts and importance, Scope of child development. Principle of Child Development.
2. Mothercraft & Pre Natal Development -
 - (a) Fitness for motherhood
 - (b) How life begins.
 - (c) Signs of pregnancy.
 - (d) Stages of growth during prenatal period.
 - (e) Prenatal care, needs and care of mother during pregnancy- Personal hygiene, health, diet and clothing.
 - (f) Preparation for delivery, types of delivery, The birth process, Hazardous
 - (g) Postnatal Care- Care of mother after delivery, diet, rest and sleep.

3. Care of infant -
 - (a) Nutrition for the child -
Breast and bottle feeding.
 - (b) Bathing ,Clothing & sleeping.
 - (c) Supplimentary & Weaning foods.
 - (d) Immunization schedule.
4. Common ailments of children.
5. Development during infancy (0 - 2 yrs.)
 - (a) physical and motor development
6. Development during early childhood years (2-6 years)
 - A. Physical Development
 - B. Intellectual development
 - C. Language Development
 - D. Social Development
 - E. Importance of Play
7. Late Childhood Years (6-12 years)
 - A. Physical Development
 - B. Intellectual development
 - C. Social Development
8. Adolescence -
 - A. Changes during adolescence
 - B. Problems of adolescence
9. Personality- Definition, Factor effecting personility.

PRACTICALS

1. Visit to well baby elinics to observer new barn babies and report preparation.
2. Visit to maternity wards and report preparation.
3. Observation of new born babies and premature babies and report preparation.
4. Demonstration of babies feed, bathing, dressing and bed

making and report preparation.

5. Assessment of physical motor and cognitive abilities of school age children and report preparation.
6. Preparing resource file on different aspects of developments during adolescence.

2.3 FUNDAMENTAL OF TEXTILE AND CLOTHING

L T P
6 - 12

Rationale:

A diploma holder of Home Science should be well aware of the basics of textile theory and the practical aspects of printing on fabric. The basics of garment construction and embroidery will also be covered.

| Sr. No. | Units | Coverage Time | | |
|---------|-------------------------------|---------------|---|-----|
| | | L | T | P |
| A. | Textile | | | |
| 1. | Personal Appearance | 8 | - | - |
| 2. | Fibre Science | 8 | - | - |
| 3. | Yarn Construction | 8 | - | - |
| 4. | Printing Techniques | 8 | - | - |
| B. | Clothing | | | |
| 1. | Sewing Tools & Equipments | 12 | - | - |
| 2. | Stitches | 8 | - | - |
| 3. | Stitched Garment | 8 | - | - |
| 4. | Embroidery | 8 | - | - |
| 5. | State Embroideries | 8 | - | - |
| 6. | Finishing and care of fabrics | 8 | - | - |
| | | 84 | - | 168 |

DETAILED CONTENTS:

A. TEXTILE

1. PERSONAL APPEARANCE :

Function of clothes in our daily life. Factor influencing clothing and personality, Selection of various fabrics in relation to personality, climate, occupation, cost and up keep. Family clothing and wardrobe planning.

2. FIBRE SCIENCE :

Classification of fibres, Natural fibres : Plant fibres (Cotton, Linen); Animal fibres (Silk, Wool); Man made fibres : (Rayon), Synthetic Fibres : Nylon, Polyester); Source, Identification and utilization of fibres.

3. YARN CONSTRUCTION :

Types of yarns- Brief idea of their characteristics such as strength, twist and evenness

4. TEXTILE PRINTING:

Different types of printing and its significance

B. CLOTHING :

1. Sewing tools and equipment, Manual, Automatic and computerised Sewing machines and its parts, Function and Maintenance, Machine defects and remedies.

2. STITCHES :

Basic Hand and Machine Stitches.

3. STITCHED GARMENT :

Types and elements of stitched garments.

4. EMBROIDERY :

Need, importance and types of embroidery.

5. STATE EMBROIDERIES :

Kantha, Phulkari, Chikankari, Sindhi, Gujrati, Kashmiri.

6. FINISHING & CARE OF FABRICS :

A. FINISHING:-

Finishing of fabrics i.e. mercerisation, glazing, bleaching, dyeing and printing, etc.

B. CARE OF FABRICS: (Laundring)

Requirements:-

Water: Hardness in water, Difficulties in Laundry, methods of removal.

Soap: Soaps and Detergents.

Washing method: Rubbing and scrubbing, kneading and squeezing, suction washing, machine washing.

Stain removal: Methods of stain removal, uses of javelle water, KMNO₄, Oxalic acid, H₂O₂ bleaches.

Dry-cleaning method: Spot cleaning

Dyeing: Dyes used in the home.

LIST OF PRACTICALS

1. Study of Yarn.

2. Printing(Only sample work) - Vegetables printing, Stencil, Block, Screen, Matchstick, Fabric painting, Free hand painting, Batik & Tie and Dye - Cotton and silk.
- 3.A. Types of stitches- Hand and machine stitches.
- 3.B. Elements of Sticked Garment - Pleats, Tucks, Gathers, Sheaning, Opening, Drafts, Cuffs, Facing and Piping, Collars, Petter pan, Tennis, Shirt, Gown, Sleeves Plain, Flared, Magyar, Skirts Straight, Circular, Pannelled.
4. Embroidery Stitches - Stem, Chain, Double chain, Lasy daisy, Cross, Chevron, Feather, Fly, Herringbone, Button hole, Blanket, French knots, Bullion stitch, Satin, Long and short.
5. Applique, Patchwork, Quilting, Smocking.
6. Removal of stains from samples and garments.
7. Washing, raising, stiffening, drying, jolding, iorning and finishingg of various fabrics and garments.

2.4 EXTENSION EDUCATION

L T P
3 - 3

A. EXTENSION EDUCATION :

1. Meaning and importance of Extension Education.
2. Principles of extension education, Philosophy, Aims and objectives of Extension education.
3. Role of Home Science in Extension Education.
4. Extension Teaching Methods :-
 - A. Individual Contact : Personal, Telephonic and other electronic media contact, Home/Official Visits.
 - B. Group Contact : Demonstration, Lecture, Meeting, Workshop, Seminar, Discussion- Group, Panel, Symposium, Audio Visual Aids.
 - C. Mass Contact : Poster, Chart, Folk Method, Television, Radio, News Paper, Exhibition and Internet.
5. Audio Visual Aids - Meaning, Classification, their importance with projected and non-projected aids.
6. Programme Planning - Meaning, Definition, objectives, steps of programme planning and meaning, definition and steps of evaluation.
National and International Organisations : UNICEF, WHO, FAO, CARE, ICDS, ICMR. Current welfare programme of the Government and its evaluation.

LIST OF PRACTICALS

1. Survey work will be done by student under the guidance of institute faculty to observe the environmental condition, life style and problems of family living in different areas such as Slum and Rural areas.
2. Preparation of different teaching aids. At least one practical should be chosen from each -Projected and Non-projected aids
 - 2.1 Non Projected Aids :-
 - A. Poster
 - B. Chart
 - C. Flash Card
 - D. Puppet
 - E. Flannel Graph
 - F. Model
 - G. Specimen
 - H. Graph
 - I. Map

2.2. Projected Aids

- A. Transparancies
 - B. Slide with Power Point Presentation
3. Preparation of Radio/T.V. Talk.

III Semester

3.1 INTRODUCTION TO COMPUTER

[Common with Civil Engg., Civil (Spl. With Rural), Mechanical Engg., (Specialisation in Production, Automobile, Refrigeration and Air conditioning), Electronics Engg., Instrumentation and Control Engg., Dairy Engg., Leather Technology, Footwear and Leather Goods Tech., Cermics, Chemical Engg. (Four year Sandwich), Chemical Tech. (Rubber & Plastic), Chemical Tech. (Fertilizer)]

| | | |
|---|---|---|
| L | T | P |
| 2 | - | 5 |

Rationale:

Computers are being used for design and information processing in all branches of engineering. An exposure to fundamentals of computer programming is very essential for all diploma holders. This subject has been included to introduce students in the use and application of computers in engineering.

TOPIC WISE DISTRIBUTION OF PERIODS

| Sl.No. | Units | Coverage Time | | |
|--------|--|---------------|---|----|
| | | L | T | P |
| 1. | Introduction to Computer | 4 | - | - |
| 2. | Introduction To Operating System (MS DOS/Windows) | 3 | - | - |
| 3. | Word Processing | 4 | - | - |
| 4. | Worksheet | 4 | - | - |
| 5. | Presentation | 4 | - | - |
| 6. | Data Base Operation | 3 | - | - |
| 7. | Introduction to Internet | 2 | - | - |
| 8. | Introduction to advance tools | 4 | - | - |
| | | 28 | - | 70 |

DETAILED CONTENTS

1. Introduction to Computer:

- A. Block Diagram of Computer.
- B. Types Of Computer
- C. Types of Input and Output devices
- D. Memories Devices (Its Types and Basic).

2. INTRODUCTION TO OPERATING SYSTEMS (MS-DOS/MS-WINDOWS:)

What is operating system, its significance, Commands of DOS, Features/Application of window.

3. WORD PROCESSING:

File : Open, Close, Save, Save as, Search, Send to, Print Preview, Print and Page Setup
Edit : Cut, Copy, Paste, Office Clipboard, Select All, Find, replace, Goto, etc.
View : Normal/Web Layout/Print Layout; Tool Bars; Header/Footer; Zoom, etc.
Insert: Break, Page Number, Date & Time, Symbol, Comment, Reference, etc.
Format: Font, Paragraph, Bullets & Numbering, Borders & Shading, Column, Change case, Back ground, etc.
Tools : Spelling & Grammer, Language, Word Count, Letters & Mailing, Options, Customize, etc.
Table : Draw, Insert, Delete, Select, Auto Format, AutoFit, Convert, Sort, Formula, etc.

Mail Merge

4. WORKSHEET:

Introduction, Use of Tools/Icons for preparing simple Mini Project.

5. PRESENTATION :

Introduction, Use of Tools/Icons for preparing simple presentation on Power Point.

6. DATABASE OPERATION :

Create database using MS Access, Create Table and Creating Reports.

7. Introduction to Internet:

What is Network, How to send & receive messages, Use of Search Engines, Surfing different web sites. Creating Mail ID, Use of Briefcase, Sending./replying emails.

8. INTRODUCTION TO ADVANCE TOOLS :

I. Steps requires to solving problems.

- A. Flow Chart
- B. Algoithm
- C. Programming

II. Use of advance Tools such as Skype, Teamviewer, Installation of Modem, use of WiFi, Etc.

INTRODUCTION TO COMPUTER LAB

List Of Practicals

1. Practice on utility commands in DOS.
2. Composing, Correcting, Formatting and Article (Letter/Essay/Report) on Word Processing tool Word and taking its print out.
3. Creating, editing, modifying tables in Database tool.
4. Creating labels, report, generation of simple forms in Database tool.
5. Creating simple spread sheet, using in built functions in Worksheet tool..
6. Creating simple presentation.
7. Creating mail ID, Checking mail box, sending/replying e-mails.
8. Surfing web sites, using search engines.

Note : In the final year, related students have to use the concept of MS Word/MS Excel/MS Access/ MS Power Point in their respective branch's project work such as creating project report through MS Word/Creation of statistical data in MS Excel/Creation of database in MS Excel/ Demonstration of project through Power Point Presentation.

GROUP-I

3.2 HOME MANAGEMENT

L T P
8 - 10

Rationale:

To manage and decorate a house is the essential part of a Home Science student. To get acquainted the knowledge of the same the topic of the subject are decided. It is hoped that the student will be benefited and full fill the knowledge needed.

| Sr. No. | Units | Coverage Time | | |
|---------|----------|---------------|---|-----|
| | | L | T | P |
| 1. | Unit-I | 42 | - | - |
| 2. | Unit-II | 30 | - | - |
| 3. | Unit-III | 40 | - | - |
| | | 110 | - | 140 |

DETAILED CONTENTS:

1. UNIT-I:

- A. Home management : Definition, Concepts and importance.
- B. Factor motivating management : Goal, Values and Standards
- C. Management Process : Steps and factors in Decision Making- Planning organising, Controlling and Evaluation.
- D. Resources : Types, Importance, Characteristics, Factors effecting family life cycle.
- E. Work Simplification, Time and Energy Management
- F. MUNDEL's Classes of change

2. UNIT-II :

- A. Family money management
 - i. income and expenditure
 - ii. Budget and family account.
 - iii. Savings and investment.

3. UNIT-III :

- A. The needs of housing.
- B. Factors affecting housing.
- C. Principles of housing - Orientation, grouping, functionalism, circulation, flexibility, premisses and privacy.
- D. Furniture arrangement-Selection and care of different types of furnitures, space saving multi functional furniture.

LIST OF PRACTICALS

1. Making personal and family budget- Family financial record keeping, bank withdrawals, deposits, draft, etc. Function of debit and credit card.
2. Visit to saving and insurance institutions.
3. Making of room/house plans for different income levels. Planning efficient work areas and storage facilities.
4. Arrangement of furniture for different income groups.
5. Drawing floor plan/rooms for different income group.

GROUP-II

3.3 DIET THERAPY & PLANNING

L T P
8 - 10

Rationale:

| Sr. No. | Units | Coverage Time | | |
|---------|----------|---------------|---|-----|
| | | L | T | P |
| 1. | Unit-I | 16 | - | - |
| 2. | Unit-II | 45 | - | - |
| 3. | Unit-III | 35 | - | - |
| 4. | Unit-IV | 16 | - | - |
| | | 112 | - | 140 |

DETAILED CONTENTS:

1. Introduction of diet therapy scope and importance.
2. Different disease (Fever, Gastrointestinal disease, Cardiovas, Culur, Diabetes, Kidney diseases, Blood pressure) their ateology factor, treatment and their diet plan).
3. Different type of feeding method of patients.
4. Various types of diets- Liquid, Solid, Semi solid/liquid, Balance diet.

LIST OF PRACTICALS

1. Diet planning for patients of different diseases suffering From diseases according to socio economic status (LIG,MIg,HIG) .
2. Preparation of various types of diets.
3. Table chart of exchange list of foods.

GROUP-III

3.4 EARLY CHILDHOOD EDUCATION AND MANAGEMENT

L T P
8 - 10

Rationale:

| Sr. No. | Units | Coverage Time | | |
|---------|---------|---------------|---|-----|
| | | L | T | P |
| 1. | Topic 1 | 60 | - | - |
| 2. | Topic 2 | 52 | - | - |
| | | 112 | - | 140 |

DETAILED CONTENTS:

1. Application of theories (Education and Development) in early childhood education; various types of ECE programmes.
2. Brief historical perspective of ECE programme in India and abroad.

LIST OR PRACTICALS

1. Observation and recording of early childhood programmes.
2. Planning on yearly, monthly, weekly, daily basis.
3. Individual and shared lesson plan, activity plan and flowchart.
4. Preparation and collection of educational material.
5. Implementation of prepared plan.
6. Conducting pre and post session.
7. Arranging and equipping the classroom-different corners.

8. Carry out large and small groups activities.
9. Supervision of transition throughout the day; Feed back of plans and modification.
10. Working with parents; professional behaviour and ethics; Executive support role in the centres.
11. Working on strategies to help children with mild behavioural problems.

Above practicals to be conducted with co-operation and collaboration of any Nursery School.

3.5 TEXTILE DESIGN

| | | |
|---|---|----|
| L | T | P |
| 8 | - | 10 |

1. Weaving : principles, Loon and its parts, basic weaves,
- 2 Knitting- principles and classification.
3. Introduction to dyeing classification of dyes. Methods of dyeing.
4. Introduction to printing Methods of printing.
5. Development of pattern by colour and weave effect.
6. Construction of motif suitable for printing and weaving.
7. Elements and principles of preparing decorative designs for woven and printed fabrics for various uses. Basis of textile design like diamond ogee, curved line half drop, reverse etc. Ways of modifying colours in textiles.
8. Fusion of Design : Fusion of Indian Traditional Design with Western Designs.

LIST OF PRACTICALS

1. Weaving samples of basic weaves.
2. Preparing samples of hand knitted techniques : Plain, Purl, Rib, Tuck stitch and multi coloured stitch.
3. Tie and Dye.
4. Batik printing.
5. Screen printing.
6. Block printing.
7. Stencil printing.
8. Mairame knit.
9. Nail weaving.
10. Canvas work.
11. Development of pattern by colour and weave effect.
12. Construction of motif suitable for printing and weaving.
13. Designs based on theory topic No. 7.
14. Visit to printing unit.

IV Semester

4.1 ENVIRONMENTAL EDUCATION & DISASTER MANAGEMENT

L T P
4 - -

RATIONALE:

A diploma student must have the knowledge of different types of pollution caused due to industrialisation and construction activities, so as he may help in balancing of eco-system and control pollution by providing controlling measures. They should be also aware of the environmental laws for effectively controlling the pollution of environment. The topics are to be taught in light of legislation Para-3.

TOPIC WISE DISTRIBUTION OF PERIODS:

| SL. NO. | TOPIC | L | T | P |
|---------|---------------------------------|----|---|---|
| 1. | Introduction | 6 | | |
| 2. | Pollution | 4 | | |
| 2.1 | Water Pollution | 8 | | |
| 2.2 | Air Pollution | 8 | | |
| 2.3 | Noise Pollution | 4 | | |
| 2.4 | Radio Active Pollution | 6 | | |
| 2.5 | Solid Waste Management | 6 | | |
| 3. | Legislations | 4 | | |
| 4. | Environmental Impact Assessment | 4 | | |
| 5. | Disaster Management | 6 | | |
| TOTAL | | 56 | - | - |

DETAILED CONTENTS

1. INTRODUCTION :

- Basics of ecology, Ecosystem, Biodiversity Human activities and its effect on ecology and eco system, different development i.e. irrigation, urbanization, road development and other engineering activities and their effects on ecology and eco system, Mining and deforestation and their effects.
- Lowering of water level , Urbanization.
- Biodegradation and Biodegradability, composting, bio remediation, Microbes .Use of biopesticides and biofungicides.
- Global warning concerns, Ozone layer depletion, Green house effect, Acid rain,etc.

2. POLLUTION :

Sources of pollution, natural and man made, their effects on living environments and related legislation.

2.1 WATER POLLUTION :

- Factors contributing water pollution and their effect.
- Domestic waste water and industrial waste water. Heavy metals, microbes and leaching metal.
- Physical, Chemical and Biological Characteristics of waste water.
- Indian Standards for quality of drinking water.
- Indian Standards for quality of treated waste water.
- Treatment methods of effluent (domestic waste water and industrial/ mining waste water), its reuse/safe disposal.

2.2 AIR POLLUTION :

Definition of Air pollution, types of air pollutants i.e. SPM, NOX, SOX, CO, CO₂, NH₃, F, CL, causes and its effects on the environment.

- Monitoring and control of air pollutants, Control measures techniques. Introductory Idea of control equipment in industries i.e.
 - A. Settling chambers
 - B. Cyclones
 - C. Scrubbers (Dry and Wet)
 - D. Multi Clones
 - E. Electro Static Precipitations
 - F. Bog Fillers.
- Ambient air quality measurement and their standards.
- Process and domestic emission control
- Vehicular Pollution and Its control with special emphasis of Euro-I, Euro-II, Euro-III and Euro IV.

2.3 NOISE POLLUTION :

Sources of noise pollution, its effect and control.

2.4 RADISACTIVE POLLUTION :

Sources and its effect on human, animal, plant and material, means to control and preventive measures.

2.5 SOLID WASTE MANAGEMENT :

Municipal solid waste, Biomedical waste, Industrial and Hazardous waste, Plastic waste and its management.

3. LEGISLATION :

Preliminary knowledge of the following Acts and rules made thereunder-

- The Water (Prevention and Control of Pollution) Act - 1974.
- The Air (Prevention and Control of Pollution) Act - 1981.
- The Environmental Protection (Prevention and Control of Pollution) Act -1986. Rules notified under EP Act - 1986 Viz.
 - # The Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000
 - # The Hazardous Wastes (Management and Handling) Amendment Rules, 2003.
 - # Bio-Medical Waste (Management and Handling) (Amendment) Rules, 2003.
 - # The Noise Pollution (Regulation and Control) (Amendment) Rules, 2002.
 - # Municipal Solid Wastes (Management and Handling) Rules, 2000.
 - # The Recycled Plastics Manufacture and Usage (Amendment) rules, 2003.

4. ENVIRONMENTAL IMPACT ASSESSMENT (EIA) :

- Basic concepts, objective and methodology of EIA.
- Objectives and requirement of Environmental Management System (ISO-14000) (An Introduction).

5. DISASTER MANAGEMENT :

Definition of disaster - Natural and Manmade, Type of

disaster management, How disaster forms, Destructive power, Causes and Hazards, Case study of Tsunami Disaster, National policy- Its objective and main features, National Environment Policy, Need for central intervention, State Disaster Authority- Duties and powers, Case studies of various Disaster in the country, Meaning and benifit of vulnerability reduction, Factor promoting vulnerability reduction and mitigation, Emergency support function plan.

Main feature and function of National Disaster Management Frame Work, Disaster mitigation and prevention, Legal Policy Frame Work, Early warning system, Human Resource Development and Function, Information dissemination and communication.

4.2 PROJECT

L T P
- - 12

Each student will be assigned two(2) specific task, One each from the chosen two groups by the student such that at least one task will be from one group and other one from the second group.

The project task should be based on the topic covered in any specific subject of that group, taking help from the list of practicals of that subject.

Students should be asked to survey the application area of that subject by herself/himself and choose the task. Guidance should be provided by the teacher is choosing the task for project.

GROUP-I

4.3 INTERIOR DECORATION AND KITCHEN MANAGEMENT

L T P
6 - 10

Rationale:

| Sr. No. | Units | Coverage Time | | |
|--------------------------------|-------------------------------|---------------|---|-----|
| | | L | T | P |
| I. Unit I Interior Decoration | | | | |
| 1. | Art of Decoration | 17 | - | - |
| 2. | Lighting | 16 | - | - |
| 3. | Floor Covering | 16 | - | - |
| II. Unit II Kitchen Management | | | | |
| 1. | Kitchen Layout & Organization | 16 | - | - |
| 2. | Kitchen Equipment | 16 | - | - |
| | | 84 | - | 140 |

DETAILED CONTENTS:

I. Unit I :Interior Decoration :

1. Art of Decoration:-

- A. Illusion - Graphical, Geometrical, By Colour, Optical.
- B. Flower Arrangement and Flower vase decoration
- C. Accessories - Interior accessories - Wall Painting, Murals, Relief Painting, Sculptures, Plant and Planters, Ethnic and Traditional Ornaments, Holders, Pottery and other hand made objects.
- D. Wall Decoration - Paint- Types of Paint and their finishes, Painting, Types of Curtel and Draperies - their selection of colours and pattern as per interior of room, types of valances to enhance curtain decoration, Types of tapestries and method of appliacion and their maintenance.

2. Lighting - Types of lighting - Up lights, Down lights, Pendants, Cove lighting, Conseal lights, Bracket Light. Creating different moods through lighting.

3. Floor Covering - Types of floor covering - Carpet, Rugs, Linoleum, PVC, Quartz, Wooden, etc. Methods of cleaning,

Care and Maintenance of floor covering.

II. Unit I :Kitchen Management :

1. Kitchen Layout- different types e.g. L-shape, U-shape.
2. Kitchen organization.
3. Maintenance and care of kitchen equipments.
4. Modern apparatus of kitchen.

List Of Practicals

A. Interior Decoration

1. Flower Arrangement and Bouquette and Floor Decoration (Rangoli & Alpana).
2. Care and arrangement of furniture for different purpose.
3. Placement of accessories for interior enrichment with the use of different types of curtains/Draperies/Tapestries.
4. Dressing of Furniture - Cushion on Chair and Sofa, Seat Cover, Upholstry, Table Cover - Plastic, Linen, Jute, Bed Covers and accessories, Blanket preparation on bed, etc.
5. Drawing of lighting plan for various activities and areas.
6. Effect of architectural and decorative lighting.
7. To draw a geometric/graphical illusion.

B. Kitchen Management

1. Drawing of kitchen layout with wall elevation using all accessories.
2. Planning of all kitchen equipment.
3. Care of kitchen equipment.
4. Study of modern apparatus of kitchen.

| | | |
|---|---|----|
| L | T | P |
| 6 | - | 10 |

Rationale:

| Sr. No. | Units | Coverage Time | | |
|---------|--------|---------------|---|-----|
| | | L | T | P |
| 1. | Unit-1 | 12 | - | - |
| 2. | Unit-2 | 10 | - | - |
| 3. | Unit-3 | 12 | - | - |
| 4. | Unit-4 | 10 | - | - |
| 5. | Unit-5 | 12 | - | - |
| 6. | Unit-6 | 10 | - | - |
| 7. | Unit-7 | 5 | - | - |
| | | 84 | - | 140 |

DETAILED CONTENTS:

1. INSTITUTIONAL FOOD MANAGEMENT :

Development of food service institutions, Approaches of management, Management philosophy, principal and functions, Tools of management, Management of resource.

2. SPACE PLANNING AND ORGANIZATION :

Kitchen space, Storage spaces, Service areas.

3. EQUIPMENT :

Purchase, Care and Maintenance of equipment.

4. FOOD MANAGEMENT :

Food purchasing, Inventory management, Menu planning, Food production, Food service.

5. FINANCIAL MANAGEMENT :

Financial management, Cost budgeting and accounting.

6. PERSONAL MANAGEMENT :

Staff employment, Staff training and development

7. HYGIENE SANITATION AND SAFETY :

Hygiene and sanitation, Safety and security.

LIST OF PRACTICALS

Practical will be manage according to theory.

GROUP-III

4.5 ENTREPRENURSHIP IN CHILD CARE SERVICE

L T P
6 - 10

Rationale:

| Sr. No. | Units | Coverage Time | | |
|---------|---------|---------------|---|-----|
| | | L | T | P |
| 1. | Topic 1 | 28 | - | - |
| 2. | Topic 2 | 28 | - | - |
| 3. | Topic 3 | 28 | - | - |
| | | 84 | - | 140 |

DETAILED CONTENTS:

1. Basic information about child care institution their infrastructure objectives and activities -
 - A. Day care centres
 - B. Creches
 - C. Bal Bhavan
 - D. Orphanages
 - E. Remand Homes
 - F. Aganwadi & Balwadi
 - G. Child Guidance Clinics
2. Different child care services at National and International level their objectives and programmes.
 - A. UNICEF
 - B. ICDS
 - C. CARE
3. Basic steps towards entrepreneurship
 - A. Knowledge about funding agencies
 - B. Legal and regulatory processing
 - C. Record keeping.

LIST OF PRACTICALS

1. Visit to various child care institutions.
2. Preparing a detailed report of the visit on the following guidelines.
 - A. Location land building
 - B. Staff and their salaries

- C. Budget and funding agencies
- D. Activities being undertaken
- E. Record keeping
- F. Evaluation

4.6 COSTUME DESIGNING :

| | | |
|---|---|----|
| L | T | P |
| 6 | - | 10 |

1. CLASSIFICATION OF GARMENTS AND MEASUREMENTS :

Garment classification for men and women (for different age groups), Fabric selection for garments and properties, Eight head theory of human anatomy, Measurements and its importance, Method of taking important body measurements for gents and ladies garments.

2. Clothing requirements (Men and Women both) for Children, adloescent, Adults and Senior citizens.

3. Wardrobe planning, Clothing awareness and symbolism, Socialization and self concept.

4. Authropometric measurements.

5. Basic pattern making- Patterning importance of paper patterns, types of paper patterns, Principles of pattern drafting, Study of pattern making of top and bottom garments, Grading - Study of grading of various components of top and bottom garments (Two examples of men and women both), Maker planning - Computer Aided Pattern Making and Grading system.

6. SEWING TECHNOLOGY :

Stitch, Classification of stitch, Seam, Different types of seams, Sewing aids/tools, Parts of sewing machine, Study of various types of sewing machines such as Lock Stitch, Chain Stitch, Over lock, Flat Lock, Button Holding, Buttoning and computer Controlled Sewing Machines. Timing Diagram for Lock stitch, Trimmings, Selection of Needle and Sewing thread. Study construction of top and Bottom and Garments, Individual and Group Production System.

LIST OF PRACTICALS

1. Drafting, draping and flat pattern making.
2. Cutting and stikling of different garments.
3. Demonstration layout of different fabrics.
4. Designing and construction of ten to fifteen garments of different age group using different construction and decorative features.
5. Pattern grading.
6. Visit to apparel manufacturing unit.

DIPLOMA IN HOME SCIENCE
STAFF STRUCTURE

| | | |
|---|--------------------------------------|-----------------|
| - | Intake of the students in the course | 60 |
| | Pattern of the course | Semester System |

Staff teaching and supporting

| | | |
|-----|-----------------------|------------------------------|
| 1. | Principal | 1 |
| 2. | H.O.D. | 1 |
| 3. | Lecturer Home Science | 4 |
| 4. | Lecturer Language | 1 (part time) |
| 5. | Computer Programmer | 1 |
| 6. | Lab Assistant | 2 |
| 7. | Steno typist | 1 |
| 8. | Accountant/Cashier | 1 |
| 9. | Student/Library Clerk | 1 |
| 10. | Store Keeper | 1 |
| 11. | Class IV | 6 |
| 12. | Sweeper | Part Time as per requirement |

The posts of Chaukidar and Mali will be sanctioned according to the justification of institution. Services of existing staff in other disciplines of the institute may be utilized, if possible.

Guest lectures may be organised at suitable time. The post of "Computer Programmer" is not needed in the institutions where diploma in "Electronics Engineering" is running.

Note:- Guest lectures may be organised at suitable time by the institute

DIPLOMA IN HOME SCIENCE
STAFF QUALIFICATION

Revised qualification for the post of head of Department and lecturer for the two year diploma in home science.

| Sl.No. | Name of post | Qualification |
|--------|-----------------------|--|
| 1. | Head of Department | Post Graduate Degree in Home Science with specialisation in Child Development/Food & Nutrition/Clothing and Textile/Family Resource Management/Extension Education |
| 2. | Lecturer Home Science | Post Graduate Degree in Home Science with specialisation in Child development |
| 3. | Lecturer Home Science | Post Graduate Degree in Home Science with specialisation in Food & Nutrition. |
| 4. | Lecturer Home Science | Post Graduate Degree in Home Science with specialisation in Clothing & Textile. |
| 5. | Lecturer Home Science | Post Graduate Degree in Home Science with specialisation in Home Resource Management |
| 6. | Computer Programmer | Bachelor degree with Physics or Mathematics, Knowledge of operating computer system & Diploma in Electronics. |
| | | OR |
| | | B.Sc. with Mathematics & Physics with 3yrs Experience in Computer Operation. |
| | | OR |
| | | Diploma in Electronics Engg. with 4yrs Experience in concerned field. |
| 7. | Lab Assistant | Diploma In Home Science with 2 Years Experience OR Graduate in Home Science |

SPACE REQUIREMENT

| A. | LAND AREA | NO | M2 | |
|----|--|-----|-----|------------|
| B. | Administrative Block | | | |
| 1. | Principal's Room | 1 | 30 | m2 |
| 2. | Steno Room | 1 | 6 | " |
| 3. | Confidential Room | 1 | 10 | " |
| 4. | Office Room | 1 | 80 | " |
| 5. | Library (Common with other disciplines) | 1 | 150 | " |
| 6. | Common Room | 1 | 80 | " |
| 7. | Class Rooms | 1+1 | 75 | " |
| 8. | Store | 1 | 100 | " |
| 9. | Model room | 1 | 90 | " |
| C. | LABORATORIES BLOCK | | | |
| 1. | Physiology & First Aid Lab. 4 sqm. per student. | 1 | 60 | " |
| 2. | Art & Design Lab | 1 | 120 | " |
| 3. | Kitchen & Food Lab 4 sqm. per student. | 1 | 120 | " |
| 4. | Textile & Colthing Lab 8 sqm. per student. | 1 | 120 | " |
| 5. | Extension Education Lab (Common with Computer Lab and LRDC) | 1 | | |
| 6. | Child Development Lab (No Seperate Lab required) | 1 | | |
| 7. | Computer Lab. | 1 | 60 | " |
| D. | Common Facilities | | | |
| 1. | Dispensary | 1 | 40 | " |
| 2. | Canteen & Tuck shop | 1 | 50 | " |
| 3. | Parking space/ Cycle stand | 1 | 50 | % students |

| | | | | |
|----|---|---|----|--------------|
| | with Garrage | | | |
| 4. | N.C.C. Block | 1 | 70 | " |
| 5. | Guest Room | 1 | 30 | " |
| E. | Residential Facilities | | | |
| 1. | Hostel for Students | 1 | | for 60 girls |
| 2. | Staff Quarters | | | |
| | Principal | 1 | | Type IV |
| | HOD/Warden | 2 | | Type IV |
| | Sr. Lect./Lect. | 2 | | Type IV |
| | Technical/ Ministerial Staff | 2 | | Type II |
| | Class IV | 6 | | Type I |
| 3. | Play ground (Common with other disciplines) | 1 | | - |

List of Equipments

Only those of the equipments given below which are essentially required for the conduction of practicals mentioned in the curriculum are to be procured by the institutions.

"Machine/Equipments/Instruments of old BTE list which are not included below are to be retained in the Lab/Shop for Demonstration purpose but not to be demanded fresh for purchase."

| Sl.No. | Specification of Equipment | Quantity | Cost |
|-------------------------------|--|----------|-----------|
| 1. Physiology and first Aid | | | |
| 1. | First aid cupboard & box | 1 | 2000.00 |
| 2. | Thermometer | 4 | 100.00 |
| 3. | Bandages | | 100.00 |
| 4. | Sets of Chart, Models of physiology | 2 set | 400.00 |
| 5. | Cot & Bed Wooden with newar mattress & bed sheets, pillow, P.cases, towels, blankets. | 2 set | 10,000.00 |
| 2. Art & Design Lab | | | |
| A. Art & Design Lab | | | |
| B. Interior Decoration Studio | | | |
| C. Home Management Lab | | | |
| 1. | Drawing boards and Easle board half imperial size | 15 | 3000.00 |
| 2. | Brushes and colour mixing plate | 2 set | 200.00 |
| 3. | Paint/Colours | 2 set | 500.00 |
| 4. | Steel Almirah | 1 | 3000.00 |
| 5. | Vases & Flower Pots | 6 | 500.00 |
| 6. | Decorative materials- wall hangings, pictures, paintings, Sculpture, Pottery, Plant & Planters, Hand Made Object | | 25000.00 |
| 7. | Steel almirah | 1 | 3000.00 |
| 8. | Pin holders | 12 | 500.00 |
| 10. | Furnitures of Different Types | | 100000.00 |
| 11. | Dressing of Furniture | | 10000.00 |
| 12. | Curtains, Draperies, Tapestries | | 25000.00 |
| 13. | Different Types of Lighting | | 25000.00 |
| 14. | Floor Covering | | 25000.00 |

| Sl.No. | Specification of Equipment | Quantity | Cost |
|--------|--|----------|-----------|
| 15 | House hold equipments | 1 set | 25000.00 |
| 16. | Vaccum Cleaner | 1 set | 5000.00 |
| 17. | Heater Electric | 2 | 200.00 |
| 18. | Iron of different types - Steam, Electric | 1 each | 1000.00 |
| 19. | Different types of Brooms, Squeegees, Brushes, mops | 1 set | 500.00 |
| 20. | Geager | 1 | 5000.00 |
| 3. | Kitchen & Food Lab | | |
| A. | Kitchen Management Lab | | |
| B. | Food & Nutrition Lab | | |
| C. | Institutional Food Service Lab | | |
| 1. | Steel Almirah | 3 | 10000.00 |
| 2. | Glass almirah | 3 | 10000.00 |
| 3. | Electric Oven | 2 | 15000.00 |
| 4. | Pressure Cooker of different sizes(5 lit, 3lit, 1 lit.) | 1 each | 10000.00 |
| 5. | Idli vessel | 1 | 1000.00 |
| 6. | Electric Toaster | 1 | 1000.00 |
| 7. | Mixer, grinder and juicer (Electric) | 2 | 8000.00 |
| 8. | Refrigerator | 2 | 20,000.00 |
| 9. | Cooking range (gas) | 2 | 10000.00 |
| 10. | Microwave Oven | 2 | 20000.00 |
| 11. | Micro range/ cooking range | 1 | 5000.00 |
| 12. | Gas oven cum cooling range | 10 | 10,000.00 |
| 13. | Electric table oven | 5 | 10000.00 |
| 14. | Gas with cylinder (1+2), stove 4 burner - super flame/hot line | 3 | 3000.00 |
| 15. | Egg beater electric | 2 | 1000.00 |
| 16. | Ulensil, mould cake tins and trays, bucket | 1 set | 3000.00 |
| 17. | Icing bags | 6 | 1500.00 |
| 18. | Swiss roll tray | 1 | 500.00 |

| Sl.No. | Specification of Equipment | Quantity | Cost |
|--------|--|----------|----------|
| 19. | Cream horns mould | | 500.00 |
| 20. | Ice cream tins | 3 | 600.00 |
| 21. | Weighing machine - Balance weighing scale needle type | 1 | 500.00 |
| 22. | Thermos, jars, Containers, Ice Buckets, Thermal jars. | 1 each | 1000.00 |
| 23. | Buiscuit cutter | 1 set | 200.00 |
| 24. | Food Processor | 1 set | 8000.00 |
| 25. | Service Trolly | 1 | 3000.00 |
| 26. | Utensils & Tawa of different sizes | 3 set | 15000.00 |
| 27. | Steel dinner set | 2 | 4000.00 |
| 28. | Cutlery set | 2 | 1000.00 |
| 29. | Weighing scale | 2 | 1000.00 |
| 30. | Egg cutter | 2 | 100.00 |
| 31. | Different types of knives and cutter | | 100.00 |
| 32. | Chopping board | 2 | 100.00 |
| 33. | Non stick cook wears | 5 | 5000.00 |
| 34. | Bucket and tubs for water storage | 2 | 2000.00 |
| 35. | Waste bin (covered with lid) | 2 | 100.00 |
| 36. | China dinner set | 1 | 5000.00 |
| 37. | Trays for serving | 2 | 500.00 |
| 38. | Table cloth, table mats, napkins | | 1000.00 |
| 39. | Crusher | 2 | 2000.00 |
| 40. | Containers of all sizes, pearl pet, steel or alluminum or plastic | | 2000.00 |
| 41. | Different types of Jugs & Glass Set | | 5000.00 |
| 42. | Different types of Dessert Set | | 5000.00 |
| 43. | Payment & Token Counter | 1 | 15000.00 |
| 44. | Food Service Counter | 1 | 20000.00 |
| 45. | Table with 4 Chair | 4 Set | 20000.00 |

Item No. 43,44,45 is meant for Institutional Food Service Management.

| Sl.No. | Specification of Equipment | Quantity | Cost |
|--------|---|----------|-----------|
| 46. | Kitchen Sink | 1 Set | 5000.00 |
| 47. | Utensil Stand | 1 Set | 2000.00 |
| 4. | Textile & Clothing Lab | | |
| A. | Textile & Clothing Lab | | |
| B. | Textile Design Lab | | |
| C. | Costume Design Lab | | |
| D. | Laundry | | |
| 1. | Sewing machine with foot motor operated/hand operated | 15 | 30,000.00 |
| 2. | Fashion makers Simple & Computerised | 2 each | 210000.00 |
| 3. | Knitting machine | 5 | 25,000.00 |
| 4. | Cutting table | 4 | 10000.00 |
| 5. | Ironing board | 4 | 10000.00 |
| 6. | Scissors tailors | 4 | 1000.00 |
| 7. | Iron electric | 4 | 4000.00 |
| 8. | Tailoring scales, measuring tape | | 100.00 |
| 9. | Steel almirah | 4 | 20000.00 |
| 11. | Washing machine | 1 | 10000.00 |
| 12. | Dye bath | 6 | 3000.00 |
| 13. | Steam iron | 2 | 5000.00 |
| 14. | Microscope Student Model | 15 | 45,000.00 |
| 15. | Iron tub, Iron trays for soap making | 2 each | 1000.00 |
| 16. | Gas with gas cylinder | 1 | 2000.00 |
| 17. | Glass almirah | 3 | 20000.00 |
| 18. | Stain remover machine | 1 | 5000.00 |
| 19. | Spirit lamp | 15 | 1000.00 |
| 20. | Soap dish | 15 | 100.00 |
| 21. | Weighing machine (5 Kg capacity) | 1 | 500.00 |
| 22. | Bucket & mugs (2+1) | 3 | 500.00 |
| 23. | Steel Large Bagonas | 4 | 500.00 |

24. Blocks 5 sets 500.00

| Sl.No. | Specification of Equipment | Quantity | Cost |
|--------|--|----------|---------|
| 25. | Frame For Batik | 30 | 600.00 |
| 26. | Screen Tables | 2 | 2000.00 |
| 27. | Frame for Screen Printing | 5 | 500.00 |
| 28. | Colour mixing machine | 1 | 2000.00 |
| 29. | Steel Stand (For Hanging Cloths) | 5 | 5000.00 |
| 30. | Batik Tubs (Enamel 25 liters) | 4 | 4000.00 |
| 31. | Stove | 15 | 3000.00 |
| 32. | Aluminium Frying Pan Thick | 15 | 1000.00 |
| 33. | Batik Brushes | 30 | 300.00 |
| 34. | Wodden Spoon | 10 | 100.00 |
| 35. | Drums for storing water of 100 ltr. capacity | 2 | 600.00 |

INTRODUCTION TO COMPUTER (Common to all Trades)

COMPUTER CENTRE

| S.No. | DESCRIPTION | QTY. | APPROX. COST (in Rs.) |
|-------|---|-----------|--------------------------|
| 1. | Core-2 Quad Processor, 4GB RAM 1 GB SATA HDD, 19" TFT Monitor/ Server of Latest Specification OS-Windows 2007/2008/Latest Version | 02 Server | 1,20,000=00 |
| 2. | General Desktop Computer-Intel i5 60 node or Higher(with latest Specification Pre loaded latest Anti Virus with Life time Subscription, Licence Media and Manual with UPS 660 VA with latest window OS Including licence OR Computer of latest Specification With latest window os including licence | | 36,00,000=00 |
| 3. | Software :((Latest Version) | | |
| | i. MS OFFICE 2010/Latest Version | | LS LS |
| | ii COMPILER 'C', C++, JAVA-7 | | LS LS |
| 4. | Hardware | | 4,50,000.00 LS |
| | i. Switch-32 Port | | 02 |
| | ii. Router | | 02 |
| | iii. Hub | | 04(8 Port) |
| | iv. Ext. Modem | | 02 |
| | v. Wireless N/W Adaptor | | 02 |
| | vi. Series Access Point | | 02 |
| | vii.LAN Cable Meter | | 05 |
| | viii. LAN Cable Analyzer | | 05 |
| | ix. Crimping Tool and all other accessories related to Networking | | 15 |
| 5. | Scanner- Flat Bed A4/Auto Lighter (Bit depth 48) | 02 | 20,000 |
| 6. | 132 Column 600 CPS or faster 9 Pin dot matrix printer with 500 million character head life | 02 | 50,000 |
| 7. | Laser Jet-A4 All In one 20 page | 04 | 50,000 |

| | | | |
|-----|--|----|---------|
| | per min (2 Each) | | |
| 8. | Desk Jet-A4 Photo Smart (2 Each) | 04 | 40,000 |
| 9. | 5 KVA on line UPS with minimum 30 minute battery backup along with sealed maintenance free batteries. Provision for connecting external batteries with network connectivity.(For 2 Labs) | 04 | 8,00000 |
| 10. | Split Air Conditioner 1.5 tones capacity with ISI mark along with electronic voltage stabilizer with over voltage and time delay circuit | 08 | 35,0000 |
| 11. | Room preparation and furniture | LS | |
| 12. | 19" rack, 24-port switch. connector RJ-45 Cat-6 cabling for network | LS | 10,0000 |
| 13. | 2 KVA Inverter Cum UPS | 02 | 6,0000 |
| 14. | Fire Extinguisher (2 Kg.) | 04 | 15000 |
| 15. | Fire Extinguisher (5 Kg.) | 04 | 25000 |
| 16. | Vacuum Cleaner | 02 | 25000 |
| 17. | LCD Projector 3000 Lumen with all Accessories | 02 | 350000 |
| 18. | Pen Drive 16 GB | 10 | 10000 |
| 19. | DVD Writer External | 02 | 10000 |
| 20. | HDD External 500 GB | 02 | 15000 |
| 21. | PAD (Latest Configuration) | 02 | 15000 |
| 22. | Broadband For Internet (Speed Min. 8mbps) | 04 | LS |
| 23. | USB Modem | 02 | 8000 |
| 24. | Generator 15 KVA Water Coolant | 01 | 450000 |

LEARNING RESOURCE MATERIALS

| | | | | |
|----|--|---|----|-------|
| 1. | LCD Projector with Screen | 1 | -- | 20000 |
| 2. | Handicam | 1 | -- | 30000 |
| 3. | Cutting, Binding & Stitching equipment. | 1 | -- | 30000 |
| 4. | Desk Top Computer with Internet Core i5/i7- 760, Processor, Genuine Windiw 7, Professional 18 inch HD, Flat Panel Monitor Optical Mouse, Key Board & all related media or latest version | 1 | -- | 40000 |
| 5. | Home Theater Support Disc type CD. CDR/CDRW DVDR/DVDRW, VCD Supported with USB Port Support-DIVX/JPEG/MP3 | 1 | -- | 25000 |
| 6. | Commerical P A System 16 W-220W output, AC & 24V DC Operated, 5 Mic. & 2 Auxilary input, Speaker output 4 Ohm, 8 Ohm, 17 V & 100 V | 1 | -- | 20000 |
| 7. | Interactive Board | 1 | -- | 50000 |

ote :

1. This center will be only one at the institute level irrespective of all branches.

ANNEXURE - I

FIELD EXPOSURE

The first year students will have a four week Industrial Training in related institutions/ organization during summer vacation. They will incorporate following points in their report.

1. Name and Address of the unit
2. Date of
 - i. joining.
 - ii. Leaving
3. Nature of Industry
 - i. Product.
 - ii. Services
 - iii. Working Hrs.
4. Sections of the unit visited and activities there in.
5. Details of machines/Tools & instruments used in working in the section of the unit visited.
6. Work procedure in the section visited.
7. Specification of the product of the section and materials used.
8. Control of work & Quality.
9. Inspection procedures packing storing and disparting of products.
10. Use of computer - if any
11. Visit of units store, Manner

of keeping store items, Their receiving and distribution.

12. Safety measures on work place & working conditions in general comfortable, convenient and hygienic.
13. Pollution, professional diseases and hazards if any. Precautionary measures.

ANNEXURE-QUESTIONNAIRE

INSTITUTE OF RESEARCH, DEVELOPMENT AND TRAINING U.P. KANPUR -208024

SUBJECT: Questionnaire for ascertaining the job potential and activities of diploma holder in Home Science.

PURPOSE: To design and develop diploma curriculum in Home Science.

NOTE: 1. Please answer the questions to the points given in the questionnaire.
2. Any other point or suggestion not covered in this questionnaire may be written on a separate paper and enclosed with the questionnaire.

1. Name of the organisation: _____

2. Name & Designation of the officer filling the questionnaire _____

3. Name of the department/section/shop _____

4. Important functions of the department/section/shop _____

5. Number of diploma holder employees under your charge in the area of _____
Chemical Engg.

6. Please give names of modern equipments/machines handled by a diploma holder in Home science.

1.

2.

3.

15. In which types of organisations can a diploma holder in Home Science can work or serve.
- | | | |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |
16. Job prospects for the diploma holder in Home Science the next ten years in the state / country.
17. In your opinion what should be the subjects to be taught to a diploma student in Home Science.
- | | |
|--------|-----------|
| Theory | Practical |
|--------|-----------|
18. Kindly mention particulars regarding topics/areas which should be given more emphasis in the curriculum .
- | | |
|--------|-----------|
| Theory | Practical |
|--------|-----------|
19. Kindly state whether your organisation can contribute towards improvement of curriculum in above field. Yes/ No
If yes : Please give names of experts in your organisation to whom contact.
20. Kindly give your valuable suggestions for being considered at the time of finalisation of curriculum.
21. What changes in technologies are to be incorporated in the development of curriculum in Home Science.

(Signature)

Kindly mail the above questionnaire duly filled to:-

SHRI G. N. SINGH
Assistant Professor
Institute of Research, Development & Training, U.P.
Govt. Polytechnic Campus
Kanpur-208024

(Please note that all information in this survey is confidential for the use of curriculum design only)