

## 2.1 ENGLISH AND COMMUNICATION SKILLS - II

L	T	P	Cr
3	-	2	

#### 4 RATIONALE

Language is the most commonly used medium of self-expression in all spheres of human life – personal, social and professional. A student must have a fair knowledge of English language and skills to communicate effectively to handle the future jobs in industry. The objective of this course is to enable the diploma holders to acquire proficiency, both in spoken (oral) and written language. At the end of the course, the student will be able to develop comprehension skills, improve vocabulary, use proper grammar, acquire writing skills, correspond with others and enhance skills in spoken English. It is expected that each polytechnic will establish a **communication skill laboratory** for conducting practicals mentioned in the curriculum.

#### DETAILED CONTENTS

1. Facets of Literature (14 hrs)
  - 1.1 Short stories
    - 1.1.1 The Portrait of a Lady - Khushwant Singh
    - 1.1.2 The Doll's House – Katherine Mansfield
    - 1.1.3 The Refugees – Pearl S. Buck
  - 1.2 Prose
    - 1.2.1 Walking Tours – R.L. Stevenson
    - 1.2.2 A Dialogue on Civilization – C.E.M. Joad
    - 1.2.3 The Sign of Red Cross – Horace Shipp
  - 1.3 Poems
    - 1.3.1 All The World's A Stage – W. Shakespeare
    - 1.3.2 Say Not, The Struggle Nought Availeth – A.H. Clough
    - 1.3.3 Pipa's Song – Robert Browning
2. The Art of Précis Writing (04 hrs)
3. Grammar and Usage (08 hrs)
  - 3.1 Narration
  - 3.2 Voice
  - 3.3 Idioms and Phrases

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|----|--|----------|
| 4. | Correspondence                           | (04 hrs) |
|    | 4.1 Business Letters                     |          |
|    | 4.2 Personal letters                     |          |
| 5. | Drafting                                 | (06 hrs) |
|    | 5.1 Report Writing                       |          |
|    | 5.2 Inspection Notes                     |          |
|    | 5.3 Memos, Circulars and Notes           |          |
|    | 5.4 Telegrams                            |          |
|    | 5.5 Press Release                        |          |
|    | 5.6 Agenda and Minutes of Meetings       |          |
|    | 5.7 Applying for a Job                   |          |
| 6. | Glossary of Technical & Scientific Terms | (04 hrs) |
| 7. | Communication                            | (08 hrs) |
|    | 7.1 Media and Modes of Communication     |          |
|    | 7.2 Channels of Communication            |          |
|    | 7.3 Barriers to Communication            |          |
|    | 7.4 Listening Skills                     |          |
|    | 7.5 Body language                        |          |
|    | 7.6 Humour in Communication              |          |

### LIST OF PRACTICALS

1. Practice on browsing information from Internet
2. Group Discussions
3. Mock Interviews
4. Telephone Etiquette – demonstration and practice
5. Situational Conversation with feedback through video recording
6. Presentation on a given theme (using PowerPoint)
7. Exercises leading to personality development like mannerism, etiquettes, body language etc.
8. Reading unseen passages
9. Writing (developing) a paragraph
10. Exercises on writing notices and telephonic messages

### Note:

1. The Text Book on “English and Communication Skills, Book-II By Kuldip Jaidka et. al. developed by NITTTR, Chandigarh is recommended to be used for teaching & setting-up the question papers.
2. A communication laboratory may be set up consisting of appropriate audio-video system with facility of playing CDs/DVDS and a video camera for recording the performance of each student with play back facility. A set of CDs from any language training organization e.g. British Council etc. may

- be procured for use of students.
3. Elements of body language will be incorporated in all practicals
  4. The practical exercises involving writing may also be included in Theory Examination.

### RECOMMENDED BOOKS

1. English and Communication Skills, Book-II By Kuldip Jaidka, Alwainder Dhillon and Parmod Kumar Singla, Prescribed by NITTTR, Chandigarh & Published By Abhishek Publication, 57-59, Sector-17, Chandigarh
2. Essentials of Business Communication by Pal and Rorualling; Sultan Chand and Sons
3. The Essence of Effective Communication, Ludlow and Panthon; Prentice Hall of India
4. New Design English Grammar, Reading and Writing Skills by AL Kohli (Course A and course B), Kohli Publishers, 34 Industrial Area Phase-II, Chandigarh,
5. New Design English Reading and Advanced Writing Skills for Class XI and XII by MK Kohli and AL Kohli; Kohli Publishers, 34 Industrial Area Phase-II, Chandigarh,
6. A Practical English Grammar by Thomson and Marlinet
7. Spoken English by V Sasikumar and PV Dhamija; Tata McGraw Hill
8. English Conversation Practice by Grount Taylor; Tata McGraw Hill
9. Developing Communication Skills by Krishna Mohan and Meera Banerji; MacMillan India Ltd., Delhi
10. Business Correspondence and Report Writing by RC Sharma and Krishna Mohan; Tata McGraw Hill Publishing Company Ltd. New Delhi
11. Communication Skills by Ms R Datta Roy and KK Dhir; Vishal Publication, Jalandhar

### SUGGESTED DISTRIBUTION OF MARKS

Topic No.	Time Allotted (Hrs)	Marks Allotted (%)
1	14	30
2	4	10
3	8	10
4	4	10
5	6	10

6	4	10
7	8	20
<b>Total</b>	<b>48</b>	<b>100</b>

## 2.2 PRINTING DESIGN

L T P Cr  
- - 4 2

### RATIONALE

Diploma holders of textile design should be trained to create patterns for printed and woven fabrics. They will have to make designs for sarees, upholstery, dress material, towels etc. for different themes. In printing design, the students work for block, and roller printing designs.

### DETAILED CONTENTS

#### PRACTICAL EXERCISES

##### PART-A

Different themes are to be discussed in the class for each theme. The students have to submit 10 to 15 ideas in colour on rough sheets. One idea of selected and incorporated into a design with repeat on paper.

Select printing designs for the above fabrics with the following suggested themes:

- i) Geometrical patterns
- ii) Floral patterns
- iii) Traditional designs
- iv) Animated forms
- v) Monumental designs
- vi) Jewellery
- vii) Calligraphy
- viii) Fruits and vegetables

##### PART-B

World textile designs (Motifs, Colour Combination)

- i) Persian
- ii) Egypt
- iii) European
- iv) Chinese
- v) Japanese
- vi) Indonesian

#### Notes :

1. Mention which type of fabric is to be used in these countries.
2. Besides the suggested topics, one is free to select any other theme (topic) from day to day requirement.
3. In a semester, a student is required to make 3-5 paper designs and then the suggested paper designs have to be implemented in various styles on fabric.

## RECOMMENDED BOOKS

1. The Encyclopaedia of Patterns and Motifs by Dorothy Bosomworth; Studio, London
2. Designer's Guide to Colour 3 by Jeanne Allen; Chronicle Books San Francisco
3. Fabric Painting by Jill Kennedy and Jane Varsall; BT Batsford Ltd., London
4. Designer's Guide to Japanese Patterns by Janne Allen; Chronicle Books Sons Francisco
5. Handwoven Fabrics of India by Jarleen Dhamija and Jhyotindra Jain; Mapin Publishing Pvt. Ltd., Ahmedabad
6. Impression A Classic Collection of Textile Designs by K Prakash; The Design Paint B-7, Shiv Kripa Apartments, Old Nagaradas Road, Andheri (E), Bombay 400 069 (India)
7. Textile Designs Idea and Applications by Cloel Sokelov; PBC International Inc., New York
8. History of Textile Design by VA Shenai; Sevak Publications, Bombay 400 031
9. Fabric Art Heritage of India by Sukla Das; Abhinav Publications
10. Fabric Painting Made Easy by Nancy Ward; Craft Kaleidoscope Chilton Book Company, Radnor, Pennsylvania
11. Watson's Textile Design and Colour by Z Groscki; Universal Publishing Corporatrion, Bombay
12. Textile Design 200 Yearrs of Patterns for Printed Fabrics Arranged by Motifs, Colours, Period and Design by Mary Schoeser and Celia Rufey; Thomes and Hudson
13. Computer Colour 10,000 computer - Generated Process colours by Michael and Pat Rogondino; Angus and Robertson Publishers (Practical reference of colours Processed by Mixing)
14. Colour in Theory and Practice by HD Murray; Chapman and Hall Ltd., 37 Essex Street, WC 2, London 1952
15. An Introduction toColour by Ralph M Evans; New York John Wiley and Sons, Inc., London Champan and Hall Ltd.

16. Designer's Guide to Colour 1, 2, 3, 4, 5, 6 by Ikuyashi Shibukawa and Yum Takahashi; Chronicle Books San Francisco
17. Colour Harmony A guide to Creative Colour Combinations by Hideaki Chijiwa, Professor Musashino College of Art; India Book Distributors
18. Variety Fashion for Freedom by SA Huisain; Trends Today Bombay, India
19. The 4 - Colour Person by Dr Max Luscher; Simon and Schuster
20. The Colour Handbook how to Use Colour in Commerce and Industry by EP Danger; Gower Publishing Company, Old Post Road, Brookfield Vermont 05036, USA
21. Textile Fibres and Their Processings by KP Hess

## 2.3 BASIC DESIGN - II

L T P Cr  
- - 4 2

### RATIONALE

Diploma holder of Textile Design are supposed to know the concepts of construction of designs in various styles by using various techniques according to the suitability of various kinds of fabrics on paper with colours. Students are given understanding of all elements and concepts of design through various exercises. They are also taught use of different tools and art-materials

### DETAILED CONTENTS

Related Theory for Practical Exercises	Practical Exercises
1. Understanding of collage work and its use in making designs	1.1 Students will make various motifs with coloured papers/glazed papers or pictures on given suggested themes:  a) Composition of flowers b) Composition of animals c) Composition of birds d) Composition of flowers and birds
2. Understanding of various styles of designs:  - Natural (Realistic) - Conventional - Geometrical - Abstract - Traditional - Folk - Symbolic	2.1 Students will make motifs based on each style  2.2 Style on any theme by using poster colours as a basic medium  2.3 With the reference of above motifs samples of following arrangement on quarter size drawing sheet will be prepared by students  1) All over arrangement 2) Border arrangement 3) Centre arrangement 4) Corner arrangement
3. Change of one style of design to another	3.1 Students will practice to change designs from one style to another



Related Theory for Practical Exercises	Practical Exercises
4. Construction and placement of designs on various basis <ul style="list-style-type: none"> <li>- Drop designs (Unit repeating designs)</li> <li>- Half drop designs</li> <li>- Drop reverse designs</li> <li>- Sateen based arranged designs (regular and irregular sateen arrangements)</li> </ul>	4.1 Students will practice to make designs on various basis for various types of arrangements  4.2 Students will make 2 – 4 samples of designs on quarter sized drawing sheet on various arrangements with poster colours as a medium
5. Stripe and check designs	5.1 Students will make motifs of stripe and check designs suitable for printed and woven fabrics by using poster colours/sketch pens (inks) as medium
6. Enlargement and Reduction of Design	6.1 Students will draw motifs of various designs in enlarged and reduced sizes

Note: Students should be taken for field visits, museums, exhibitions, market, etc for clarifying the concepts and principles of this course as per requirement. There will be only practical paper in this subject. The knowledge attained by students regarding related theory for practical exercises will be evaluated in the form of viva-voce during practical examinations

### RECOMMENDED BOOKS

1. The Encyclopaedia of Patterns and Motifs by Dorothy Bosomworth; Studio London
2. Designer's Guide to Colour 3 by Jeanne Alen; Chronicle Books, San Francisco
3. Fabric Painting by Jill Kennedy and Jane Varsall; BT Batsford Ltd., London
4. Designer's Guide to Japanese Patterns by Jeanne Allen; Chronicle Books, San Francisco
5. Handwoven Fabrics of India by Jasleen Dhamija and Jyotindra Jain; Mapin Publishing Pvt. Ltd., Ahmedabad

6. Impression - A Classic Collection of Textile Design by K Prakash; The Design Point, B-7, Shiv Krupa Apartments, Old Nagaradas Road, Andheri (E) Bombay 400 069 (India)
7. Textile Designs- Idea and Applications by Joel Sokoelov; PBC International, Inc., New York
8. History of Textile Design by VA Shenai; Sevak Publications, Bombay 400 031
9. Fabric Art Heritage of India by Sukla Dass; Abhinav Publications
10. Fabric Painting Made Easy by Nancy Ward; Craft Kaleidoscope, Chilton Book Company, Radnor, Pennsylvania
11. Watson's Textile Design and Colour by Z Grosicki; Universal Publishing Corporation, Bombay (India)
12. Textile Designs- 200 years of Patterns for Printed Fabrics Arranged by Motifs, Colours, Period and Design by Susan Maller and Joost Elffers; Thames and Hudson
13. English and American Textiles from 1790 to the Present by Mary Schoeser and Celia Rufey; Thames and Hudson



## 2.4 COLOUR AND TEXTURE - II

L	T	P	Cr
-	-	4	2

### RATIONALE

Diploma holders of Textile Design should know the basics of colour theory, to enhance the beauty of design. Colour plays a vital role in design. With various mediums like coloured inks, crayon, water colours and poster colours etc, they are taught to create colour mixing, colour combinations and texture, creating various tonal effects

### DETAILED CONTENTS

#### PRACTICAL EXERCISES

1. Analogous Colour: Make a floral design showing analogous colour scheme
2. Methods of Modification of colours: Students will produce various colours by mixing different colours in different ratios e.g. yellow + blue = green
3. Colour Terminology (Colour Measurements): Express the following words in colour with illustration and notes:
  - a) Hue
  - b) Value
  - c) Intensity
4. Colour Schemes:
  - a) Contrast Colour Scheme: Introduction to various colour harmonies
  - b) Achromatic Colour Scheme: Arrange different geometrical shapes in 12x12" and paint it with achromatic colour
  - c) Prepare Monochromatic and Polychromatic colour scheme
  - d) Analogous colour scheme: Transparent and opaque colours; positive and negative
  - e) Complementary Colour Scheme: Make designs showing different sets of complementary colours
  - f) Split Complementary
  - g) Warm and cool colour

5. Make a colour chart showing as many as colours you can at different values and intensity
6. Instrumental colour measurement (may be demonstrated in institution/industry)

**Note:** Mixing and developing of different colour shades may be shown on computer so that the students are able to appreciate the importance of the subject

### RECOMMENDED BOOKS

1. Computer Colour-10,000 computer - Generated Process colours by Michael and Pat Rogondino; Angus and Robertson Publishers (Practical reference of colours Processed by Mixing)
2. Colour in Theory and Practice by HD Murray; Chapman and Hall Ltd., 37 Essex Street, WC 2, London 1952
3. An Introduction to Colour by Ralph M Evans; London Chapman and Hall Ltd.
4. Designer's Guide to Colour 1, 2, 3, 4, 5, 6 by Ikuyashi Shibukawa and Yum Takahashi; Chronicle Books, San Francisco
5. Colour Harmony- A guide to Creative Colour Combinations by Hideaki Chijiwa, Professor Musashino College of Art; India Book Distributors
6. Variety Fashion for Freedom by SA Huisain; Trends Today, Bombay, India
7. The 4 - Colour Person by Dr Max Luscher; Simon and Schuster
8. The Colour Handbook how to Use Colour in Commerce and Industry by EP Danger; Gower Publishing Company, Old Post Road, Brookfield Vermont 05036, USA

## 2.5 INTRODUCTION TO TEXTILE PROCESSES - II

L T P Cr  
3 - 4 5

### RATIONALE

The students of textile design are supposed to have introductory knowledge and skill related to various fibres, yarns and fabrics. Thus in this subject students learn different fibres, yarns and fabrics and their manufacturing techniques.

### DETAILED CONTENTS

Theory	Practical Exercises
1. Introduction to mixing and blending techniques (3 hrs)	1.1 Demonstration of various mixing/blending techniques employed during mill visit
2. Principles of blow room, carding, drawing/gilling, speed frame, ring frame and doubling (7 hrs)	2.1 Demonstration of different spinning processes by textile mill visit
3. Process flow of cotton, woolen, and worsted system of yarn manufacture (4 hrs)	3.1 Estimation of fibre diameter and yarn diameter by projection microscope 3.2 Demonstration of different processes by textile mill visit
4. Insertion of twist, S and Z twist, type of package in spinning and doubling (5 hrs)	4.1 Inspection of yarns for S and Z twist, hard twisted and soft twisted yarns
5. Knowledge of standard yarns, bulked yarn, core yarn, high tenacity yarn, lustre yarn, tyre cord yarn, carpet yarn, stretch yarn, twist-de-twist yarn, spiral yarn, grindle yarn, hosiery yarn (8 hrs)	5.1 Identification of different types of yarns studied in theory
6. Introduction to yarn packages (2 hrs)	6.1 Identify different types of yarn packages
7. Process flow of fabric manufacturing (7 hrs)	7.1 Demonstration of different processes of weaving through textile mill visit

8. Basic principles of weft and warp knitting and use of knitted fabrics (6 hrs)	8.1 Demonstration of process of knitting through textile mill visit
9. Process flow of wet processing (6 hrs)	9.1 Demonstration of dyeing and printing through textile mill visit

**Note:** The student may be exposed to different types of textile manufacturing processes through textile mill visit so that they are able to understand the subject properly.

### RECOMMENDED BOOKS

1. Textile Fibre by Ghol and Valanslk
2. Yarn to Fabric by Peter Schwarz
3. Fibre to Fabric by BP Corbman
4. Textile Fibres and their processings by KP Hess
5. Elementary Textile By Parul Bhatnagar; Abhishek Publisher, Chandigarh

### SUGGESTED DISTRIBUTION OF MARKS

Topic No.	Time Allotted (Hrs)	Marks Allotted (%)
1	3	6
2	7	14
3	4	8
4	5	10
5	8	16
6	2	4
7	7	15
8	6	13
9	6	14
<b>Total</b>	<b>48</b>	<b>100</b>

## 2.6 STRUCTURAL FABRIC DESIGN - II

L	T	P	Cr
3	-	4	5

### RATIONALE

The students of textile design are supposed to have knowledge and skill regarding various weaves and their construction. Hence, in this subject, students will learn different weaves, their method of employment to acquire competency for production of woven designs for different end uses.

### DETAILED CONTENTS

#### THEORY

1. Twills and their derivations (10 hrs)
  - Regular twills
  - Pointed twills
  - Broken twills
  - Combined twills
  - Fancy twills
  - Haringbone twill
2. Diamond weaves and their construction and diaper design (5 hrs)
3. Characteristics and uses of satin and sateen weaves, construction of regular and irregular satin and sateen weaves (7 hrs)
4. Crepe weaves and their method of construction (5 hrs)
5. Simple honey comb, brighton honey comb, huck-a-back and sponge weaves (6 hrs)
6. Mock leno weave and distorted thread effects (5 hrs)
7. Introduction to extra warp and weft. Various features of extra warp and extra weft fabrics. (10 hrs)

#### PRACTICAL EXERCISES

Following weaves to be constructed on Graph Paper and respective weaves analysis:

1. Pointed and diagonal twill weave, satin and sateen weaves (regular and



irregular)

2. Honey comb weave and brighton honey comb
3. Mock leno weave
4. Drafting and denting of warp for weaves studied in theory
5. Study of effect of structure of cloth by changing denting plan on graph paper
6. Study of effect of change in structure by varying lifting plan on graph paper

Note: Concept of different weaves should be made clear with the help of samples so that the students are able to identify different weaves in the fabric samples

### RECOMMENDED BOOKS

1. Grammer of Textile Design by Nisbet
2. Structural Fabric Design by Kliblby
3. Woven Structures and Design – Doris Goerner; British Textile Technology Group WIRA House, Leeds (UK)
4. Watson's Advance Textile Design
5. Watson's Textile Design and Colour
6. Simple Fabric Structure by SS Satsangi

### SUGGESTED DISTRIBUTION OF MARKS

Topic No.	Time Allotted (Hrs)	Marks Allotted (%)
1	10	22
2	5	10
3	7	14
4	5	10
5	6	12
6	5	10
7	10	22
<b>Total</b>	<b>48</b>	<b>100</b>

## 2.7 ART APPRECIATION IN INDIAN TRADITIONAL TEXTILE DESIGN - II

L T P Cr  
3 - 2 4

### RATIONALE

Diploma holders of textile design are supposed to know the historical backgrounds of Indian traditional textiles i.e. woven, printed and embroidered and their development of design, fabric uses and technical details. In practical, students learn to prepare replicas, for which they should visit art galleries and museums

### DETAILED CONTENTS

Theory	Practical Exercises
1. Study of resist dyed textiles with reference to : <ul style="list-style-type: none"> <li>- Historical significance</li> <li>- Dyeing techniques</li> <li>- Styles, colour and Motifs</li> <li>- Centres of Production</li> </ul> a) Pochampalli, Bandhani of Rajasthan and Gujrat Saree (20 hrs)	1.1 Replication of designs (2 to 4 designs each) 1.2 Assignments to students on designs 1.3 Presentation of assignments
2. Study of Woven textiles with reference to: <ul style="list-style-type: none"> <li>- Historical significance</li> <li>- Construction techniques(Including raw materials)</li> <li>- Styles, colour and motifs</li> <li>- Centres of production</li> </ul> (a) Brocades – Banaras, south Indian, Baluchar, Pathani (b) Tangail – Jamdani (c) Sarees of India - woven (28 hrs)	2.1 Replication of designs (2 to 4 designs each) 2.2 Assignments to students on designs 2.3 Presentation of assignments

Note: Students should be taken for field visits to various production centres to show the samples of the above mentioned textiles (embroidered, woven, printed and dyed) They may also be taken for field visits to various places like art galleries/ museums/religious places.

**Practically execute any one of the traditional designs in the contemporary form and prepare a file with replica or samples of the given topics**

### **RECOMMENDED BOOKS**

1. Folk Embroidery of Himachal Pradesh by Subhashini Aryan
2. Ikat Textile of India by Chetna Desai
3. Indian Painted Textiles by Kamla Dev Chattopadya
4. Carpets of India by Marq
5. Fabric Art heritage of India by Sukla Das
6. Hand Woven Fabric of India by Jasleen Dhamija
7. Indian Sari by Kamla Dev Chattapodya
8. Tie Dyed Textile of India by Veronica Murphy
9. Hand Woven Fabrics of India by Jasleen Dhamija
10. Traditional Indian Textiles by John Gillow
11. Textile Art of India by Kyoto Shoin
12. Hand Painting Textile For the Home by Kaszz Ball and Valcrie
13. Tie Dyed Textiles of India by Murphyd Crill
14. Masterpieces of Indian Textile by Rustam J Mehta
15. Kashmir Shawls by All India Handicrafts Board
16. Everything you ever wanted to know about Fabric Painting by Jill Kennedy and Jane Vourell
17. Saries of India – RTZ and Singh
18. Saries of Madhya Pradesh
19. Embroidered Textiles of India Calico Masam of India
20. Painted Textiles of India Calico Masam of India
21. Printed Textiles of India Calico Masam of India
22. Woven Textile of India Calico Masam of India
23. Costumes and Textiles of India by Parul Bhatnagar; Abhishek Publisher, Chandigarh
24. Fabric Painting by Jill Kennedy Verral

### **SUGGESTED DISTRIBUTION OF MARKS**

Topic No.	Time Allotted (Hrs)	Marks Allotted (%)
1	20	42
2	28	58
<b>Total</b>	<b>48</b>	<b>100</b>