

# Gujarat Technological University

## COURSE NAME :- TEXT GENERATION - I

### 1. RATIONALE

Major printing products consists text portion. Knowledge of text generation methods is therefore very essential. The study of this course will cover development of type setting methods (hot to cold). Correction marks, system configuration, fonts, file organization etc. which will help a student to develop his understanding in regards to prepress technology.

### 2 SCHEME OF TEACHING

| TOPIC<br>NO. | NAME OF TOPICS                  | NO. OF HOURS. |        |       |
|--------------|---------------------------------|---------------|--------|-------|
|              |                                 | LECT.         | PRACT. | TOTAL |
| 1.           | Manufacturing of hot metal type | 4             | 2      | 6     |
| 2.           | Proof Reading                   | 2             | 2      | 4     |
| 3.           | System Configuration            | 8             | 4      | 12    |
| 4.           | Operating system maintenance    | 2             | 4      | 6     |
| 5.           | Output devices                  | 3             | 6      | 9     |
| 6.           | File formats                    | 2             | 4      | 6     |
| 7.           | Fonts                           | 4             | 4      | 8     |
| 8.           | File organization               | 3             | 2      | 5     |
| Total        |                                 | 28            | 28     | 56    |

### 3. TECHNOLOGY RELATED SKILLS AND ENABLING OBJECTIVES

TRS-1. Differentiate various typeographic principles. (Topic 1)

EO's

1.1 Know the manufacturing of type

1.2 Know the basic of type & type font

1.3 Compare cold composition & hot metal composition

1.4 Define spacing & justification

TRS-2. Correct a given job, using standard proof Reading marks.

EO's

2.1 Understand proof reading signs

2.2 Appreciate Responsibilities of proof reader

2.3 Know the editing procedure

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TRS-3. Use of computer and operating system in text generation (Topic 3,4)

EO's

3.1 Know system configuration

3.2 Understand system software (DOS)

3.3 Install antivirus and application softwares (Page-maker)

TRS-4. Differentiate various output devices (Topic 5)

EO's

4.1 List various output devices

4.2 Select appropriate output device for given text

4.3 State limitation of each output device

TRS-5. Select appropriate font and file format (Topic 6,7,8)

EO's

5.1 Appreciate the role of font and digital font

5.2 Appreciate the need of file format method.

5.3 Operate TIFF bitmap graphics, etc.

5.4 Identify the need of economy in files organisation

## 4. COMMUNICATION SKILLS

1. Explain salient features of text generation.
2. Draw out relationship between hot metal and cold metal composition.
3. Describe the complete process of text generation techniques.
4. Write the use of output devices.
5. Prepare methods of various file organisation

## 5. TOPICS AND SUB TOPICS

### 1 MANUFACTURING OF HOT METAL TYPE

- 1.1 Cold metal composition
- 1.2 Historical background and development of hot metal composition process in brief.
- 1.3 Stages of manufacturing type
- 1.4 Type and type format
- 1.5 Spacing
- 1.6 Justification

### 2 PROOF READING

- 2.1 Define the process of proof reading
- 2.2 Determine the duties of a proof reader
- 2.3 Demonstrate proof readers signs (marks)

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## **3 SYSTEM CONFIGURATION**

- 3.1 Parts of a Computer
- 3.2 Processor
- 3.3 RAM
- 3.4 Hard drive
- 3.5 ROM
- 3.6 Mother board
- 3.7 Input/output Devices
- 3.8 Modem
- 3.9 Network
- 3.10 System software(DOS)

## **4 OPERATING SYSTEM MAINTENANCE**

- 4.1 Safe method of operating computer
- 4.2 Installation of antivirus utility
- 4.3 Application software (PAGEMAKER VER.3.0)

## **5 OUTPUT DEVICES**

- 5.1 RIP (Raster Image Processor)
- 5.2 Postscript
- 5.3 Printers
- 5.4 Phototype cutting

## **6 FILE FORMATS**

- 6.1 Object-oriented graphics
- 6.2 Bitmapped graphic
- 6.3 Tagged Image file format(TIFF)
- 6.4 Encapsulated postscript

## **7 FONTS**

- 7.1 Types style development
- 7.2 Digital fonts
- 7.3 Suitability of type faces for various printing products.

## **8 FILES ORGANISATION**

- 8.1 System folder
- 8.2 Organizing project work
- 8.3 Economics the files
- 8.4 File format

## **6. LABORATORY EXPERIENCES**

1. Acquire knowledge of hot metal and cold metal technique.
2. Compose given job of text matter.
3. Correct the composed job using proof reading marks.
4. Acquire the knowledge of computer in text generation.
5. Prepare a utility list of hardware parts of computers and their roll.
6. Perform installation of various software (application and system)

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7. Study various output devices.
8. Perform output on substrate (Butter paper, etc.)
9. Know various fonts and object oriented graphics.
10. Perform various methods of file organization.

## 7. REFERENCES

- |   |                          |
|---|--------------------------|
| 1. Art and copy preparation                       | G.A.T.F                  |
| 2. Typography                                     | C.S.Mishra               |
| 3. P.C.Software                                   | Taxali                   |
| 4. Handbook for printing and packaging technology | Bishwanath & Chakravarti |
| 5. Hand book on D.T.P                             | Anupam Prakashan         |
| 6. Desk Top Publishing Systems                    | Joost list               |
| 7. Desk top publishing                            | Kirby, Welson, Davies    |
| 8. Desk top publishing skill                      | Janues Felics & Ted Nace |