



# GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma in Engineering

Level: Diploma

Branch: Printing Technology

Course / Subject Code :DI02C58011(Only for C to D Students)

Course / Subject Name : Desk Top Publishing

w. e. f. Academic Year:	2024-25
Semester:	2 <sup>nd</sup>
Category of the Course:	ESC

<b>Prerequisite:</b>	<b>Basic knowledge of computers</b>
<b>Rationale:</b>	Modern printing uses desktop publishing extensively for wide usage and applications. Application software like CorelDraw and Illustrator are used for designing work and efficient working of this absolutely essential to work in the printing industry. This software is also helpful to students for making carrier in publishing, graphic design, advertising, printing, and reprographics companies as well establish their own enterprise.

### Course Outcome:

After Completion of the Course, Student will able to:

No	Course Outcomes	RBT Level
01	Install and set up the operating system and related software on a computer.	R, A, E
02	Create various designs using CorelDraw software.	R, A, E
03	Use PageMaker software to design publication work.	R, A, E
04	Create various designs using Illustrator software.	R, A, E

\*Revised Bloom's Taxonomy (RBT)

### Teaching and Examination Scheme:

Teaching Scheme (in Hours)			Total Credits L+T+ (PR/2)	Assessment Pattern and Marks				Total Marks
L	T	PR	C	Theory		Tutorial / Practical		
				ESE (E)	PA / CA (M)	PA/CA (I)	ESE (V)	
0	0	6	3	00	00	20	30	50



# GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma in Engineering

Level: Diploma

Branch: Printing Technology

Course / Subject Code : DI02058011

Course / Subject Name : Desk Top Publishing

## Course Content:

Unit No.	Content	No. of Hours	% of Weightage
<b>Unit – I DTP Software</b>	1.1 Introduction of DTP software 1.2 Capabilities of DTP software like handling text, generation of graphics, editing of images, outputting 1.3 User of Desktop Publishing Systems 1.4 Equipment required for DTP software like Hardware, Operating System, printer, scanner 1.5 Different software like word processing software, spreadsheet application, Graphic software: object-oriented software, paint oriented software, layout software 1.6 Features of various DTP software 1.7 Some do's and don'ts while working	12	15
<b>Unit – II CorelDRAW</b>	2.1 Configure Application software – CorelDraw 2.2 Identify interface, palettes, and toolbars. 2.3 Draw an illustration/ sketch using different tools. 2.4 Design the various line work objects. 2.5 Modify an object 2.6 Fill different textures, color, picture 2.7 Apply special effects 2.8 Handling various text and apply different formatting 2.9 Place, Import, and export various contents 2.10 Set the file for printing	12	35
<b>Unit – III Adobe PageMaker</b>	3.1 Introduction and features of PageMaker software 3.2 Requisites for creating a new document 3.3 Creating master page 3.4 Using rulers and guidelines 3.5 Entering texts, formatting type, changing font families, character specification, editing text 3.6 Adding graphics, text-wrap, adding color 3.7 Create a Table by using Table Editor. 3.8 Use color palette and create, edit, and remove colors from the palette. 3.9 Insert an importable file within the document and also establish a link. 3.10 Insert/ draw graphics, crop it and wrap text around graphics.	06	15



# GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma in Engineering

Level: Diploma

Branch: Printing Technology

Course / Subject Code : DI02058011

Course / Subject Name : Desk Top Publishing

	3.11 Create a book containing a table of contents, index, and the page number. 3.12 Print the publication by choosing odd pages, even pages, proof, reverse printing, composite colour, 4 colour separation using a laser printer		
<b>Unit- IV Adobe Illustrator</b>	4.1 Introduction and features of an illustrator software 4.2 Vectorize the raster image 4.3 Identify interface, palettes, and toolbars. 4.4 Draw an illustration/ sketch using different tools. 4.5 Blend objects 4.6 Stylize paths with the paintbrush 4.7 Rulers and guides 4.8 Working with type and selection tool 4.9 Design different items like, visiting card, logo, advertisement, invitation card, certificate etc.	04	35
	<b>Total</b>	<b>84</b>	<b>100</b>

## Suggested Specification Table with Marks (Theory):

Distribution of Theory Marks (in %)					
R Level	U Level	A Level	N Level	E Level	C Level
NA	NA	NA	NA	NA	NA

Where R: Remember; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create (as per Revised Bloom's Taxonomy)

## References/Suggested Learning Resources:

### (a) Books:

1. Graphic Design: A Concise History - Hollis, Richard - Newyork: Thames and Hudson,1994
2. Graphic Design: A New History - Eskilson, Stephen - New Haven: Yale UP 2007. Print ISBN: 9780300172607
3. Elements and Principles of Design: Tools for digital imagery, art, and design - Zena O'Connor - Sydney: Design Research Associates 2014 ASIN :B00K8G3IU0

### (b) Open source software and website:

1. Align text in various shapes: <https://www.youtube.com/watch?v=uH04AMidp7c>
2. Apply 3D effects on text: <https://www.youtube.com/watch?v=LegtbMgj-yY>
3. Create custom type using DTP Software: [https://www.youtube.com/watch?v=yH2L\\_d3E-tk](https://www.youtube.com/watch?v=yH2L_d3E-tk)
4. Use step and repeat options to create a design: <https://www.youtube.com/watch?v=eUdw9-8wctc>
5. Apply text masking effect in CorelDraw: <https://www.youtube.com/watch?v=i8oxoJz43Eg>



# GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma in Engineering

Level: Diploma

Branch: Printing Technology

Course / Subject Code : DI02058011

Course / Subject Name : Desk Top Publishing

6. Use power clip command for various designs:  
<https://www.youtube.com/watch?v=JrdDCCsRghU>
7. Use print and merge command for variable data printing:  
<https://www.youtube.com/watch?v=MeSJcKhd7vw&t=253s>
8. Prepare alphabetic logo using Illustrator: <https://www.youtube.com/watch?v=ymBosZVeRc8>
9. Apply various effect to photos using Illustrator:  
<https://www.youtube.com/watch?v=IL2XEchbMXE>
10. Apply texture effects using Illustrator: [https://www.youtube.com/watch?v=0oCMw1qd\\_tE](https://www.youtube.com/watch?v=0oCMw1qd_tE)
11. Create flat illustration using Illustrator: <https://www.youtube.com/watch?v=AUKW2id17CQ>

## Suggested Course Practical List:

S. No.	Practical Outcomes (PrOs)	Unit No.	Approx. Hrs. required
1	Identify various parts of computers and peripherals	I	02
2	Install windows / linux operating system	I	02
3	Use various tools / utilities available in accessories of windows / linux OS	I	02
4	Install printer, scanner, web cam, projector with the computer.	I	02
5	Create text document incorporating different formatting features, inserting images and tables as per given sample	I	02
6	Create a text document setting page layout features, backgrounds, shapes and smart arts as per given sample.	I	02
7	Create spreadsheet, analyze data using formulas and functions and present it through charts.	I	02
8	Create a professional presentation incorporating various formatting features, inserting media and action buttons	I	02
9	Create an online form for registration of students for any activity and download its response	I	02
10	Align text in various shapes	II	02
11	Apply 3D effects on text	II	02
12	Create custom type using DTP Software	II	02
13	Use step and repeat options to create a design	II	02
14	Apply text masking effect in CorelDraw	II	02
15	Use power clip command for various design	II	02
16	Prepare a banner design using CorelDraw	II	02
17	Create Greeting Card using CorelDraw	II	02



# GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma in Engineering

Level: Diploma

Branch: Printing Technology

Course / Subject Code : DI02058011

Course / Subject Name : Desk Top Publishing

S. No.	Practical Outcomes (PrOs)	Unit No.	Approx. Hrs. required
18	Create poster using CorelDraw		
19	Use print and merge command for variable data printing	II	02
20	Prepare 4-page layout of the book in adobe PageMaker	III	02
21	Prepare advertisement using Adobe PageMaker	III	02
22	Create a master page in adobe PageMaker	III	02
23	Create 16-page imposition scheme in Adobe PageMaker	III	06
24	Prepare newspaper design showing indentation and multi-column work setting	III	06
25	Insert pages, illustrations, links, objects, header and footer, clipart, text, and symbols.	III	02
26	Prepare student ID card using Illustrator	IV	02
27	Create business card using Illustrator	IV	02
28	Prepare alphabetic logo using Illustrator	IV	02
29	Prepare webinar invitation card using Illustrator	IV	02
30	Prepare advertisement using Illustrator	IV	02
31	Design a certificate for the event using Illustrator	IV	02
32	Design application form using Illustrator	IV	02
33	Prepare wedding card using Illustrator	IV	02
34	Apply the various effects to photos using Illustrator	IV	02
35	Apply texture effects using Illustrator	IV	02
36	Create a flat illustration using Illustrator	IV	02
37	Apply different marks like bleed marks, crop marks, folding marks, registration marks to design	IV	02
38	Design label for a specific product	IV	02
39	Create a logo of your initial	IV	02
40	Prepare RTI carton using Illustrator	IV	02
41	Prepare calendar using Illustrator	IV	02
42	Prepare bookmark using Illustrator	IV	02
	<b>Minimum Practical Hours</b>		<b>84</b>

**Major equipment/ Instruments required**



# GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma in Engineering

Level: Diploma

Branch: Printing Technology

Course / Subject Code : DI02058011

Course / Subject Name : Desk Top Publishing

S. No.	Equipment Name with Broad Specifications	PrO. No.
1	<b>Computers</b> Windows 11 or Windows 10, 64-bit, with latest Updates Intel Core i3/5/7/9 or AMD Ryzen 3/5/7/9/Thread ripper, EPYC Open CL 1.2-enabled video card with 3+ GB VRAM 8+ GB or more recommended 512 GB or more hard disk space 1280 x 720 screen resolution at 100% (96 dpi) DVD drive optional (for box installation); Internet nodes	1 to 28
2	<b>Color printer</b> A3 Color Laser Printer, Copy and Scan Print speed up to 30 ppm (black), 50 ppm (color) USB 2.0, Ethernet, Hardware Integration Pocket <b>Black and white printer</b> Laser printer Multi-function Monochrome Black, toner cartridge Copy and scan print speed up to 30 ppm (black) USB 2.0, Ethernet, Hardware Integration Pocket	1 to 28
3	CorelDRAW Graphics Suite 2020 or above	1 to 12
4	Illustrator Software version CC2020	12 to 28
5	Adobe PageMaker 7.0 version	14 to 24

### Suggested Project List: -

1. Visit a nearby graphic studio and prepare a report on it.
2. Visit any well-known graphic designer and discuss skill requirements for designing and prepare a report.
3. Collect the data on trends of modern designing and prepare a report on it.



# GUJARAT TECHNOLOGICAL UNIVERSITY

**Program Name: Diploma in Engineering**

**Level: Diploma**

**Branch: Printing Technology**

**Course / Subject Code : DI02058011**

**Course / Subject Name : Desk Top Publishing**

---

4. Collect 10 samples of advertisement and prepare a report on it.
5. Collect information on newly launched features in various DTP software.
6. Prepare a report on technical specifications required for computer and laptop for 2021 versions.
7. Correlate different graphic design principles and prepare a report on them.
8. Identify designing defects in various printed products and give a solution for them.
9. Identify the various ways of doing the same thing in CorelDraw, Illustrator, and PageMaker and prepare a report.
10. Prepare a brochure on the know your river concept and circulate it on various social sites.
11. Prepare a brochure on climate change and put it on the college notice board.
12. Prepare a report on sustainability in designing

## **Suggested Activities for Students:**

Students should perform following activities in group and prepare reports of about 5 pages for each activity. They should also collect/record physical evidences for their (student's) portfolio which may be useful for their placement interviews:

1. Use different online free software
2. like Canva, greeting island to make different occasions greeting cards.
3. Prepare one YouTube post of anyone features of Corel Draw software.
4. Prepare one Instagram post of any one feature of Illustrator software.
5. Collect different good designs from well-known magazines.
6. Prepare certificate for the college-level event.
7. Prepare a newsletter for the institute.
8. Design different stationery for nearby NGO
9. Design different brochures on different state government and central government schemes and circulate by various social sites.

\* \* \* \* \*