GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma in Engineering
Level: Diploma
Branch: Computer Aided Costume Design and Dress Making
Course / Subject Code: DI01051051
Course / Subject Name: Computer Application in Fashion Design

w. e. f. Academic Year:	**2024 - 2025**
Semester:	1St
Category of the Course:	ESC - 02

Prerequisite:	**Required basic computer knowledge and skills.**
Rationale:	This course will provide knowledge related to hands on experience on MS office, Internet as well as graphic design software. The course is aimed in developing competencies for different application software used for office automation and improve day-to day problem-solving skills using online resources for creating business documents, data analysis, and graphical representations. This course will also give knowledge & practice of the software viz. CorelDraw, Photoshop and AutoCAD are used for designing purpose and its real-life application in various fields of textile & garment designing. A course is designed to provide the students with a fundamental understanding of a range of computer graphics software applications.

Course Outcome:
After Completion of the Course, Student will able to:

No	Course Outcomes	RBT Level
01	Use tools and commands for word-processing, data analysis and presentation.	A
02	Use internet effectively to access relevant information.	A
03	Design 2D drawings and eight head theory using AutoCAD software.	C
04	Create a motif and its repeat using various tools of Corel Draw software.	C
05	Modify pictures through Adobe Photoshop software.	C

*Revised Bloom's Taxonomy (RBT)

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Teaching and Examination Scheme:

Teaching Scheme (in Hours)			Total Credits L+T+ (PR/2)	Assessment Pattern and Marks				Total Marks
				Theory		Tutorial / Practical		
L	**T**	**PR**	**C**	ESE (E)	PA / CA (M)	PA/CA (I)	ESE (V)	
0	0	6	3	0	0	50	50	100

Course Content: -----

Suggested Specification Table with Marks (Theory):

Distribution of Theory Marks (in %)					
R Level	**U Level**	**A Level**	**N Level**	**E Level**	**C Level**
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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. Computer Application (Ms-Office) Paperback – 1 January 2023 by Dr.S.B.Kishor (Author), Published by   Das Ganu Prakashan (1 January 2023) (ISBN-10: 9381660670).
2. Microsoft Word, Excel, and PowerPoint: Just for Beginners Paperback – Import, 29 January 2015 by Dorothy House (Author), Published by   ,Outskirts Press (29 January 2015) (ISBN-10 : 1478736755).
3. AutoCAD 2020 Beginning and Intermediate by Munir Hamad
    Published by Mercury Learning & Information (April 19, 2019) (ISBN-13: 978-1683923916).
4. Corel Draw Training Guide Paperback – 1 January 2018 by Satish Jain,
    Published by BPB; First edition (1 January 2018) (ISBN-13: 978-9387284005).
5. Photoshop CC: Visual Quick Start Guide by Elaine Weismann
    Published by Peach pit Press; (ISBN-13: 978-0134308890 ISBN-10: 0134308891).
6. Adobe Photoshop: A Complete Course and Compendium of Features by Stephen
    Published by Vaskevitch Rocky Nook; Illustrated edition (June 2, 2020) (ISBN-13: 978-1681985152 ISBN-10: 1681985152).

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(b) Open-source software and website:

- MS Office Software
- https://youtu.be/ezeM41vMXDY
- https://youtu.be/5wM0GCEFCic
- https://youtu.be/xsR1szLjvRM
- AutoCAD software
- https://youtu.be/pvKVy-eMDYc
- https://youtu.be/hu7tVlS3vls
- Corel Draw software
- www.softwaretrainingtutorials.com/coreldraw
- https://youtu.be/FJYgNUYUvZc
- http://www.insidegraphics.com/corel_draw
- Photoshop Software
- https://youtu.be/ZByhs9mDtDg?list=PLW-zSkCnZ-gA5Jn6gZtUa6-aG0OoRZyb6
- https://youtu.be/dAm08pDLBvI

Suggested Course Practical List:

Sr. No.	Practical Outcome	No. of Hours	% of Weightage
1.	**MS OFFICE –**	20	20
	Create a text document incorporating different formatting features, inserting images and tables as per given sample		
	Create a text document setting page layout features, backgrounds, shapes and smart arts as per given sample.		
	Use mail merge feature for sending invitation letter for expert lecture to 10 industries.		
	Create spreadsheet, analyse data using formulas and functions and present it through charts.		
	Create a professional presentation incorporating various formatting features, inserting media and action buttons.		
2.	**Introduction to Internet –**	10	10
	Create an E-Mail account for sending and receiving mail.		
	Create an online form for registration of students (for any activity) and download its response.		
3.	**AutoCAD –**	20	25
	Create 2D drawing using all tool of AutoCAD.		
	Draw Real figure (8 ½ head) of female using AutoCAD software.		
4.	**Corel Draw –**	20	25

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	Create any 2 different types of Motifs.		
	Use above motifs and create following repeat. • Full drop repeats • Half drop repeats • Brick repeat • Diamond repeat • Stripe repeat		
	Design any 3 Flat garment.		
5.	**Photoshop –**	20	20
	Create any one design using Photoshop software.		
	Edit and create design using Photoshop software.		
	Total	**90**	**100**

List of Laboratory/Learning Resources Required:

Computer System and Printer, AutoCAD software, CorelDraw Software and Adobe Photoshop

Suggested Project List:
1. Create mark sheet, bills, resume etc.
2. Create flat garment using 2D shape through AutoCAD software.
3. Create garment through design repeat Full drop, half drop, Brick, Diamond, Random and Stripe design repeat using Corel Draw software.
4. Create decorative weaves on fabric using Corel Draw software.
5. Apply texture on any 05-garment using Adobe Photoshop software.

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