

EVALUATION SCHEME DETAIL SYLLABUS I & II SEMESTER DIPLOMA IN GARMENT TECHNOLOGY





(STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME) INSTITUTE OF RESEARCH DEVELOPMENT & TRAINING UTTARAKHAND BOARD OF TECHNICAL EDUCATION



BRANCH NAME: GARMENT TECHNOLOGY

BRANCH CODE: 11

(w.e.f. 2025-26)

SEMESTER - I

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Course	THE CONTRACTOR	LeL	Spo	ב ב	Neek A	Internal	rnal		Externa]	rnal		Total	Credit
Code	Course Line		E		1040	TH	PR	TH	Н	PR	~	Marks Points	Points
		Н	-	-	10121	MM	MM	MM	Hrs	MM	Hrs		
ı	English &Communication Skills-I*	2	1	2	S	50	25	50	2:30	20	3:00	145	2
1111002	Textile Science-I	3	1	3	9	50	30	50	2:30	50	3:00	180	3
1111003	Fashion Illustration-I**	,	ı	4	4	ı	06	ı	ı	50	3:00	140	ဧ
111004	Basic Design**		ı	4	4	ı	06		ı	50	3:00	140	8
111005	Garment Fabrication -I		1	S	v	ı	06		ı	50	3:00	140	3
111006	Basic Pattern Making -I	3	1	3	9	50	30	50	2:30	30	3:00	160	2
101007	Basic Computer Education-I***	-	ı	3	3	1	20	-	-	25	3:00	45	1
111051	General Proficiency#	-	ı	3	3	ı	25	-	-	-	-	25	1
111052	Industrial Exposure (Assessment at Inst. Level)+	-	ı	-	ı	1	25	-	-	-	-	25	1
	Total	8	1	27	36	150	425	150	ı	275	-	1000	19

^{*}Common with other Engineering diploma programmes.

#General Proficiency will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, NCC, NSS, cultural activities and discipline etc.

+ Industrial visit compulsory at minimum 2 industry or department.

Note: 1. Each period will be of 60 minutes. 2. Each session will be of sixteen weeks. 3. Effective teaching will be at least 12.5 weeks.

^{**}Common with FD.*** Common with FD & TD



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SEMESTER - II

					-		EVALI	JATIO	EVALUATION SCHEME	HEME			
Course	,	Feri	ods I	Feriods Fer Week	eek –	Internal	nal		External	rnal		Total	Credit
Code	Course Title		<u> </u>		1070	TH	PR	TH	H	PR	~	Marks	Marks Points
		ПП	_		10tal	MM	MM	MM	Hrs	MM	Hrs		
ı	English And Communication Skills-II*	2		2	S.	50	25	50	2:30	25	3:00	150	2
112002	Textile Science -II	ω	1	2	w	50	40	50	2:30	40	3:00	180	8
112003	Fashion Illustration - II**	,	,	4	4	,	09	ı	ı	50	3:00	110	8
112004	Traditional Embroidery	ı	1	5	v	,	09	ı	1	50	3:00	110	2
112005	Garment Fabrication -II	ı	1	5	v	,	09	ı	ı	50	3:00	110	2
112006	112006 Basic Pattern Making - II	m	,	8	9	50	40	50	2:30	40	3:00	180	3
102007	Basic Computer Education II***	1	,	3	8	,	09	1	ı	50	3:00	110	2
112051	General Proficiency#		,	3	8	,	25	ı	ı	ı	ı	25	-
112052	Industrial Exposure (Assessment at Inst. Level)+	1	-	1	-	ı	25	1	-	-	ı	25	1
	Total	8	1	27	36	150	395	150	-	305	-	1000	19

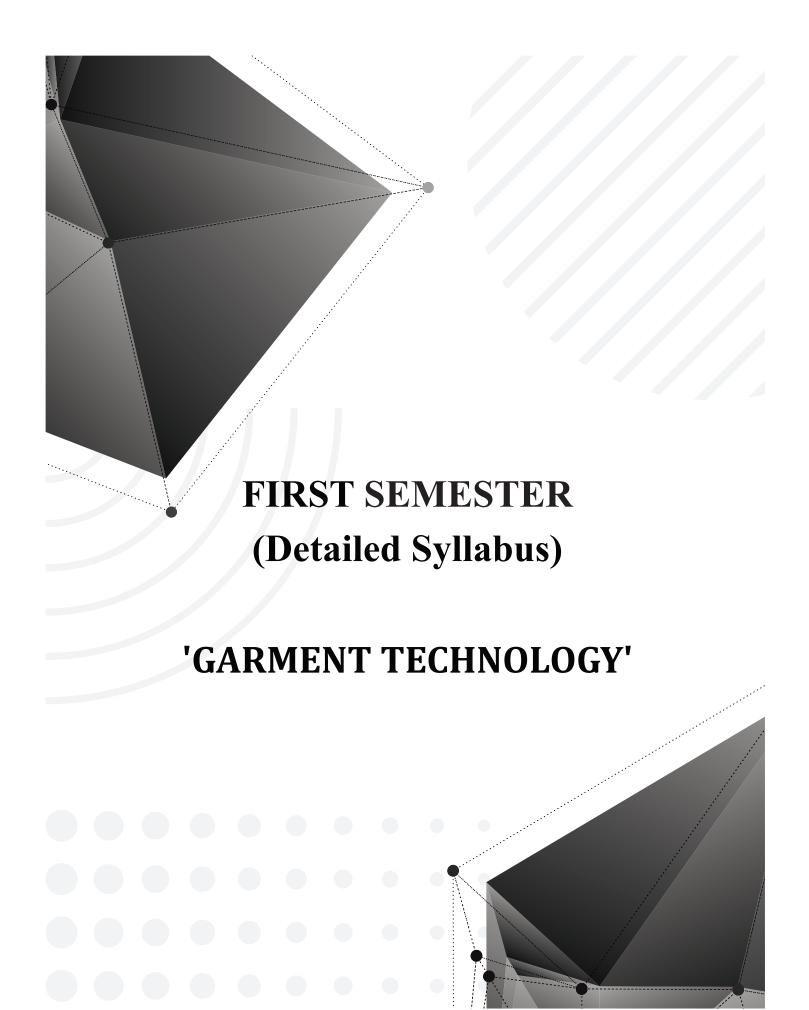
^{*} Common with other Engineering diploma programmes.

#General Proficiency will comprise of various co-curricular activities like games, hobby clubs, seminars, declamation contests, extension lectures, NCC, NSS, cultural activities and discipline etc.

+ Industrial visit compulsory at minimum 2 industry or department.

Note: 1. Each period will be of 60 minutes. 2. Each session will be of sixteen weeks. 3. Effective teaching will be at least 12.5 weeks.

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ENGLISH AND COMMUNICATION SKILLS-I

Subject Code: No. of Credits: 2 (TH:2,T:1,P:2)

I. RATIONALE:

In the era of globalization, the most commonly used medium to express oneself is the English language, especially in the industry, where almost all the service manuals, installation and commissioning manuals of the various equipment are in English and the technologist has to interpret them correctly. English is the dire need, not only for the Indian industry, but also worldwide, where the diploma engineers have the opportunity to take up jobs. Therefore, the basic English reading and writing skills have become almost mandatory for employment in the industry. Hence, English language has become quite a necessity for engineering diploma students. This course is therefore designed to help the students to learn the correct grammatical structures and use the relevant vocabulary while reading and writing.

II. INDUSTRY/EMPLOYER EXPECTED OUTCOME:

The aim of this course is to help the student to achieve the following industry identified outcome through various learning experiences: "Communicate in written and oral form of English effectively at workplace".

III. COURSE LEVEL LEARNING OUTCOMES (COS) FOR ENGLISH AND COMMUNICATION SKILLS-I:

Students will be able to achieve & demonstrate the following COs on completion of course based learning:

- CO1 Develop an understanding of Basic English grammar and sentence structure.
- CO2- Enhance vocabulary and language proficiency to accurately comprehend and interpret professional and technical texts.
- CO3- Develop skills to create impactful speeches utilizing persuasive language.
- CO4 Use relevant words in writing and delivering short and long speeches.
- CO5- Deliver effective presentations in English using appropriate body language.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT FOR ENGLISH AND COMMUNICATION SKILLS-I

Sr. No	Theory Lear Outcomes (T aligned to (LOs)	Learning content mapped with Theory Learning Outcomes (TLOs) and COs.	Suggested Learning Pedagogies.	No of Lecture	CO
	Writing Skills (Theory) 1a. Use relevant articles in constructing sentences. 1b. Apply prepositions to construct meaningful sentences. 1c. Identify Conjunctions to connect phrases and clauses in the specified sentences. 1d. Use correct form of tenses in given situation. 1e. Identify the active and passive voice from the specified passage/list. 1f. Apply direct and indirect speech for the given situation	Speaking Skills (Practical) 1g. Formulate grammaticall y correct sentences for the specified situation. 1h. Use relevant Prepositions for the situation mentioned. 1i. Apply relevant conjunctions to use idiomatic language for the given situation. 1j. Apply the relevant voice in formal communicati on for the given passage. 1k. Use relevant narrations for the given situation.	Indirect and Indirect Speech. 1.6 Tenses: Present Tense (Simple, Continuous, Perfect) 1.6.1 Past Tense (Simple, Continuous,	Chalk and board, Improved lecture, Tutorial, Assignment and Demonstration	11	CO 1

2	2a. Answer the given questions of the specified passage. 2b. Formulate sentences using the given new words. 2c. Describe in a paragraph about the given object / product. 2d. Use correct syntax to construct meaningful sentences for the given situation. 2e. Answer the questions on the given unseen passage. 2f. Improve language skills & expand vocabulary	2f. Pronounce the words correctly in the given passage. 2g. Give oral instructions with correct pronunciation and intonation for the given situation. 2h. Answer the questions orally on the given unseen passage with correct pronunciation.	UNIT – II 2.1 Comprehension Passages Unseen passages from different sources. 2.2 Translation Translate- Hindi to English (Vice-Versa)	Chalk and board, Improved lecture, Tutorial, Assignment and Demonstration	8	CO 2
3	3a. Differentiate the given types of paragraphs with justification. 3b. Formulate a paragraph in words with synchronized sentence structure on the given situation/topic. 3c. Explain the theme of given paragraph precisely.	3d. Summarize the given paragraph with correct pronunciation and intonation. 3e. Take part in debates with correct pronunciation, int onation and using verbal and nonverbal.	UNIT – III Paragraph and Dialogue Writing 3.1 Paragraph writing 3.2 Types of paragraphs i. Technical ii. Descriptive iii. Narrative iv. Compare and contrast 3.3 Dialogue writing i. Greetings ii. Development of dialogue iii. Closing sentence	Chalk and board, Improved lecture, Tutorial, Assignment and Demonstra- tion	8	CO 3

4	4a. Use relevant words to correctly express for the given themes/situation. 4b. Use correct synonyms and Antonyms to write paragraphs forgiven themes/situations. 4c. Use the correct collocations in the given sentences. 4d. Use the correct prefix and suffix in the given Sentences.	4e. Speaking specified formal situations with correct pronunciation. 4f. Speak in specified informal situations with correct Pronunciation.	Unit–IV Vocabulary Building 4.1. Words often confused 4.2. Collocations 4.3. Prefix and suffix 4.4. Synonyms and Antonyms	Chalk and board, Improved lecture, Tutorial, Assignment and Demonstra- tion	10	CO 4
5	5a. Cultivate / Develop habit of being presentable 5b. Formulate speeches for occasions 5c. Prepare power point presentation 5d. Use appropriate body language for effective communication	5e. Undertake public speaking with correct pronunciation, intonation and using verbal and non-verbal gestures for the given theme / situation. 5f. Give extempore talks with correct pronunciation, intonation and using verbal and non-verbal gestures for the given theme / situation.	Unit- V Presentation Skills 5.1 Dressing & Grooming: i. Dressing for the occasion ii. Proper grooming 5.2 Speech Writing: i. Situation ii. Salutations iii. Introduction of the topic iv. Description/Bod v. Conclusion 5.3 Power Point Presentation: i. Layout ii. Font size iii.Color combination 5.4 Kinesics: i Facial expressions ii Eye contact iii Postures iv Gestures	Chalk and board, Improved lecture, Tutorial, Assignment and Demonstra- tion	11	CO 5

V. LABORATORY LEARNING OUTCOME (LLO) ENGLISH AND COMMUNICATION SKILLS-I:

Sr. No.	Practical / Laboratory Learning Outcome (LLO)	Laboratory Experiment / Practical Titles	No. of Hrs.	Relevant Cos
1	LLO 1.1 Use transcription in correct	Write 20 words using phonetic	4	CO1
	form	transcription		
	LLO 1.2 Learn to differentiate vowel,			
	diphthong and consonants			
2	LLO 2.1 Learn correct pronunciation	Practice pronunciation as per	4	CO1
	by using headphones in language lab	RP using language lab		
3	LLO 3.1 Articulate ideas clearly and	a. Write two paragraphs of 75	4	CO2
	effectively.	words each		
	LLO 3.2 Improve grammar,	b. Extempore		
	punctuation			
4	LLO 4.1 Promote the development of	Enact Role Plays as per	4	CO5
	effective communication skills	situation and context		
	LLO 4.2 Improve non –verbal			
	communication Skills			
	LLO 4.3 Enhance interpersonal skills			
	LLO 4.4 Build confidence			
5	LLO 5.1 Acquire the ability to convey	Describe any three technical	4	CO4
	complex ideas in clear and concise	objects using correct grammar		
	manner			
	LLO 5.2 Expand technical vocabulary			
	LLO 5.3 Enhance the written			
	communication Skills			
6	LLO 6.1 Notice and articulate specific	Describe a given picture (Any	4	CO4
	elements, colors, shapes, & other	Two)		
	visual aids			
	LLO 6.2 Express observations &			
	interpretations clearly and concisely			
	LLO 6.3 Enhance vocabulary			
7	LLO 7.1 Express information in	Introduce oneself and others	4	CO3
	coherent and engaging manner			
	LLO 7.2 Build confidence			
8	LLO 8.1 Build confidence in public	Deliver oral presentations using	4	CO3
	speaking	correct grammar and		
	LLO 8.2 Enhance the skills in	appropriate body language		
	planning and prioritization			

VI. SUGGESTIONS OF WEIGHTAGE TO LEARNING FOR ASSESSMENT PURPOSE:

Sr. No.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %
1	Ι	Applied Grammar	CO1	11	20
2	II	Introduction (self & Others),	CO2	08	15
		Comprehensive Passage			
3	III	Paragraph And Dialogue Writing	CO3	08	20
4	IV	Vocabulary Building	CO4	10	20
5	V	Presentation Skills	CO5	11	25
		Grand Total		48	100

VII. SUGGESTED COS - POS MATRIX FORM:

			Progra	mme Oı	utcomes (POs)		
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life long Learning
CO1	1	1	-	-	-	2	1
CO2	1	1	-	-	-	2	1
CO3	1	1		-	-	2	1
CO4	1	1	-	-	-	2	1
CO5	1	1	-	-	-	2	1

VIII. SUGGESTED LEARNING RESOURCES:

Sr.	Author	Title	Publisher with ISBN Number
No.			
1	Effective English	Kumar, E. Suresh;	Pearson Education, Noida, New Delhi, 2009
	with CD	Sreehari, P.; Savithri, J.	ISBN:978-81-317-3100-0
2	English Grammar	Gnana murali, M.	S. Chand and Co. New Delhi, 2011
	At Glance		ISBN:9788121929042
3	Essential English	Raymond murphy	Cambridge University Press, New Delhi, III
	Grammar		edition, 2011, ISBN:9780-0-521-67580-9
4	Living English	Allen, W.S.	Pearson Education, New Delhi, Fifth
	Structure		edition, 2009, ISBN:108131728498,99

IX. SOFTWARE / LEARNING WEBSITES:

- a. https://www.britishcouncil.in/english/learn-online
- b. http://learnenglish.britishcouncil.org/en/content
- c. http://www.talkenglish.com/
- d. languagelabsystem.com
- e. www.wordsworthelt.com

TEXTILE SCIENCE - I

Subject Code : 111002 **No. of Credits :** 3 (TH:3,T:0,P:3)

I. RATIONALE:

A diploma holder in Garment Technology must interact with skilled labour as well as assist seniors in procuring raw materials, fibres, and fabrics. Therefore, the learner should be able to classify textile fibres, understand their properties, and comprehend yarn processing methods to support further study and industrial application.

II. INDUSTRY/EMPLOYER EXPECTED OUTCOME:

This course enables students to identify and analyse various textile fibres and yarns used in fashion and textile industries, and to develop practical skills for testing and evaluating fabrics.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

- CO1 Classify textile fibres and explain their fundamental properties.
- CO2 Describe yarn manufacturing processes and distinguish among different yarn types, also analyse yarn properties relevant to fabric behaviour and performance.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT:

S. N.	Theory Learning Outcomes (TLOs)	Learning content mapped with TLOs	Suggested Learning Pedagogies.	No. of Lectures	Relevant CO
1	TLO1.1 Classify important textile fibres based on origin and constituents. TLO1.2 Explain key properties of cotton, jute, linen, wool, silk, polyester, nylon, acrylic, spandex, viscose rayon (performance, maintenance).	UNIT I: Introduction to Textile Fibre, Yarn and Fabric Classification of important textile fibres based on their origin and constituents. Important properties of fibres: Cotton, jute, linen, wool, silk, polyester, nylon, acrylic, spandex, viscose rayon relating to performance (strength /tenacity, absorbency) and maintenance (effect of biological organisms, chemicals, thermal conductivity)	Lecture, Charts	24	CO1
2	TLO2.1 Describe manufacturing of cotton, wool, and silk yarns. TLO2.2 Differentiate simple, novelty, textured, blended, and core spun yarns. TLO2.3: Explain yarn twist, yarn count/size, and direct/indirect yarn numbering systems.	 UNIT II: Yarn Processing: Manufacturing of cotton, wool and silk Types of yarns and their properties relevant to fabric behaviour: Simple yarns: single, ply, cord Novelty yarns: slub, boucle, chenille, nubs, corkscrew, grindelle Textured yarns: stretch yarns, bulk yarns, core spun yarns Blended yarns Yarn twist, yarn count/size Theory of direct and indirect methods of yarn numbering systems 	Lecture, Charts	24	CO2

V. LABORATORY LEARNING OUTCOMES & ALIGNED PRACTICAL EXPERIENCES:

S. N.	Practical Learning Outcomes (LLOs)	Laboratory Experiment / Practical Title	Hourse	СО
1	LLO1.1 Physically analyse fabrics composed of different fibres (cotton, jute, linen, wool, silk, polyester, nylon, acrylic, spandex, viscose rayon).	Physical analysis of fabrics of various fibres	7	CO2
2	LLO2.1 Visually examine fibres and yarns.	Visual examination of fibres and yarns	7	CO2
3	LLO3.1 Identify fibres through burning tests.	Burning test of fibres	7	CO2
4	LLO4.1 Identify fibres under microscope.	Microscopic test of fibres	7	CO2
5	LLO5.1 Apply chemical tests to identify fibres.	Chemical test of fibres	7	CO2
6	LLO6.1 Analyse and understand fabric texture (appearance and hand) based on yarns used.	Fabric texture analysis	7	CO2
7	LLO7.1 Observe yarn spinning systems.	Visit to spinning mill or watch video films on staple, filament, and spun filament yarn spinning	6	CO2

VI. SUGGESTED MICRO PROJECT / ASSIGNMENT / ACTIVITIES :

- Create a fibre identification chart using fabric swatches.
- Prepare a comparative chart of simple, novelty, textured, and blended yarns.
- Visit a spinning mill and prepare a report on cotton, wool, or silk yarn manufacturing.
- Conduct & record burning, microscopic, & chemical tests on an unknown fabric sample.
- Collect and categorize different types of fabrics based on yarn characteristics.

VII. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table):

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %
1	I	Introduction to Textile Fibre, Yarn & Fabric	CO1	24	50
2	II	Yarn Processing	CO2	24	50
		Total	l	48	100

VIII. COURSE OUTCOMES - PROGRAM OUTCOMES (CO-PO) MATRIX:

	Programme Outcomes (POs)							
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability &Environment	PO-6 Project Management	PO-7 Life long Learning	
CO1	3	2	1	1	2	1	2	
CO2	3	3	2	2	2	1	2	
Legends :-	Legends:- High:03, Medium:02, Low:01							

IX. SUGGESTED LEARNING MATERIALS / BOOKS:

S.N.	Author	Title	Publisher / ISBN
1	Corbman, B.P.	Textiles: Fibre to Fabric	McGraw Hill Education, ISBN 978 0 07 067218 3
2	Kadolph, Sara J.	Textiles	Pearson Education, ISBN 978013229032
3	Gohl, E.P.G. & Vilensky, L.D.	Textile Science	CBS Publishers, ISBN 978 81 239 0894 0
4	Wynne, A.	Textile Fibres: Natural and Synthetic	Woodhead Publishing, ISBN 978 1 85573 484 9
5	Trotman, E.R.	Dyeing and Chemical Technology of Textile Fibres	B.I. Publications, ISBN 978817225034 0
6	Seema Sekhri	Textbook of Fabric Science	PHI Learning, ISBN 9788120345465
7	Gupta, V.	Textile Processing	New Age International, ISBN 978 81 224 2398 7
8	Murphy, W.S.	Textile Finishing	Woodhead Publishing, ISBN 978 1 85573 573 0

X. LEARNING WEBSITES & PORTALS:

S.N.	Link / Portal	Description
1	https://nptel.ac.in	Free online courses from IITs including topics on textile technology
2	https://www.fibre2fashion.com	Global textile and apparel industry portal for trends, fibres, and yarns

3	https://www.textilelearner.net	Technical articles and tutorials on fabric, fibres, processing & dyeing
4	https://www.teonline.com	Textile engineering educational portal for fibre and fabric technology
5	https://www.textileschool.com	Online resource for textile design, materials, and manufacturing
6	https://textilefocus.com	Industry updates, research news, and innovations in textile field
7	https://www.tekstilportal.com	Portal for textile machinery, fabrics, and job opportunities

FASHION ILLUSTRATION - I

Subject Code : 101003 **No. of Credits :** 3 (TH:0,T:0,P:4)

I. RATIONALE:

The skill in fashion illustration is essential for the student of fashion designing so as to develop in them the creativity and ability to illustrate different types of figures and dresses in different colour medium. After going through this subject, the student of fashion design will be able to illustrate different types of figures and dresses.

Without understanding, practice, and experience in "fashion illustration and model drawing" a fashion designer/technologist can never achieve success. The subject has been graded in four successive parts to achieve the desired objectives.

II. INDUSTRY / EMPLOYER EXPECTED OUTCOME:

Create well-proportioned fashion figures and illustrations using various techniques and colour media.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

Students will be able to achieve & demonstrate the following COs on completion of course-based learning:

- CO1: Achieve & apply basic knowledge and skill in drawing the fashion figure and how it is used for fashion design.
- CO2: Understand the theory of various colour treatments and colour coordination in sketching.
- CO3: Understand the concept of flats, spec sheets, and placing of swatches.
- CO4: Use the appropriate terminology of different styles, design cuts etc.

IV. LAB LEARNING OUTCOMES AND ALIGNED COURSE CONTENT:

S. N.	Lab Learning Outcomes (LLOs) aligned to Cos	Learning Content	Suggested Learning Pedagogies.	CO
1	LLO1.1 Draw still life sketches with shading techniques.	Still life drawing Pencil shading Colour medium - wet & dry	Demonstration, Practice, Sheet Work	CO1
	LLO1.2 Practice colour mediums (wet & dry).			
2	LLO2.1 Understand fashion vs. human figure drawing. LLO2.2 Draw croquis and views.	Difference between human & fashion figure Basic ten head croque Stick & flesh figures Front, back, 3/4th view	Demonstration, Practice, Observation	CO2
3	LLO3.1 Shade figures using various materials. LLO3.2 Practice body parts rendering.	Pencil, micro tip, and water colour shading Shaping of hands, feet, hairstyles, arms, legs	Practice, Drawing Exercises	CO3
4	LLO4.1 Draw fashion accessories. LLO4.2 Create themed project sheets.	Study and draw accessories – Hats, gloves, bags, shoes, belts, jewellery Project / Sheet work for above study	Project Work, Peer Review	CO4

V. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table)

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %
1	I		CO1	16	20
2	II		CO2	16	30
3	III		CO3	16	25
4	IV		CO4	16	25
				64	100

VI. SUGGESTED COS - POS MATRIX FORM:

			Progra	Programme Outcomes (POs)				
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life long Learning	
CO1	3	2	2	1	2	1	2	
CO2	3	2	3	1	1	1	2	
CO3	3	2	3	2	1	1	2	
CO4	3	2	3	2	2	2	2	
Legends :-	High:03, M	edium:02,	Low:01	-				

VII. SUGGESTED LEARNING RESOURCES:

S.N.	Author	Title	Publisher
1	Kathryn Hagen	Fashion Illustration for Designers	Pearson Education, ISBN: 9780132781810
2	Bina Abling	Fashion Sketchbook	Fairchild Books, ISBN: 9781501395362
3	Anna Kiper	Fashion Illustration: Inspiration and Technique	David & Charles, ISBN: 9780715336182
4	Carol A. Nunnelly	Fashion Illustration Techniques	Bloomsbury Publishing, ISBN: 9781563678176
5	Steven Stipelman	Illustrating Fashion: Concept to Creation	Fairchild Publications, ISBN: 9781501328193
6	Bina Abling	Fashion Illustration	
7		Fashion Drawing Design	Magazine (Thailand)
9		Fashion Drawing	Anne Allen and Julion Seaman

VIII. LEARNING WEBSITES & PORTALS:

S.N.	Link / Portal	Description
1	https://www.skillshare.com	Offers courses in fashion sketching, croquis drawing, and colour rendering
2	https://www.pinterest.com	Reference platform for fashion figure templates and illustration ideas
3	https://www.youtube.com	Free video tutorials on figure sketching, croquis, and illustration tools
4	https://www.udemy.com	Online courses on digital and manual fashion illustration
5	https://www.fashionary.org	Offers croquis books, figure templates, and sketching tools
6	https://www.vogue.com	Fashion trends and design inspirations
7	https://nptel.ac.in	Design and drawing basics through Indian MOOCs (limited to design courses)

BASIC DESIGN

Subject Code : 111004 **No. of Credits :** 3 (TH:0,T:0,P:4)

I. RATIONALE:

A student of fashion designing must have a well-developed aesthetic sense to recognize beauty in objects and a capability to make best use of the experience in designing and developing fashion objects. This paper aims to develop such capability in the students by essential knowledge and practice.

II. INDUSTRY / EMPLOYER EXPECTED OUTCOME:

Apply design principles, color theory, and visual aesthetics to create basic and appealing fashion compositions.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

Students will be able to:

CO1: Apply basic principles of line, shape, and color theory in fashion design.

CO2: Develop geometric and compositional arrangements using basic forms and angles.

CO3: Create color-based visual compositions including color wheels and tints/shades.

CO4: Interpret and represent optical illusions and color interactions in design.

IV. LAB LEARNING OUTCOMES AND ALIGNED COURSE CONTENT:

S. N.	Lab Learning Outcomes (LLOs) aligned to Cos	Learning Content Mapped with LLOs and Cos	Suggested Learning Pedagogies.	Rele vant Cos
1	LLO1.1 Identify and draw various line types. LLO1.2 Create compositions using line directions and styles.	Lines – Horizontal, Vertical, Zigzag, Diagonal, Curved; Thick/thin, wavy, straight, aspect & role in design.	Demonstration, Sketching, Practice Sheets	CO1
2	LLO2.1 Apply geometric shapes to design fashion elements. LLO2.2 Use angles in design compositions.	Shapes – Circle, Square, Triangle, Rectangle; Geometric pattern compositions.	Hands-on practice, Design Tasks	CO2
3	LLO3.1 Construct and use color wheels. LLO3.2 Apply tints, tones, shades, and analogous/ complementary colors.	Color wheel – Primary, Secondary, Tertiary; Hue, value, intensity; Warm/cool colors, polychromatic, complementary & split complementary colors.	Coloring Exercises, Group Activities, Color Mixing	CO3
4	LLO4.1 Create visual illusions using color and shape. LLO4.2 Compare transparent vs. opaque and represent optical illusions.	Optical illusions using lines, checks, polka dots; Transparent vs. opaque; Visual contrast & vibrancy.	Demonstrations, Applied Visual Art Tasks	CO4

V. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table):

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %
1	I		CO1	12	20
2	II		CO2	12	20
3	III		CO3	20	30
4	IV		CO4	20	30
				64	100

VI. SUGGESTED COS - POS MATRIX FORM:

		Programme Outcomes (POs)						
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life long Learning	
CO1	3	2	2	1	1	1	2	
CO2	3	2	3	1	1	2	2	
CO3	3	2	3	2	2	1	3	
CO4	3	3	3	2	2	2	2	
Legends :-	High:03, M	edium:02,	Low:01					

VII. SUGGESTED LEARNING RESOURCES:

S.N.	Author	Title	Publisher with ISBN Number
1	Maitland Graves	The Art of Color and Design	Kessinger Publishing, ISBN: 9781169838031
2	Johannes Itten	The Elements of Color	Wiley, ISBN: 9780471289296
3	Aaris Sherin	Color Fundamentals for the Graphic Designer	Rockport Publishers, ISBN: 9781592538089
4	Wong, Wucius	Principles of Two-Dimensional Design	Van Nostrand Reinhold, ISBN: 9780442212041
5	Stephen Pentak, David A. Lauer	Design Basics	Cengage Learning, ISBN: 9781285858227

VIII. LEARNING WEBSITES & PORTALS:

S.N.	Link / Portal	Description
1	https://www.canva.com/colors	Interactive tools for color wheel, palettes, and harmony principles
2	https://www.sessions.edu/color-calculator	Color theory calculator and visualizer for complementary/analogous colors
3	https://www.kuler.adobe.com	Adobe color wheel tool for creating custom palettes

4	https://www.skillshare.com	Online courses on color theory, design elements, and fashion sketching
5	https://www.pinterest.com	Visual inspiration for line art, patterns, geometric design
6	https://www.behance.net	Showcases professional design and color application projects
7	https://nptel.ac.in	Design & visual communication modules by Indian institutions

GARMENT FABRICATION-I

Subject Code : 111005 **No. of Credits :** 3 (TH:0,T:0,P:5)

I. RATIONALE:

This course introduces students to fundamental garment construction techniques and the use of tools, equipment, and machines essential to the fabrication process. It covers construction elements such as seams, stitches, fasteners, plackets, pleats, darts, tucks, and pockets. It also provides practical training in embroidery and finishing of garments, thereby equipping students for hands-on work in garment production for various age groups.

II. INDUSTRY / EMPLOYER EXPECTED OUTCOME:

Use various tools, machines, and techniques to fabricate garments effectively in an industry-standard environment with attention to detail, finish, and accuracy.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

Students will be able to:

- CO-1: Identify and operate basic tools, equipment, and sewing machines used in garment construction.
- CO-2: Demonstrate various types of stitches and seams by hand and machine.
- CO-3: Apply construction techniques for garment details such as pleats, darts, tucks, gathers, and fasteners.
- CO-4: Fabricate garment components including necklines, pockets, plackets, and apply basic embroidery.

IV. LAB LEARNING OUTCOMES AND ALIGNED COURSE CONTENT:

S. N.	Lab Learning Outcomes (LLOs)	Mapped Course Content	Suggested Learning Pedagogies.	Rele vant Cos
1	LLO1.1 Identify garment tools and sewing machine parts.	 Tools used in measuring, marking, cutting, sewing, finishing. Types of needles and their working. Introduction to sewing 	Demonstration, job practice, hands-on	CO1
		machines – treadle, motor, computer-operated.		
2	LLO2.1 Perform control exercises and machine practice.	Speed control using paper and fabric.Machine defects and remedies.	Demo, individual practice	CO1
3	LLO3.1 Perform basic line exercises and use standard measurements.	Line types (straight, curved, circles, etc.)Measurement charts for kids, teens, adults.	Guided drawing, measurement activities	CO1
4	LLO4.1 Create different types of seams and stitches.	 Seams: plain, French, flat, lapped, curved, etc. Stitches: running, hemming, cross, buttonhole, tacking, etc. 	Video, demonstrations, practice samples	CO2
5	LLO5.1 Construct pleats, tucks, darts, gathers, shirring, smocking.	- Variations in pleats, gathers, tucks, darts, honeycomb, shirring, smocking.	Guided job prep, observation, assessment	CO3
6	LLO6.1 Finish necklines and apply fasteners.	 Neckline finishes (bias binding, piping, facing) Fasteners: buttons, zippers, hooks, etc. 	Demonstration, stitched samples	CO3
7	LLO7.1 Stitch different pockets and plackets.	Pockets: side, patch, bound, welt.Plackets: various types.	Sample preparation, group work	CO4
8	LLO8.1 Apply basic embroidery stitches.	- Embroidery: chain, lazy-daisy, stem, herringbone, etc.	Stitch swatches, display panels	CO4

V. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE:

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %	
1	I	Tools & Equipment	CO1	15	20	
2	II	Sewing Machine Use & Exercises	CO1	10	10	
3	III	Measurements & Line Exercises	CO1	9	5	
4	IV	Seams and Stitches	CO2	10	15	
5	V	Pleats, Darts, Tucks, Smocking	CO3	8	10	
6	VI	Neckline Finishes & Fasteners	CO3	8	10	
7	VII	Pockets and Plackets	CO4	10	10	
8	VIII	Basic Embroidery Stitches	CO4	10	10	
	Total 80 100					

VI. SUGGESTED COS - POS MATRIX FORM:

	Programme Outcomes (POs)						
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life long Learning
CO1	3	2	2	3	2	1	2
CO2	3	2	3	2	2	1	2
CO3	3	2	3	2	2	2	2
CO4	3	2	3	2	2	2	2
Legends :-	High:03, M	edium:02,	Low:01				

VII. SUGGESTED LEARNING MATERIALS / BOOKS:

S.N.	Author	Title	Publisher with ISBN Number
1	Sherie Doongaji	Basic Processes and Clothing Construction	Unique Educational Books / Raj Prakashan
2	K. R. Zarapkar	System of Cutting	Navneet Education, ISBN: 9788124301999

3	Evelyn A. Mansfield	Clothing Construction	Houghton Mifflin, ISBN: 9780395167281
4	Betty Foster	Betty Foster Fashion Maker	Butterworth-Heinemann, ISBN: 9780434906284
5	Gerry Cooklin	Introduction to Clothing Production Management	Wiley-Blackwell, ISBN: 9780632030782
6	Winifred Aldrich	Metric Pattern Cutting for Women's Wear	Wiley, ISBN: 9781119953445
7	Claire Shaeffer	The Complete Book of Sewing Shortcuts	Sterling, ISBN: 9780806986001

VIII. LEARNING WEBSITES & PORTALS:

S.N.	Link / Portal	Description
1	https://www.burdastyle.com	Sewing tutorials, patterns, tips
2	https://www.sewguide.com	Basics of sewing tools and stitches
3	https://www.threadsmagazine.com	Advanced sewing techniques
4	https://www.youtube.com	Practical demo videos
5	https://www.fibre2fashion.com	Industry-oriented content
6	https://nptel.ac.in	Technical courses related to textiles
7	https://www.udemy.com	Fashion and garment construction courses

BASIC PATTERN MAKING - I

Subject Code : 111006 **No. of Credits :** 2 (TH:3,T:0,P:3)

I. RATIONALE:

Pattern design is a core component of garment construction. A diploma holder in Fashion Design must be equipped with the knowledge and technical skills to develop garment blocks using standard measurements and pattern-drafting techniques. This course enables learners to understand drafting tools, measurement methods, figure types, and construct sleeve and collar variations, which are essential for precise garment fitting and styling.

II. INDUSTRY/EMPLOYER EXPECTED OUTCOME:

The student will be able to draft basic bodice, sleeve, and collar blocks based on human measurements using appropriate tools and techniques, interpret garment design into functional patterns, and support the fashion production process from concept to prototype.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

Upon completion of this course, students will be able to:

- CO1 Understand measurement systems and classify methods of measurement used in pattern design.
- CO2 Identify and use pattern making tools and equipment effectively.
- CO3 Analyze body anatomy, figure types, and their influence on pattern development.
- CO4 Apply drafting techniques to develop bodice blocks, sleeves, and collars.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT:

S. N.	Theory Learning Outcomes (TLOs)	Mapped Learning Content	Suggested Learning Pedagogies.	No. of Lectures	CO
1	TLO1.1 Define types of measurements.	Unit - I Introduction to Measurements	Lecture, Charts,	10	CO1
	TLO1.2 Explain measurement methods and their applications.	a. Measurement chartsb. Direct, anthropometric, and garment-based methods	Demonstration		
2	TLO2.1 Identify pattern making tools.TLO2.2 Describe usage and care of drafting equipment.	Unit - II Pattern Making Tools and Their Usage	Demonstration, Samples, Practice	8	CO2
3	TLO3.1 Explain the importance of drafting. TLO3.2 Understand drafting terminology & layout types.	Unit - III Scope and Terminology of Drafting Drafting equipment, its use, and layout types	Lecture, Illustrations, Hands-on	14	CO2
4	TLO4.1 Describe human body structure. TLO4.2 Identify common figure types and defects.	Unit - IV Human Anatomy in Pattern Design	Visual aids, Sketches, Group Discussions	8	CO3
5	TLO5.1 Define terminology related to sleeves and collars.	Unit - V Terminology of Sleeves and Collars	Flashcards, Reference Garments	8	CO3

V. LABORATORY LEARNING OUTCOMES AND ALIGNED PRACTICAL EXPERIENCES:

S. N.	Lab Learning Outcomes (LLOs)	Practical Title	Hourse	СО
1	LLO1.1: Draft child's basic bodice block.	Drafting of child's bodice block	08	CO4
2	LLO2.1: Draft basic and stylized sleeves.	Drafting of sleeves: basic, puff, magyar, petal, leg-o-mutton, flared	20	CO4
3	LLO3.1: Draft different types of collars.	Drafting of collars: Peter Pan, cape, bishop, sailor's, shawl, Chinese, shirt	20	CO4

VI. SUGGESTED MICRO PROJECT / ASSIGNMENT / ACTIVITIES:

- Create a body measurement chart based on anthropometric data.
- Prepare a poster showing different sleeve styles with images or sketches.
- Develop a pattern drafting glossary booklet.
- Draft bodice and sleeve blocks and present them in a pattern file.
- Compare figure types and prepare sketch diagrams with fitting suggestions.

VII. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE:

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %
1	I	Introduction to Measurements	CO1	10	20
2	II	Pattern Making Tools	CO2	8	20
3	III	Drafting Terminology and Layouts	CO3	14	30
4	IV	Human Anatomy	CO4	8	15
5	V	Sleeve and Collar Terminology CO5		8	15
	Total			48	100

VIII. COURSE OUTCOMES - PROGRAM OUTCOMES (CO-PO) MATRIX:

Outcomes (COs)and Discipline Specific KnowledgeAnalysisDevelopment of SolutionsPractices for Society, Sustainability and EnvironmentManagementLearningCO13211212CO23322212CO33221312		Programme Outcomes (POs)							
CO2 3 3 2 2 2 1 2 CO3 3 2 2 1 3 1 2	Outcomes	Basic and Discipline Specific	Problem	Design/ Develop- ment of	Engin- eering	Engineering Practices for Society, Sustainability and	Project	Life long	
CO3 3 2 2 1 3 1 2	CO1	3	2	1	1	2	1	2	
	CO2	3	3	2	2	2	1	2	
	CO3	3	2	2	1	3	1	2	
	CO4	3	2	3	2	2	2	2	

Legends: - High:03, Medium:02, Low:01

IX. SUGGESTED LEARNING MATERIALS / BOOKS:

S.N.	Author	Title	Publisher / ISBN
1	Winifred Aldrich	Metric Pattern Cutting for Children's Wear and Babywear	Wiley, ISBN: 9781405102780
2	Helen Joseph Armstrong	Patternmaking for Fashion Design	Pearson, ISBN: 9789332586955
3	Dorothy Moore	Pattern Drafting and Dressmaking	Macmillan Publishing
4	Gerry Cooklin	Introduction to Clothing Production Management	Wiley-Blackwell, ISBN: 9780632030782
5	Natalie Bray	Dress Pattern Designing	Blackwell Science, ISBN: 9780632054672

X. LEARNING WEBSITES & PORTALS:

S.N.	Link / Portal	Description	
1	https://www.sewguide.com	Tutorials on drafting and garment construction	
2	2 https://www.threadsmagazine.com Technical guidance on patternmaking		
3	3 https://www.textilelearner.net Educational content on apparel design		
4	4 https://www.burdastyle.com Downloadable patterns and drafting tips		
5	https://www.youtube.com Practical drafting demonstrations		
6	6 https://www.textileschool.com Resources on pattern design and grading		

BASIC COMPUTER EDUCATION - I

Subject Code : 101007 **No. of Credits :** 1 (TH:0,T:0,P:3)

I. RATIONALE:

Basic computer education has great influence in all aspects of life. Almost all workplaces and living environments are being computerized. In order to prepare diploma holders to work in these environments, it is essential that they are exposed to various aspects of information technology such as understanding the concept of information technology and its scope, operating a computer, using various tools of MS Office, using the internet, etc. This exposure will enable the students to enter their professions with confidence, live in a harmonious way, and contribute to productivity.

II. INDUSTRY / EMPLOYER EXPECTED OUTCOME:

Employers expect individuals to possess foundational digital literacy skills, including the ability to effectively operate a computer, manage files, utilize common office applications for document creation and communication, and navigate the internet securely and efficiently for information retrieval and correspondence.

III. COURSE LEVEL LEARNING OUTCOMES (COS):

Students will be able to achieve & demonstrate the following COs on completion of course based learning:

CO1: Understand Computer Fundamentals

CO2: Operate and Manage Files within an Operating System

CO3: Perform Basic Word Processing Operations

CO4: Utilize Computer Communication and Internet Services

IV. THEORY CONTENT COVERED IN LAB LECTURE BEFORE THE PRACTICAL.

S. N.	Theory Learning Outcomes (TLOs) aligned to COs	Learning content mapped with Theory Learning Outcomes (TLOs) & COs.	Suggested Learning Pedagogies.	CO
1	TLO1.1 Define a computer, its characteristics, and various applications in daily life and professional settings. TLO1.2 Identify and describe the major components of a computer system, including input/output devices, and differentiate between various types of memory and storage devices.	Unit I. Computer: Definition, Characteristics, Applications, Components of Computer System, Input/Output Devices, Concept of Memory, Magnetic and Optical Storage Devices.	Hands-on Activity, Tutorials	CO1
2	TLO2.1 Explain the definition and core functions of an operating system (e.g., Windows). TLO2.2 Demonstrate proficiency in navigating the Windows environment, including exploring the computer, managing files and folders, and customizing display properties and system settings.	Unit II. Operating System Windows: Definition & Functions of Operating System, Basic Components of Windows, Exploring Computer, Icons, taskbar, desktop, managing files and folders, Control panel — display properties, add/remove setting date and time, screen saver and appearance	Hands-on Activity, Tutorials	CO2
3	TLO3.1 Create, edit, and format documents using word processing software (e.g., MS Word). TLO3.2 Utilize features like spell checking, printing, tables, and mail merge to produce professional documents.	Unit III. Word Processing: Introduction to Word Processing, Menus, Creating, Editing & Formatting Document, Spell Checking, Printing, Views, Tables, Word Art, Mail Merge.	Hands-on Activity, Tutorials	CO3
4	TLO4.1 Understand the basics of the Internet and its various applications. TLO4.2 Demonstrate the ability to surf the Internet using web browsers and effectively manage email, including creating an email ID, sending, receiving, attaching files.	Unit IV. Computer Communication: Internet and its applications, Surfing the Internet using web browsers, Creating Email Id, Viewing an E-Mail, Sending an E-Mail to a single and multiple users, Sending a file as an attachment.	Hands-on Activity, Tutorials	CO4

V. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL EXPERIENCES:

S. N.	Practical/Tutorial/Laboratory Learning Outcome (LLO)	Laboratory Experiment/ Practical Titles / Tutorial Titles	Relevant Cos
1	LLO 1.1 Identify physical components of a computer system including CPU, monitor, keyboard, mouse, printer, and speakers.	Identify and connect various components of a computer system (CPU, Monitor, Keyboard, Mouse, Printer,	CO1
	LLO 1.2 Demonstrate correct method of connecting peripheral devices to the CPU.	Speakers, etc.). Differentiate between input and output	
	LLO 1.3 Classify devices as input or output and explain their functions.	devices.	
2	LLO 2.1 Demonstrate proper procedure to start and shut down a computer system safely.	Start and shut down the computer properly. Identify	CO2
	LLO 2.2 Identify elements of the Windows desktop such as icons, taskbar, and start menu, and explain their functions.	and describe the functions of the Desktop, Taskbar, and Icons. Practice opening and	
	LLO 2.3 Open and close commonly used software applications using desktop or start menu shortcuts.	closing applications.	
3	LLO 3.1 Create, rename, move, copy, and delete files and folders using the Windows interface.	Create, rename, move, copy, and delete files and folders.	CO2
	LLO 3.2 Demonstrate the use of the Recycle Bin to restore or permanently delete files.	Understand the concept of "Recycle Bin" and	
	LLO 3.3 Navigate file structures and drives using "My Computer" or "This PC" interface.	restore/empty it. Use "My Computer" or "This PC" to navigate drives.	
4	LLO 4.1 Open and navigate a word processing application such as MS Word or Libre Office Writer.	Open word processing software (e.g., MS Word). Identify common menu items	CO2
	LLO 4.2 Identify and describe the functions of common menus and toolbars in the word processor interface.	and toolbars. Type and save a basic document.	
	LLO 4.3 Create a basic document, input text, and save it to a specified location.		
5	LLO 5.1 Apply editing operations such as cut, copy, and paste to modify text in a document. LLO 5.2 Perform table operations such as inserting, deleting rows/columns, and merging/splitting cells.	Practice basic editing (cut, copy, paste) and text formatting (font type, size, bold, italic, underline, text alignment).	CO3

	LLO 5.3 Demonstrate formatting consistency and readability in a structured document.		
6	LLO 6.1 Create and insert a table in a word processing document.	Create a table, insert/delete rows and columns, and	CO3
	LLO 6.2 Format text using different font types, sizes, and styles (bold, italic, underline).	merge/split cells. Enter and format data within the table.	
	LLO 6.3 Enter data into table cells and apply formatting (alignment, font style, borders, etc.).		
7	LLO 7.1 Insert and customize Word Art in a word processing document.	Insert Word Art into a document. Insert and resize a	CO4
	LLO 7.2 Insert, resize, and reposition an image within a document using appropriate formatting tools.	simple image.	
8	LLO 8.1 Establish a connection to the internet using available network options (wired/wireless).	Connect to the internet. Use a web browser (e.g., Chrome, Firefox) to search for	CO4
	LLO 8.2 Open a web browser and navigate to search engines (e.g., Google).	information using keywords on search engines (e.g., Google).	
	LLO 8.3 Use effective keywords to search for specific information and interpret the search results.	Googie).	

Note: Out of above suggestive LLOs -

Minimum 70% of the above listed lab experiments are to be performed. Judicious mix of LLOs is to be performed to achieve desired outcomes.

VI. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table):

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %
1	I	Computer	CO1	09	20
2	II	Operating System Windows	CO2	09	20
3	III	Word Processing	CO3	15	30
4	IV	Computer Communication	CO4	15	30
		Total	48	100	

VII. SUGGESTED COS - POS MATRIX FORM:

			Progra	mme Ou	utcomes (POs)		
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life long Learning
CO1	3	2	1	1	2	-	2
CO2	3	2	1	2	2	-	2
CO3	3	3	2	2	2	-	2
CO4	3	2	2	2	2	-	2
Legends :-	High:03, M	edium:02,	Low:01				

VIII. SUGGESTED LEARNING RESOURCES:

S.N.	Author	Title	Publisher
1	P.K. Sinha	Computer Fundamentals	BPB Publications
2	Anita Goel	Computer Fundamentals	Pearson Education
3	V. Rajaraman	Fundamentals of Computers	PHI Publications
4	D.J. Rosencrantz	Fundamental Problems in Computing (5th Ed.)	Springer
5	Ron Faile et al.	Libre Office - The Documentation Foundation	LibreOffice
6	Arti Rathore	Microsoft Office 2010 Course (Hindi)	BPB Publications
7	Krishna Kumari	Computer Fundamentals	Book World, Dehradun

IX. LEARNING WEBSITES & PORTALS:

S.N.	Link / Portal	Description
1	https://nptel.ac.in	NPTEL materials on computer fundamentals
2	https://tutorialspoint.com	Basics of computing and MS Office tutorials
3	https://www.libreoffice.org	LibreOffice documentation and downloads
4	https://www.bpbpublications.com	Access to BPB-published computer books



ENGLISH AND COMMUNICATION SKILLS - II

Subject Code: No. of Credits: 2 (TH:2,T:1,P:2)

I. RATIONALE:

In the era of globalization, the most commonly used medium to express oneself is the English language, especially in the industry, where almost all the service manuals, installation and commissioning manuals of the various equipment are in English and the technologist has to interpret them correctly. English is the dire need, not only for the Indian industry, but also worldwide, where the diploma engineers have the opportunity to take up jobs. Therefore, the basic English reading and writing skills have become almost mandatory for employment in the industry. Hence, English language has become quite a necessity for engineering diploma students. This course is therefore designed to help the students to learn the correct grammatical structures and use the relevant vocabulary while reading and writing.

II. INDUSTRY / EMPLOYER EXPECTED OUTCOME:

The aim of this course is to help the student to achieve the following industry identified outcome through various learning experiences: "Communicate in written and oral form of English effectively at workplace".

III. COURSE LEVEL LEARNING OUTCOMES (COS) FOR ENGLISH AND COMMUNICATION SKILLS –II:

Students will be able to achieve & demonstrate the following COs on completion of course based learning:

- CO1 Practice workplace etiquettes and professionalism in communication.
- CO2 Cultivate soft skills like teamwork and empathy in work environments.
- CO3 Explore digital communication tools and techniques for professional interaction.
- CO4 Demonstrate the ability to write clear and concise business and technical documents.
- CO5 Formulate grammatically correct sentences.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT FOR ENGLISH AND COMMUNICATION SKILLS-II:

Sr. No	Major Theory Learning Outcomes		Learning content mapped with Learning Outcomes (LOs) and COs.	Suggested Learning Pedagogies.	No of Lecture	СО
1	WRITING SKILLS 1. Understand professional digital communication etiquette 2. Write clear, concise emails and professional documents 3. Use workplace communication platforms effectively	SPEAKING SKILLS 1. Practical exercises on writing emails and reports 2. Role playing digital communication scenarios 3. Hands- on session with platforms like Microsoft teams, zoom and meet	UNIT - I: Digital Communication 1. E mail writing (format, subject lines, tone, structure) 2. Writing professional reports (report types, structure, style) 3. Digital platforms for communication (zoom, teams, meet etiquette)	Chalk and board, Improved lecture, Tutorial, Assignment and Demonstration	8	CO3
2	1. Write clear and professional business documents 2. Understand the tone and structure required for business communication 3. Enhance the ability to write concise emails, memos and proposals.	practice assignments (letters, memos) 2. Case studies to	UNIT - II: Business Correspondence 1. Business letters (structure, formal tone, clarity) 2. Memos and proposals (formats, purpose- driven writing) 3. Executive summaries (condensing information, clarity)	Chalk and board, Improved lecture, Tutorial, Assignment and Demonstration	9	CO4
3	1. Develop key interpersonal skills for workplace success	1. Group projects to foster teamwork	UNIT - III: Soft Skills for Employability 1. Teamwork and collaboration	Chalk and board, Improved lecture, Tutorial,	12	CO2

	2. Enhance teamwork, leadership and decision- making abilities 3. Improve problem- solving and critical thinking in communication	2. Leadership role play exercises 3. Problemsolving scenarios and case studies	(importance of cooperation) 2. Leadership communication (persuasion, delegation) 3. Problem solving techniques (decision-making frameworks)	Assignment and Demonstration		
4	 Develop effective verbal and non-verbal communication abilities Understanding communication barriers. Improve ability to overcome barriers. Develop effective listening skills. 	1. Role- playing effective communication 2. Case studies on successful overcoming of communication barriers. 3. Group discussions on real- life conflict examples.	UNIT - IV: Communication Skills 1. Definition and Process of effective communication. 2. Barriers to communication- Definition, types, Overcoming barriers 3. Conflict resolution (active listening, empathy)	Chalk and board, Improved lecture, Tutorial, Assignment and Demonstra- tion	9	CO1
5	 Write and understand subject- verb agreement rules. Write and understand nounpronoun agreement rules. Identify the common errors in English. 	1. Writing practice exercises for identifying misplace modifiers and common errors in English. 2. Assigning exercises to identify subjectiverb and nounpronoun agreement in sentences	UNIT - V: Identifying Common Errors in Writing 1. Subject- verb agreement 2. Noun- Pronoun Agreement 3. Misplaced Modifiers 4. Common English Errors	Chalk and board, Improved lecture, Tutorial, Assignment and Demonstra- tion	10	CO5

V. LABORATORY LEARNING OUTCOME (LLO) ENGLISH AND COMMUNICATION SKILLS-I:

Sr. No.	Practical / Laboratory Learning Outcome (LLO)	Laboratory Experiment / Practical Titles	No. of Hrs.	Relevant Cos
1	LLO 1.1 Enhance the understanding of word formation LLO 1.2 Enrich word power LLO 1.3 Construct words with the	Formulate 20 words using Prefix and suffix	4	CO5
2	specific meanings LLO 2.1 Use words and phrases effectively LLO 2.2 Enrich vocabulary LLO 2.3 Develop overall language skills	Construct sentences using 20 collocations	4	CO5
3	LLO 3.1 Add depth to narratives LLO 3.2 Form grammatically correct sentences	Compose situational dialogues (Any Two)	4	CO5
4	LLO 4.1 Develop skills in story telling LLO 4.2 Connect with the audience	Narrate anecdotes of various situations in English	5	CO2
5	LLO 5.1 Present complex information in a clear & concise manner LLO 5.2 Develop public speaking skills and presentation skills	Prepare a Power point presentation on a given topic	6	CO3
6	LLO 6.1 Reflect on thoughts, feelings, and experiences	Write your experience of an industrial visit in 50 words on (Four) given situations (Diary Entry)	4	CO4
7	LLO 7.1 Express information incoherent and engaging manner LLO 7.2 Build confidence	Mock Team Meeting Presentation	5	CO1

VI. SUGGESTIONS OF WEIGHTAGE TO LEARNING FOR ASSESSMENT PURPOSE:

Sr. No.	Unit	nit Unit Title		Learning Hours (L+T)	Weightage %
1	Ι	Digital Communication	CO1	08	15
2	II	Business Correspondence	CO2	09	20
3	III Soft Skills for Employability		CO3	12	25
4	4 IV Negotiations and Conflict Resolution		CO4	09	20
5	V	Identifying Common Errors in Writing	CO5	10	20
		Grand Tot	48	100	

VII. SUGGESTED COS - POS MATRIX FORM:

			Progra	mme O	utcomes (POs)		
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life long Learning
CO1	1	1	-	-	-	2	1
CO2	1	1	-	-	-	2	1
CO3	1	1	-	-	-	2	1
CO4	1	1	-	-	-	2	1
CO5	1	1	-	-	-	2	1

VIII. SUGGESTED LEARNING RESOURCES:

Sr. No.	Author	Title	Publisher with ISBN Number
110.			
1	Effective English	Kumar, E. Suresh;	Pearson Education, Noida, New Delhi, 2009
	with CD	Sreehari, P.; Savithri, J.	ISBN:978-81-317-3100-0
2	English Grammar	Gnana murali, M.	S. Chand and Co. New Delhi, 2011
	At Glance		ISBN:9788121929042
3	Essential English	Raymond murphy	Cambridge University Press, New Delhi, III
	Grammar		edition, 2011, ISBN:9780-0-521-67580-9
4	Living English	Allen, W.S.	Pearson Education, New Delhi, Fifth
	Structure		edition, 2009, ISBN:108131728498,99

IX. SOFTWARE / LEARNING WEBSITES:

- a. https://www.britishcouncil.in/english/learn-online
- b. http://learnenglish.britishcouncil.org/en/content
- c. http://www.talkenglish.com/
- d. languagelabsystem.com
- e. www.wordsworthelt.com

TEXTILE SCIENCE - II

Subject Code : 112002 **No. of Credits :** 3 (TH:3,T:0,P:2)

I. RATIONALE:

A diploma holder in Garment technology must understand fabric structures and finishes to make informed decisions during garment development. Knowledge of various knit and woven structures, fabric properties, and functional or aesthetic finishes ensures the selection of appropriate materials for desired design outcomes. This course also includes traditional textiles and printing methods, providing both theoretical knowledge and practical skills essential for professional practice and consumer satisfaction.

II. INDUSTRY/EMPLOYER EXPECTED OUTCOME:

This course enables students to:

- Distinguish between various knit and woven structures.
- Identify functional and decorative fabric finishes.
- Appreciate traditional Indian textiles and production techniques.
- Perform practical techniques in dyeing and printing for creative applications.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

On successful completion of this course, the student will be able to:

- CO1 Understand structure and classification of knitted fabrics.
- CO2 Analyze various fabric finishes and their impact on consumer needs.
- CO3 Identify traditional woven and non-woven textiles of India.
- CO4 Demonstrate practical skills in fabric dyeing, printing, and surface ornamentation.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT:

S. N.	Theory Learning Outcomes (TLOs)	Learning content mapped with TLOs	Suggested Learning Pedagogies.	No. of Lectures	Relevant CO
1	TLO1.1 Classify knit structures. TLO1.2 Describe properties of warp and weft knits.	Unit I: Fabric Structure and Properties - Types of knit structures - Classification: Warp & Weft knits - Weft Knits: Plain, Purl, Rib, Interlock - Warp Knits: Tricot & Raschel	Lecture, Fabric Samples, Swatches, Charts	18	CO1
2	TLO2.1 Classify fabric finishes. TLO2.2 Identify finishes affecting appearance, texture, and function.	Unit II: Finishes - Importance of fabric finishes - Finishes affecting appearance: Bleaching, Calendaring, Embossing - Finishes affecting texture: Flocking, Napping, Acid finish, Stiffening - Functional finishes: Tentering, Shrinkage control, Heat setting, Moth/water resistance, Mercerization, Wash-nwear, Crease resistance	Lecture, Demonstration, Fabric Testing	18	CO2
2	TLO3.1 Identify Indian woven and non-woven textiles. TLO3.2 Explain cultural and regional significance.	Unit III: Woven and Non-Woven Textiles - Traditional Indian textiles: Brocade, Chanderi, Paithani, Maheshwari, Kanchiwaram, Patolas, Pochampalli, Ikat - Non-woven textiles: Namdas and Kashmiri Shawls	Presentation, Videos, Field Visit (if feasible)	12	CO3

V. LABORATORY LEARNING OUTCOMES AND PRACTICAL EXPERIENCES:

S.N.	Practical Learning Outcomes (LLOs)	Practical Title / Activity	Hrs.	CO
1	LLO1.1 Apply direct dyeing techniques on cotton	Dyeing of cotton with direct dyes	4	CO4
2	LLO2.1 Use acid dyes for protein fibres	Dyeing of wool and silk with acid dyes	6	CO4
3	LLO3.1 Identify origins and characteristics of fabrics	Study of different fabric types and origins	4	СОЗ
4	LLO4.1 Apply traditional decorative techniques	Tie & Dye using multiple techniques	6	CO4
5	LLO4.2 Execute batik method for fabric decoration	Batik – wax resist dyeing	6	CO4
6	LLO4.3 Perform block printing on fabric	Traditional wooden block printing	6	CO4

VI. SUGGESTED MICRO PROJECTS / ASSIGNMENTS / ACTIVITIES (08 Hrs.):

- Prepare a comparative chart on weft and warp knits with samples.
- Create a catalogue of fabric finishes with visual illustrations.
- Conduct a survey on consumer preferences for fabric finishes in ready-made garments.
- Design a poster showcasing regional textile art (e.g., Patola or Ikat).
- Compile a sample book of dyed/printed fabrics using tie-dye, batik, and block print techniques.

VII. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table):

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %
1	I	Fabric Structure and Properties	CO1	18	35
2	II	Finishes	CO2	18	35
3	III	Woven and Non-Woven Textiles	CO3	12	30
		Total		48	100

VIII. COURSE OUTCOMES - PROGRAM OUTCOMES (CO-PO) MATRIX:

		Programme Outcomes (POs)					
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability & Environment	PO-6 Project Management	PO-7 Life long Learning
CO1	3	2	2	1	1	1	2
CO2	3	3	2	2	2	1	2
CO3	3	2	2	1	3	1	2
CO4	2	2	2	3	2	1	2
Legends :-	Legends:- High:03, Medium:02, Low:01						

IX. SUGGESTED LEARNING MATERIALS / BOOKS:

S.N.	Author	Title	Publisher / ISBN
1	Seema Sekhri	Textbook of Fabric Science	PHI Learning, ISBN: 9788120345465
2	Sara J. Kadolph	Textiles	Pearson Education, ISBN: 9780132129032
3	Corbman, B.P.	Textiles: Fibre to Fabric	McGraw-Hill, ISBN: 9780070672183
4	Gohl & Vilensky	Textile Science	CBS Publishers, ISBN: 9788123908940
5	V. Gupta	Textile Processing	New Age International, ISBN: 9788122423987
6	E.R. Trotman	Dyeing and Chemical Technology of Textile Fibres	B.I. Publications, ISBN: 9788172250340

X. LEARNING WEBSITES & PORTALS:

S.N.	Link / Portal	Description
1	https://nptel.ac.in	Courses on textile technology from IITs
2	https://www.fibre2fashion.com	Industry updates and resources on fibres, yarns
3	https://www.textilelearner.net	Articles and guides on textile techniques
4	https://www.textileschool.com	Online tutorials for textile education
5	https://www.teonline.com	Technical and educational resources for textiles
6	https://textilefocus.com	Industry news, innovations and market trends

Let me know if you'd like a version in DOC or PDF format or assistance with integrating this into your curriculum document set.

FASHION ILLUSTRATION-II

Subject Code : 102003 **No. of Credits :** 3 (TH:0,T:0,P:4)

I. RATIONALE:

The skill in fashion illustration is essential for students of fashion design to foster their creativity and technical ability. Upon completion of the course, students will be able to illustrate different types of figures and dresses using various colour mediums. This includes learning to draw from live models, photos, and applying rendering techniques like light and shade to different clothing types.

II. INDUSTRY/EMPLOYER EXPECTED OUTCOME:

Students will be equipped to visualize and communicate fashion ideas through accurate and creative fashion illustrations. They will demonstrate skill in drawing garments on stylized figures and using a variety of color mediums to express fashion concepts.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

CO1: Draw from a live model or three-dimensional body form.

CO2: Convert photographic references into stylized fashion figures.

CO3: Apply techniques of reduction and enlargement for fashion figures.

CO4: Illustrate garments with detail, texture, and light/shade effects using pencil, water colour, poster colour, etc.

CO5: Render thematic fashion figures in various styles: sportswear, casual, beachwear, winter, formal, indo-western.

IV. LAB LEARNING OUTCOMES AND ALIGNED COURSE CONTENT:

S	ľ	Laboratory Experiment / Practical Title	No of Hrs	Relevant Cos
1	LLO1.1: Draw fashion figures from a live model or mannequin.	Drawing from a live model or three-dimensional body.	6	CO1
2	LLO2.1: Transform photographs into fashion illustrations.	Drawing from photos & converting them into fashion figures.	6	CO2

3	LLO3.1: Apply scale techniques to adjust figure proportions.	Reduction and enlargement of fashion figures.	6	СОЗ
4	LLO4.1: Use pencil and charcoal to render dresses with proper light and shade.	1. Detail study in pencil light & shade with different types of dresses and drapes.		CO4
LLO4.2: Render garments using various colour mediums (poster colour, waterproof ink,		2. Garments in different colour mediums- poster colour water proof, pencil, water colour.		
	pencil, water colour) to express fabric texture, fall, and drape in fashion illustration.	E.g. a) Draw different types of gathered dresses and shades them with pencil.		
	Tasmon mustration.	b) Draw different types of pleated dresses and shades them with pencil (charcoal)		
		c) Draw different types of pant shirt and shade them with pencil.		
5	LLO4.2: Illustrate garments using different colouring mediums.	Rendering dresses using poster colour, waterproof inks, pencil and water colour.		CO4
6	LLO5.1: Render fashion	Flesh figure illustrations in:	18	CO5
	figures in seasonal and theme-	a) Sportswear		
	oused utilie.	b) Summer casual (water colour)		
		c) Beachwear (poster colour)		
		d) Winter wear (steadlers)		
		e) Summer formal		
		f) Indo-western		

V. SUGGESTED MICRO PROJECT/ASSIGNMENT/ACTIVITIES

- **Sketchbook Project:** Create a themed sketchbook of 10 fashion figures based on a chosen season (e.g., Monsoon/Resort/Fall).
- **2. Style Analysis Assignment:** Collect fashion magazine clippings and re-illustrate any 5 looks with different media.
- **3. Portfolio Assignment:** Design and present a 4-look mini collection using different rendering techniques.
- **4. Creative Draping Study:** Illustrate how fabrics like silk, denim, chiffon, and wool behave using pencil shading and watercolour.
- **5. Pose & Movement Chart:** Prepare an action figure board showing 5 dynamic poses to demonstrate fabric fall.

VI. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table):

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %		
1	I	Drawing from live model or mannequin	CO1	6	10%		
2	II	Drawing from photographs and converting into fashion figures	CO2	6	10%		
3	III	Scale techniques for proportion (enlargement/reduction)	CO3	6	10%		
4	IV	Rendering with pencil, charcoal and color mediums	CO4	22	35%		
5 V Illustration of garments in different colour mediums		CO4	6	10%			
6	VI	Seasonal and theme-based fashion rendering	CO5	18	25%		
	Total 64 100%						

VII. SUGGESTED COS - POS MATRIX FORM:

	Programme Outcomes (POs)						
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life long Learning
CO1	3	2	2	1	1	1	2
CO2	3	2	3	2	1	1	2
CO3	3	1	2	2	1	1	2
CO4	3	2	3	3	2	2	3
CO5	3	2	3	2	3	3	3
Legends :-	High: 03, N	Iedium: 02	, Low: 01				

VIII. SUGGESTED LEARNING MATERIALS / BOOKS:

S.N.	Author	Title
1	Magazine of Thailand	Fashion Drawing Design
2	Anne Allen & Julion Seaman	Fashion Drawing The Basic Principles
3	Beena Abling	Fashion Illustration

IX. LEARNING WEBSITES & PORTALS

S.N.	Link / Portal	Description
1	https://www.pinterest.com	For mood boards, color combinations, and
		illustration references
2	https://www.behance.net	View portfolios and fashion rendering inspiration
3	https://www.ninalee.co.uk/blog	Fashion design tips and figure sketch tutorials
4	https://fashionary.org	Free templates and fashion illustration tools
5	https://www.skillshare.com	Online courses on figure drawing, rendering and garment illustration
6	https://www.udemy.com	Fashion illustration and digital sketching courses
7	https://www.textilelearner.net	Insight on fabrics, folds, and texture rendering

TRADITIONAL EMBROIDERY

Subject Code : 112004 **No. of Credits :** 2 (TH:0,T:0,P:5)

I. RATIONALE:

India has a rich heritage of traditional embroideries that reflect regional identities, cultural narratives, and artisanal skills. This course is designed to introduce students to prominent statewise embroidery styles across India. Understanding these traditional techniques allows garment Technology students to apply culturally rooted embellishment methods in contemporary design practice and contribute to the preservation and innovation of heritage crafts.

II. INDUSTRY/EMPLOYER EXPECTED OUTCOME:

The course enables students to:

- Recognize and appreciate India's diverse embroidery traditions.
- Identify unique characteristics and motifs of each state's embroidery.
- Incorporate traditional handwork techniques into contemporary products.
- Develop hands-on proficiency in decorative surface ornamentation methods relevant to the fashion and lifestyle sector.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

On completion of this course, students will be able to:

- CO1 Identify and describe traditional embroideries of various Indian states.
- CO2 Demonstrate a range of contemporary surface ornamentation techniques.
- CO3 Design and develop a product showcasing traditional Indian embroidery.

IV. INTEGRATED THEORY CONTENT TO BE COVERED IN LAB LECTURES (Before Practical Work):

S. N.	Theory Learning Outcomes (TLOs)	Learning content mapped with TLOs	Suggested Learning Pedagogies.	Relevant
1	TLO1.1 Describe the regional characteristics and motifs of traditional embroideries	Kantha of Bengal	Lecture, Visual Presentation, Sample Study	CO1
2	TLO1.2 Identify stitch techniques and cultural relevance	Kasuti of Karnataka	Lecture, Charts, Sample Analysis	CO1
3	TLO1.3 Recognize the embroidery techniques and base materials	Chikankari of Uttar Pradesh	Lecture, Images, Swatches	CO1
4	TLO1.4 Explain aesthetic features and regional context	Kashida and Aari Work of Kashmir	Lecture, Demonstration, Video	CO1
5	TLO1.5 Appreciate design elements and traditional application	Phulkari of Punjab	Lecture, Physical Samples	CO1
6	TLO1.6 Identify ornamentation style and threads used	Gota-Patti Work of Rajasthan	Lecture, Sample Display	CO1
7	TLO1.7 Understand layering techniques used in applique work	Appliqué of Orissa	Lecture, Case Study	CO1

V. LABORATORY LEARNING OUTCOMES AND PRACTICAL EXPERIENCES:

S.N.	Practical Learning Outcomes (LLOs)	Practical Title / Activity	Hrs.	CO
1	LLO1.1 Apply creative surface embellishment methods	Creative surface ornamentation: Appliqué (net, lace, blind etc.), patch laid work, bead work, ribbon work, sequins work	40	CO1
2	LLO2.1 Construct a finished article incorporating Indian embroidery styles	Create one product: • Either by compiling 4–5 state embroideries	40	CO1, CO3
		Or by using a single state's traditional embroidery		

VI. SUGGESTED MICRO PROJECTS / ASSIGNMENTS / ACTIVITIES :

- Prepare an embroidery sample file with traditional motifs from 5 different states.
- Document a photo journal or poster on artisans practicing state-wise embroideries.
- Design a contemporary accessory or garment inspired by any one traditional embroidery style.
- Develop mood boards for a fashion collection incorporating mixed traditional embroidery.
- Visit a local craft fair or artisan center and submit a field report.

VII. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table):

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %
1	Ι	Traditional Indian Embroideries (Kantha	CO1	10	20
		to Appliqué)			
2	II	Contemporary Surface Ornamentation	CO2	40	40
		Techniques			
3	III	Final Product Development Using Embroidery	CO3	30	40
		Tota	l	80	100

VIII. COURSE OUTCOMES - PROGRAM OUTCOMES (CO-PO) MATRIX:

	Programme Outcomes (POs)							
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability & Environment	PO-6 Project Management	PO-7 Life long Learning	
CO1	3	2	2	1	3	1	2	
CO2	3	3	3	2	2	2	2	
CO3	3	2	3	2	3	3	2	
Legends:- High:03, Medium:02, Low:01								

IX. SUGGESTED LEARNING MATERIALS / BOOKS:

S.N.	Author	Title	Publisher / ISBN
1	Shailaja D. Naik	Traditional Embroideries of India	APH Publishing, ISBN: 9788176486257
2	Sheila Paine	Embroidery from India and Pakistan	British Museum Press, ISBN: 9780714117663
3	Usha R. Balakrishnan	Textiles and Weavers of India	Marg Publications, ISBN: 9788185026663
4	Asha Rani Mathur	Costumes and Textiles of Royal India	Lustre Press/Roli Books, ISBN: 9788174364472

X. LEARNING WEBSITES & PORTALS:

S.N.	Link / Portal	Description
1	https://www.indianembroidery.com	Informative portal on Indian embroidery traditions
2	https://www.craftrevival.org	Encyclopedia of Indian crafts and artisans
3	https://nift.ac.in	National Institute of Fashion Technology – resources on textiles and embroidery
4	https://www.indianculture.gov.in	Government portal showcasing traditional Indian crafts

GARMENT FABRICATION-II

Subject Code : 112005 **No. of Credits :** 2 (TH:0,T:0,P:5)

I. RATIONALE:

A strong foundation in garment construction is essential for a diploma holder in Garment Technology. Knowledge and hands-on experience of different garment components such as sleeves, collars, yokes, cuffs, waistbands, linings, and interlinings, along with complete garment construction like aprons, frocks, and tops, enables the student to create functional and aesthetically pleasing apparel. This course develops essential skills required to support industry demands and individual creativity.

II. INDUSTRY/EMPLOYER EXPECTED OUTCOME:

This course enables students to:

- Understand and construct various garment components with accuracy.
- Select fabrics suitable for functionality and style under guidance.
- Construct basic garments (e.g., frock, top, apron) integrating learned components.
- Combine technical knowledge and creativity in garment construction.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

Upon successful completion of this course, the students will be able to:

- CO1 Construct various garment components such as waistbands, yokes, sleeves, collars, cuffs, linings, and interlinings.
- CO2 Develop finished sample garments such as aprons, kids frocks, and tops considering design, functionality, and fabric suitability.

IV. LAB LEARNING OUTCOMES AND ALIGNED COURSE CONTENT:

S. N.	Practical Learning Outcomes (LLOs)	Practical Activity / Sample Construction	Hours	СО
1	LLO1.1 Stitch and finish waistbands and bows	Construction of Waistband & Decorative Bows	8	CO1
2	LLO1.2 Construct different types of yokes	Preparation of Yoke Samples	8	CO1
3	LLO1.3 Stitch different sleeve variations	Preparation of Sleeve Samples	8	CO1
4	LLO1.4 Stitch and finish various collars	Construction of Collar Samples	8	CO1
5	LLO1.5 Construct and attach cuffs with fusing	Preparation of Cuff Samples with Fusing	8	CO1
6	LLO1.6 Apply lining and interlining techniques	Samples of Lining and Interlining Types	8	CO1
7	LLO2.1 Construct functional and decorative utility wear	Apron Construction Sample	8	CO2
8	LLO2.2 Construct a kids' casual frock	Kids Frock – Casual Wear	12	CO2
9	LLO2.3 Stitch a women's top	Construction of Top	12	CO2

V. SUGGESTED MICRO PROJECTS / ASSIGNMENTS / ACTIVITIES :

- Develop a sample booklet showcasing the variations of yokes, collars, and cuffs with descriptions.
- Create a fabric swatch card suitable for different garment components.
- Design a basic garment layout using a combination of 3 or more component samples.
- Prepare a presentation comparing fabric behavior in different component applications (e.g., interfaced collar vs. non-interfaced).
- Redesign a kids' frock integrating a decorative yoke and unique sleeve design.

VI. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table):

S. N.	Unit	Unit Title		Learning Hours (L+T)	
1	I	Garment Component Construction (Sr. No. 1 to 6)	CO1	48	50
2	2 II Garment Construction (Sr. No. 7 to 9)		CO2	32	50
				80	100

VII. CO - PO MAPPING MATRIX:

	Programme Outcomes (POs)							
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life long Learning	
CO1	3	2	3	2	2	2	2	
CO2	3	2	3	2	2	3	2	
Legends :-	High:03, M	edium:02,	Low:01					

VIII. SUGGESTED LEARNING MATERIALS / BOOKS:

S.N.	Author	Title	Publisher with ISBN Number
1	Zarapkar	System of Cutting	Navneet Publications, ISBN: 9788184819112
2	Jindal, Ritu	Handbook of Fashion Designing	Abhishek Publications, ISBN: 9788170207097
3	Armstrong, Helen Joseph	Patternmaking for Fashion Design	Pearson Education, ISBN: 9789332518116
4	Abling, Bina	Fashion Sewing	Fairchild Books, ISBN: 9781501328190

IX. LEARNING WEBSITES / PORTALS:

S.N.	Link / Portal	Description
1	https://nptel.ac.in	Online fashion and textile design lectures
2	https://www.textilelearner.net	Tutorials and techniques on garment making
3	https://www.sewguide.com	Free online sewing lessons with diagrams
4	https://moodfabrics.com/blog	Sewing guides and fashion construction tips

BASIC PATTERN MAKING-II

Subject Code : 112006 **No. of Credits :** 3 (TH:3,T:0,P:3)

I. RATIONALE:

Pattern making forms the foundation of garment construction in the garment industry. This course enables students to build upon the basics by introducing terminology, bodice measurements, skirt terminologies, and adaptations of patterns for different age groups. Practical exercises help students convert flat patterns into functional garment components and interpret designs effectively.

II. INDUSTRY/EMPLOYER EXPECTED OUTCOME:

After completing this course, students will be able to:

- Understand and apply key pattern-making terminologies.
- Develop basic blocks for children and adults.
- Adapt children's bodice blocks into various skirt and frock styles.
- Create adult bodice and sleeve blocks.
- Interpret and realize design ideas into actual patterns suitable for production.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

Upon successful completion of this course, the student will be able to:

- CO1 Understand fundamental pattern-making terms and concepts.
- CO2 Draft and adapt children's bodice blocks to different skirt and frock styles.
- CO3 Construct adult bodice and sleeve blocks.
- CO4 Interpret design concepts into production-ready patterns.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT:

S. N.	Theory Learning Outcomes (TLOs)	Mapped Learning Content	Suggested Learning Pedagogies.	No. of Lectures	СО
1	TLO1.1 Define and explain pattern making terms and tools	Pattern Making Terms: pattern, drafting, flat pattern making, basic pattern set, templates, working/production pattern, specification sheet, grain, warp, weft, selvedge, bias, dart, apex, dart intake, plumb line, pivotal point, etc.	Lecture, Diagram Sheets, Sample Display	24	CO1
2	TLO1.2 Identify and measure bodice length components	Bodice Lengths	Lecture, Measurement Demo	12	CO1
3	TLO1.3 Recognize skirt parts and terminology	Terminology of Skirts	Lecture, Visual Reference Charts	12	CO1

V. PRACTICAL LEARNING OUTCOMES AND ALIGNED EXPERIENCES:

S. N.	Practical Learning Outcomes (LLOs)	Practical Activity / Exercise	Hourse	СО
1	LLO2.1 Adapt child's bodice to different skirt styles	Adaptation to skirt types: Basic, A- line, Half-circular, Full-circular, Gathered, Layered, Tiered	08	CO2
2	LLO2.2 Adapt child's bodice to various frock styles	Adaptation to frock types: A-Line, Formal, Jhabla, High-Waisted, Yoked	08	CO2
3	LLO2.3 Apply layout techniques for efficient cutting	Concept of Pattern Layout	08	CO2
4	LLO3.1 Draft basic bodice block for adults	Adult Bodice Block	08	CO3
5	LLO3.2 Draft adult sleeve block	Adult Sleeve Block	08	CO3
6	LLO4.1 Analyze and create patterns from given designs	Style Interpretation of any given design	08	CO4

VI. SUGGESTED MICRO PROJECTS / ASSIGNMENTS / ACTIVITIES :

- Prepare a visual glossary or flash cards for pattern-making terms.
- Create a file containing children's skirt and frock adaptations with illustrations.
- Redraft an existing garment's pattern through reverse engineering.
- Create a basic style interpretation file with technical sketches and draft layout.
- Analyze pattern layout wastage on different fabric widths and submit a report.

VII. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table):

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %	
1	I	Pattern Making Terms, Bodice & Skirt	CO1	48	100	
	Terminology Total 48 100					

VIII. COURSE OUTCOMES - PROGRAM OUTCOMES (CO-PO) MATRIX:

		Programme Outcomes (POs)						
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life long Learning	
CO1	3	2	2	1	1	1	2	
CO2	3	2	3	2	2	2	2	
CO3	3	2	3	2	2	2	2	
CO4	3	3	3	3	2	3	2	
Legends :-	Legends:- High:03, Medium:02, Low:01							

IX. SUGGESTED LEARNING MATERIALS / BOOKS:

S.N.	Author	Title	Publisher / ISBN
1	Armstrong,	Patternmaking for Fashion	Pearson Education,
	Helen Joseph	Design	ISBN: 9789332518116

2	Winifred Aldrich	Metric Pattern Cutting for Children's Wear and Babywear	Wiley-Blackwell, ISBN: 9781405136204
3	Jindal, Ritu	Handbook of Fashion Designing	Abhishek Publications, ISBN: 9788170207097
4	Zarapkar	System of Cutting	Navneet Publications, ISBN: 9788184819112

X. LEARNING WEBSITES & PORTALS:

S.N.	Link / Portal	Description
1	https://nptel.ac.in	Online courses in fashion and textile design
2	https://www.sewguide.com	Free pattern drafting and garment construction tutorials
3	https://www.textilelearner.net	Guides and techniques in pattern making
4	https://moodfabrics.com/blog	Pattern layout tips, style interpretation resources

BASIC COMPUTER EDUCATION-II

Subject Code : 102007 **No. of Credits :** 2 (TH:0,T:0,P:3)

I. RATIONALE:

Basic computer education has great influence on all aspects of life. Almost all workplaces and living environments are being computerized. In order to prepare diploma holders to work in these environments, it is essential that they are exposed to various aspects of information technology such as understanding the concept of information technology and its scope, operating a computer, use of various tools of MS Office, using the internet, etc. This exposure enables students to enter their profession with confidence, live in a harmonious way, and contribute to productivity.

II. INDUSTRY / EMPLOYER EXPECTED OUTCOME:

Use modern computing tools such as spreadsheets, presentation software, internet services, and basic networking knowledge to accomplish professional communication, documentation, and data management tasks effectively.

III. COURSE LEVEL LEARNING OUTCOMES (COs):

Students will be able to:

CO1: Operate spreadsheet software and apply formulas, functions, and charting tools.

CO2: Design and deliver presentations using multimedia elements and templates.

CO3: Understand basic ICT concepts including networks and topologies.

CO4: Use advanced internet services such as file transfer, storage, and conferencing.

IV. THEORY CONTENT OUTLINE:

S. N.	Theory Learning Outcomes (TLOs) aligned to COs	Learning content mapped with Theory Learning Outcomes (TLOs) & COs.	Suggested Learning Pedagogies.	СО
1	TLO1.1: Explain the elements and operations of spreadsheet software.	Unit I: Spread Sheet: Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus, Manipulation of cells: Enter texts numbers and dates, Cell Height and Widths, copying of cells, Mathematical, Statistical and Financial function, Drawing different types of charts.	Demonstration, Hands-on lab sessions, Practice worksheets.	CO1
2	TLO2.1: Create and enhance multimedia presentations.	Unit II: Presentation Software: Creating, modifying and enhancing a presentation, delivering a presentation, Using sound, animation and design templates in presentation	Instructor-led demos, Peer evaluation, Project-based presentation.	CO2
3	TLO3.1: Describe the fundamentals of ICT and computer networks.	Unit III: ICT Fundamentals: Basics of Information Communication Technology, Computer Networks and their advantages, Types of Computer Network, Network Topologies, Basics of Transmission Media.	Lecture, Visual diagrams, Concept mapping.	CO3
4	TLO4.1: Use advanced internet services for file sharing and communication.	Unit IV: Internet Advanced Services: Downloading/uploading files using ftp/telnet, Chatting, Video conferencing, Online storage of data on Google and Yahoo.	Practical demonstrations, Group discussions, Real-time exploration.	CO4

V. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL EXPERIENCES:

S. N.	Practical/Tutorial/Laboratory Learning Outcome (LLO)	Laboratory Experiment/ Practical Titles / Tutorial Titles	No of Hrs	Relevant Cos
1	LLO1.1: Create and format spreadsheets using cell operations, formulas, and functions.	Generate an electricity bill, salary statement, and student mark sheet using spreadsheet software.	8	CO1
2	LLO1.2: Apply statistical and financial functions in spreadsheet tools.	Use formulas like SUM, AVERAGE, IF, PMT, etc., to perform data analysis in Excel.	8	CO1
3	LLO2.1: Design a structured presentation using templates and multimedia elements.	Create a presentation on "College Education System" using three methods: blank, template, auto content wizard.	8	CO2
4	LLO2.2: Enhance presentation with animations and transitions.	Make a presentation on "Wildlife" applying color schemes and animation effects.	8	CO2
5	LLO3.1: Explain and demonstrate basic ICT components and network topologies.	Identify LAN, WAN, star, and ring topology through diagrams and demonstrations.	10	CO3
6	LLO4.1: Demonstrate the use of advanced internet services.	Upload/download files using FTP, explore Google Drive, perform video conferencing using Zoom or Meet.	6	CO4

VI. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table):

S. N.	Unit	Unit Title	Aligned COs	Learning Hours (L+T)	Weightage %
1	I	I Spreadsheet Software		16	30%
2	2 II Presentation Software		CO2	16	30%
3	3 III ICT Fundamentals		CO3	10	25%
4	IV	Internet Advanced Services	CO4	6	15%
		Total	48	100	

VII. SUGGESTED COS - POS MATRIX FORM:

		Programme Outcomes (POs)					
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Develop- ment of Solutions	PO-4 Engin- eering Tools	PO-5 Engineering Practices for Society, Sustainability &Environment		PO-7 Life long Learning
CO1	3	2	2	3	2	2	2
CO2	3	2	3	3	2	2	2
CO3	2	3	2	2	3	1	2
CO4	2	3	2	3	3	2	2
Legends: -	High:03, M	edium:02,	Low:01				

VIII. SUGGESTED LEARNING RESOURCES:

S.N.	Author	Title	Publisher
1	BPB Publications Russell A. Stultz	Microsoft Office – Complete Reference	BPB Publication; ISBN varies by edition
2	P.K. Sinha &	Learn Microsoft Office	BPB Publication; ISBN varies
3	Priti Sinha	Computer Fundamentals	BPB Publication; ISBN: 9788176567527

IX. LEARNING WEBSITES & PORTALS:

S.N.	Link / Portal	Description
1	https://www.nptel.ac.in	Government portal offering free IT and computer science courses
2	https://www.microsoft.com/en-us/learning	Microsoft Office tutorials and certifications
3	https://www.khanacademy.org	Computer fundamentals and internet basics
4	https://www.gcflearnfree.org	Free lessons on Office, Internet, and email
5	https://www.tutorialspoint.com	Online tutorials on Excel, PowerPoint, and networking basics
6	https://www.youtube.com	Practical videos and tutorials for spreadsheet, PowerPoint, FTP, etc.
7	https://www.w3schools.com	Additional tutorials for internet and basic web technologies