

GOVERNMENT POLYTECHNIC, PUNE

'120 – NEP' SCHEME

PROGRAMME	DIPLOMA IN DDGM
PROGRAMME CODE	08
COURSE TITLE	GRAPHIC DESIGN
COURSE CODE	DD 31201
PREREQUISITE COURSE CODE & TITLE	NA

I. LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Course Category/s	Learning Scheme						Assessment Scheme											
			Actual Contact Hrs./Week			SLH	NLH	Credits	Paper Duration	Theory			Based on LL & TSL				Based on SL		Total Marks	
			CL	TL	LL					Practical			FA-PR		SA-PR		SLA			
										FA-TH	SA-TH	Total	Max	Min	Max	Min	Max	Min		
DD31201	GRAPHIC DESIGN	SEC	0	0	4	2	6	3	0	0	0	0	0	50	20	50@	20	25	10	125

Total IKS Hrs for Term: 0 Hrs

Abbreviations: CL-Classroom Learning, TL-Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS – Indian Knowledge System, SLA- Self Learning Assessment

Legends: @-Internal Assessment, # - External Assessment, *# - Online Examination, @\$ - Internal Online Examination

Note:

FA-TH represents an average of two class tests of 30 marks each conducted during the semester.

1. If a candidate is not securing minimum passing marks in FA-PR (Formative Assessment - Practical) of any course, then the candidate shall be declared as 'Detained' in that Course.
2. If a candidate does not secure minimum passing marks in SLA (Self Learning Assessment) of any course, then the candidate shall be declared as 'fail' and will have to repeat and resubmit SLA work.
3. Notional learning hours for the semester are (CL + LL + TL + SL) hrs. * 15 Weeks
4. 1 credit is equivalent to 30 Notional hours.
5. * Self-learning hours shall not be reflected in the Timetable.
- 6.* Self-learning includes micro-projects/assignments/other activities.

II. RATIONALE:

The use of vector-based platforms in clothing & designing is an inseparable part, of preparing students for a career in the fashion industry. Diploma students work as designers and technicians in the clothing industry & implement the skills of garment designing Using graphic software. It saves time, permits easy modifications, enhance creativity and promote a fashion products on a global platform.

III. COURSE LEVEL LEARNING OUTCOMES (CO's)

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

- CO1 - Apply the CorelDraw tools for illustrating textile prints, garment elements and textures in garment designing.
- CO2 - Develop croquis kit with clothing categories as considering fashion forecasting.
- CO3 - Create garment trimmings & fonts for typography using the brushes.
- CO4 - Develop Silhouettes and flat sketches for clothing categories.
- CO5 - Prepare advertisements for Print media with logos and Unique selling points for product promotion.
- CO6 - Enhance garment designing with the tools such as brushes, garment library and accessories.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT- Not Applicable

V. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL/TUTORIAL EXPERIENCES. -

V.

Sr. No	Practical/Tutorial/Laboratory Learning Outcome (LLO)	Laboratory Experiment / Practical Titles / Tutorial Titles	Number of hrs.	Relevant COs
1	LLO 1.1 Operate the graphics software. LLO 1.2 Identify the tools for the operations to be performed. LLO 1.3 Identify the interface for the given sample. LLO 1.4 Identify the short cut keys for the software.	1.1 Practicing of CorelDraw & Illustrator tools and Interface. 1.1.1 Getting Started 1.1.2 Moving Around and Viewing Drawings 1.1.3 Customizing Options 1.1.4 Drawing and Shaping Objects 1.1.5 Selecting & Manipulating Objects 1.1.6 Transforming Objects 1.1.7 Outlining & Filling Objects 1.1.8 Arranging Objects 1.1.9 Using Layers 1.1.10 Special Effects 1.1.11 Working with Text 1.1.12 Using Symbols and Clip art 1.1.13 Draw, Select, navigate, & Modify tools of Illustrator	06	CO1
2	LLO 2.1 Identify the drawing tools for repeats and textile prints. LLO 2.2 Develop motifs and textile prints with drawing and coloring tools.	Types of Motif Creation (Minimum Two) 2.1. Types of repeats. 2.1.1 Block 2.1.2 Brick 2.1.3 Step 2.1.4 Full drop 2.1.5 Half drop 2.2 Types of textile prints with repeats (Minimum one) 2.2.1. Geometrical Print 2.2.2 Conversational print 2.2.3 Floral 2.2.4 Ethnic 2.2.5 Conversational 2.2.6 Geometrical 2.2.7 Abstract	12	CO2
3	LLO 3.1 Read the various body proportions. LLO 3.2 Draw Proportionate mechanical croquis LLO 3.3 Flesh mechanical croquis	3.1 Draw a Mechanical croquis with proportions. Front view. (Minimum One each). 3.1.1 Male 3.1.2 Female 3.1.3 Kid 3.2 Fleshing of above mechanical croquis	14	CO3
4	LLO 4.1 Identify the various types of LLO 4.2 Illustrate the suitable silhouette for the given sample. LLO 4.3 Differentiate silhouettes.	4.1 Draw types of fashion silhouettes. (Any Five) 4.1.1 Triangle 4.1.2 Inverted triangle 4.1.3 Rectangle	08	CO4

		4.1.4 Hourglass 4.1.5 Ample 4.1.6 Wedge 4.1.7 Trapeze 4.1.8 Bell 4.1.9 Trumpet 4.1.10 Egg 4.1.11 A-line 4.1.12 Sheath		
5	LLO 5.1 Identify the elements of costumes. LLO 5.2 Identify the appropriate tools to draw the elements . LLO 5.3 Illustrate garments elements by using graphic tools.	5.1 Dress up croquis. 5.1.1. Dress up Croquis by using types of silhouettes. (Any three types silhouettes) 5.1.2 Draw details of garments like pleats, folds etc.	16	CO5
6	LLO 6.1 Identify the textures required for fashion Illustration. LLO 6.2 Select drawing tools for textures. LLO 6.3 Use the coloring tools for effects. LLO 6.4 Develop the textures required for Fashion Illustration.	6.1 Apply textures on garments 6.1.1 Textures -effects.(Minimum Three) 6.1.2 Bandhej /Batik 6.1.3 Fur / Velvet 6.1.4 Transparency 6.1.4 Jeans/ Corduroy 6.1.5 Shirring 6.1.6 Brocade 6.1.7 Embroidery	08	CO6
Note: Use of CorelDraw/ Illustrator or any other Open source software's or applications available.				

VI.

VII. VI. SUGGESTED MICRO PROJECT/ASSIGNMENT/ACTIVITIES FOR SPECIFIC LEARNING/SKILLS DEVELOPMENT (SELF-LEARNING)-

VIII. Micro Project-

1. Visit a designing department in garment industry.
2. Write a report on designing apps and software used.
3. Prepare a report on use of digital designing in garment industry.
4. Design a front page for website.

IX. Assignments-

1. Develop a print for screen printing of a T-shirt.

X. 2. Create 3D Objects by using perspective grid.

XI.3. Design a jewelry collection.

XII. 4.Design a cover page or leaflet for fashion magazine.

XIII. 5. Use any graphic application/software and create a tech pack or spec sheet.

XIV.

XV. VII. LABORATORY EQUIPMENT / INSTRUMENTS / TOOLS / SOFTWARE REQUIRED**XVI.**

Sr.No	Equipment Name with Broad Specifications	Relevant LLONumber
1	System requirement- Desktop 32GB DDR4 RAM 1TB SSD, Windows 10 64 bits onwards 7th Gen Intel Core i7 6700 3.4Ghz 8MB, Support 4K (3840x2160) Dual display, EPYC, 1280*720 SCREEN RESOLUTION AT 100% (96 dpi) Keyboard, mouse (any).	All
2	CorelDraw Subscription License, Complete suite-of professional graphics & applications, Graphics & Illustrations, photo editing, page layout, typography. Software latest version.2023 (System Setup required for the software)- Internet connection is required to install and authenticate CorelDraw Graphics suite and access some of the included software components, online features, and content.	1,2,3,4,5,6
3	Illustrator latest version OR Illustrator 28.0- Creative Cloud.	1,2,3,4,5,6

XVII.**VIII. SUGGESTED FOR WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE**

(Specification Table)- Not Applicable.

XVIII.**XIX. IX. ASSESSMENT METHODOLOGIES/TOOLS-**

Formative assessment (Assessment for Learning)	Summative Assessment (Assessment of Learning)
1. Term Work	1. End Term Practical Examination

XX.**XXI. X. SUGGESTED COS- POS MATRIX FORM**

Course Outcomes (COs)	Programme Outcomes (POs)							Programme Specific Outcomes *(PSOs)	
	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Lifelong Learning	PSO-1	PSO-2
CO1	01	-	02	02	01	-	01	-	01
CO2	01	-	02	02	01	-	01	-	01
CO3	01	01	02	02	01	-	01	-	01
CO4	01	-	02	02	01	-	01	-	01
CO5	01	01	02	02	01	-	01	-	01
CO6	01	-	02	02	01	-	01	-	01

Legends: - High:03, Medium:02, Low:01, No Mapping:


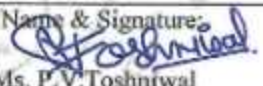


*PSOs are to be formulated at the institute level

XXII. XLSUGGESTED LEARNING MATERIALS/BOOKS

Sr.No	Author	Title	Publisher
1	Corel Draw Wow Book	Linnea Dayton, Shan Hunt & Sharon Stever	Destok Publication ISBN 0-201-88632-4
2	Corel Draw	L.P.Editorial Board	Law point Publication ASIN:B00RXALYV4
3	Fashion Designer's Handbook for Adobe Illustrator	Marianne Centner	John Wiley and Sons 1st edition 1 March 2007 ISBN- 10:1405160551 ISBN-13:978-1405160551
4	Illustrator CS6 in simple Steps Paperback	Kogent Learning solution	Dreamtech Press ISBN-10:9350045966 ISBN-13:978- 9350045961
5	DT Editorial Services	CorelDRAW 2018 in Simple Step	Step -ISBN 13 9789388425254

XII. LEARNING WEBSITES & PORTALS

Sr.No	Link / Portal	Description
1	https://www.coreldraw.com/coreldraw/graphicsuite	Coreldraw tools
2	http://www.creativebloq.com/digital-art/illustrator-tutorials-1232697	Illustrator tools.
3	https://helpx.adobe.com/illustrator/tutorials.html	Illustrator tools.
4	https://www.coreldraw.com/static/cdgs/pdfs/cdgs/x4/Ariel_IFE_EN.pdf	Mesh tool- Coral Draw
5	https://product.corel.com/help/CorelDRAW/54011114index.html?app=CorelDRAW&lang=en#/11TOC0	CORELDRAW help
6	https://books.google.co.in/books?id=qv6K761nAC&newbks=1&newbks_redir=0&printsec=frontcover&dq=digi	GOOGLE BOOKS

Name & Signature:  Mrs. C.M. Ambikar Lecturer – DDGM	Name & Signature:  Ms. P.V. Toshniwal Lecturer – DDGM
(Course Experts)	
Name & Signature:  Mr. S.S. Prabhune (Programme Head)	Name & Signature:  Shri. S.B. Kulkarni (CDC In-charge)

GOVERNMENT POLYTECHNIC, PUNE

'120 – NEP' SCHEME

PROGRAMME	DIPLOMA IN DDGM
PROGRAMME CODE	08
COURSE TITLE	GARMENT CONSTRUCTION TECHNIQUES: WOMEN
COURSE CODE	DD31202
PREREQUISITE COURSE CODE & TITLE	NA
CLASS DECLARATION COURSE	NO

I. LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Course Type	Learning Scheme					Credits	Paper Duration	Assessment Scheme										Total Marks
			Actual Contact Hrs./Week			SLH	NLH			Theory	Based on LL & TSL				Based on SL					
			CL	TL	LL						Practical									
											FA-PR		SA-PR			SLA				
											FA-TH	SA-TH	Total	FA-PR			SA-PR	SLA		
Min	Max	Max	Min	Max	Min	Max	Min	Max	Min											
DD31202	GARMENT CONSTRUCTION TECHNIQUES: WOMEN	DSC	4	-	4	-	8	4	3	30	70	100	40	25	10	50@	20	-	-	175

Total IKS Hrs. for Term: 2 Hrs.

Abbreviations: CL-Classroom Learning, TL-Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA - Summative assessment, IKS – Indian Knowledge System, SLA- Self Learning Assessment

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 - Notional learning hours for the semester are (CL + LL + TL + SL) hrs. * 15 Weeks
 - 1 credit is equivalent to 30 Notional hours.
 - * Self-learning hours shall not be reflected in the Timetable.
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II. RATIONALE:

This course is designed to provide a thorough understanding and proficiency in designing and crafting women's garments. It encompasses a broad spectrum of skills, from conceptualization to construction, with a focus on the diverse needs of the women's apparel industry. Students will learn to adeptly utilize pattern drafting and garment assembly techniques, advancing from foundational to intricate methodologies. Additionally, the course emphasizes market awareness and responsiveness to the ever-evolving demands within the women's fashion landscape.

III. COURSE LEVEL LEARNING OUTCOMES (COs)

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

- CO1- Understand the need and types of women's garments.
- CO2 - Identify the physical changes, size charts and pattern-making principles used for women's garment construction.
- CO3-Recognize various aspects of women's garment designing and construction.
- CO4- Analyze the importance of tools, machinery and equipment used in the women's garment construction industries.
- CO5 - Appreciate the women's garment fitment issues and their remedial actions.
- CO6-To Recognize the women's garment construction and accessories market, its trends, opportunities and challenges.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT

Sr. No	Theory Learning Outcomes (TLO's) aligned to CO's.	Learning content mapped with TLO's.	Suggested Learning Pedagogies	Relevant COs
UNIT 1. UNDERSTANDING WOMEN'S CLOTHING (CL 10 Hrs, Marks 10)				
1.	<p>TLO 1.1 State the importance of the women's garment manufacturing industry.</p> <p>TLO 1.2 Enlist the requirements for women's garment</p> <p>TLO 1.3 Describe the evolution of women's garments and the technology used.</p> <p>TLO 1.4 Enlist and explain the types of women's garments used.</p>	<p>1.1 Introduction to Women's Wear</p> <p>1.2 Need for Women's Clothing</p> <ul style="list-style-type: none"> • Self-Expression • Cultural and Social Significance • Comfort and Functionality • Confidence and Empowerment • Career and Professionalism • Fashion and Trends • Identity and Gender Expression • Health and Well-Being <p>1.3 Types of Women's Clothing</p> <ul style="list-style-type: none"> • Casual Wear • Formal Wear • Athletic Wear • Intimate Wear • Bridal Wear • Outer Wear • Maternity Wear • Special Purpose Clothing 	Demonstration, Flipped Classroom, Chalk-Board, Presentations, Hands-on	CO1
UNIT 2. ANALYSING WOMEN'S PHYSIQUE AND SIZE CHART (CL 10 hrs, Marks 12)				
2.	<p>TLO 2.1 Enlist the Physical changes in the women's body due to growth.</p> <p>TLO 2.2 Explain the requirements for specific age groups.</p> <p>TLO 2.3 List out preferences for garments.</p> <p>TLO 2.4 Enlist the various Size charts and labels available.</p> <p>TLO 2.5 Describe the procedure for recording body measurements using various techniques.</p> <p>TLO 2.6 State the importance of taking accurate measurements in garment construction.</p>	<p>2.1 The Physical Growth of Women's Body</p> <p>2.2 Gender-specific requirements, references by women.</p> <p>2.3 Types of Measurements, Size Charts and Labels Used for Women's Wear.</p> <p>2.4 Principles of Pattern Making</p> <p>Types of Paper Patterns (list)</p> <ul style="list-style-type: none"> • Style Lines (Armhole, Princess Line and Empire Line) • Principle of Added Fullness (Equal, Unequal and One-sided fullness) • Principle of Contouring (Corset, Katori blouse) 	Demonstration, Flipped Classroom, Chalk- Board, Presentations, Hands-on	CO2

UNIT-III DESIGNING WOMEN'S GARMENTS (CL Hrs-10, Marks-12)

3	<p>TLO 3.1 Enlist points to be considered while designing women's garments.</p> <p>TLO 3.2 Enlist and explain points to be considered while sewing women's garments.</p> <p>TLO 3.3 Enlist and explain various types of Kid's garments and their purposes.</p> <p>TLO3.4 Analyse and explain elementary patterns used in women's garments.</p> <p>TLO3.5 Describe the Considerations while Buying Comfortable Women's Clothing.</p>	<p>3.1 Designing Women's Garments</p> <ul style="list-style-type: none"> • Textiles and Trims - Use of Type of Fabric (Fibers/ Yarns), Motifs/ Prints, Texture, Colour, Aesthetics, Trims and quality parameters) • Patterns- Use of Collars, Sleeves, Plackets, Accessories, Fasteners, Embellishments, Lining etc. • Tips for safe Garment Sewing (application of Seams and Seam finishes) <p>3.2 Factors Affecting Selection of Clothing</p> <ul style="list-style-type: none"> • Age • Climate and Season • Occasion • Fashion • Income • Ease of Dressing and Understanding • Selection of Fabric • Application of Fasteners and Trimmings <p>3.3 Points to be considered while constructing women's wear</p> <ul style="list-style-type: none"> • Understanding the Target Audience • Comfort and Fit • Fabric Selection • Color and Pattern • Detailing and Embellishments • Functionality and Versatility • Construction Techniques • Sustainability and Ethical Practices • Accessibility and Inclusivity 	<p>Demonstration, Flipped Classroom, Chalk-Board, Presentations, Hands-on</p>	CO3
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UNIT -IV WOMEN'S GARMENT CONSTRUCTION SYSTEM(CL Hrs-10, Marks-12)

4	<p>TLO 4.1 Identify various Tools, types of machinery, and equipment used in Apparel Manufacturing.</p> <p>TLO 4.2 Identify the need and usage of the machinery, and equipment used in Apparel Manufacturing.</p> <p>TLO 4.3 Compare the different types of Pattern Grading Techniques.</p>	<p>4.1 Tools and Equipment Used for Women's Garments Construction</p> <ul style="list-style-type: none"> • General Tools – Sewing Threads, Pins and Cushions, Dummy, Mirror, Hangers, Drill Marker, Knotcher Etc. • Measuring Tools- Measuring Tape, Seam Gauge, Yardstick or Meter Stick, Transparent Ruler, And Skirt Marker • Marking Tools- Tracing Wheel, Dressmakers Tracing Paper and Tailors Chalk • Cutting Tools- Shears & Scissors, Scaloping Shears, Cutting Table, Straight Knife Cutting Machine, Round Knife Cutting Machine and Laser Cutting Machine • Lay-marking Techniques- Manual And By Machines • Pattern Grading Techniques- Manual (Slash and Spread, Pivot Method) and Automatic • Sewing Machines- Lock Stitch Machine, Overlock Machine, Button Fixing Machine, Button Hole Machine, Blind Stitch Machine, Embroidery Machine, Flat Lock Machine, Bar Tack Fusing Machine • Sewing Machine Attachments- Roller Foot, Binding Foot, Zipper Foot, Cording Foot, Shirring Foot, Gathering Foot and Seam Gauge, • Pressing Equipment- Charcoal Iron, Electric Iron, Stam Iron • Packaging Material Used- Bagging, Boxing 	<p>Demonstration, Flipped Classroom, Chalk-Board, Presentations, Hands-on</p>	CO4
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UNIT –V GARMENT FIT: PROBLEMS AND REMEDIAL ACTIONS(CL Hrs-10, Marks-12)				
5	<p>TLO 5.1: Identify fitting issues and remedial actions for Women's Wear.</p> <p>TLO 5.2: Define Good Fit in the garment.</p> <p>TLO 5.3: Identify various fitting problems of women's garments.</p> <p>TLO 5.4: Rectify identified fitting problems by the Slash and spread method.</p>	<p>5.1 Identify and Analyze Fitting Problems Associated with Women's Garments and Apply Remedial Actions for the Following Figure Abnormalities (Slash and Spread).</p> <ul style="list-style-type: none"> • Erect Figure • Stopping Figure • Corpulent Figure • Square Shoulder • Sloping Shoulder • Pigeon Chest • Hollow Chest • Bow Knees • Knock Knees • Smile Lines • Frown Lines • Gaping Necklines 	<p>Demonstration, Flipped Classroom, Chalk-Board, Presentations, Hands-on</p>	CO5
UNIT- VI INSIGHT OF WOMEN'S GARMENT MARKET(CL Hrs-10, Marks-12)				
6	<p>TLO 6.1: Identify the importance of Women's Clothing in the Economy of India.</p> <p>TLO 6.2: Enlist National and international brands available for Women's Wear.</p> <p>TLO 6.3: Enlist and explain trends and forecasts in Women's Wear.</p> <p>TLO 6.4: Enlist and explain the challenges, and opportunities in Women's Wear.</p> <p>TLO 6.5: Analyze the importance of Accessories in Women's Garments.</p>	<p>6.1 Importance of Women's Clothing in the Economy of India</p> <p>6.2 Study of Brands for Women's Wear</p> <p>6.3 Current Trends in Women's Wear</p> <p>6.4 Women's Clothing Market Overview</p> <ul style="list-style-type: none"> • Challenges • Opportunities • Forecasting <p>6.5 Importance of Accessories in Women's Garments</p>	<p>Demonstration, Flipped Classroom, Chalk-Board, Presentations, Hands-on</p>	CO6

V. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL/TUTORIAL EXPERIENCES.

Sr. No	Practical/Tutorial/Laboratory Learning Outcome (LLO)	Laboratory Experiment / Practical Titles /Tutorial Titles	Number of hrs.	Relevant COs
1	LLO 1.1. Identify tools for measuring, marking, drafting & cutting and use of these tools with safety. LLO 1.2 Explain the measuring units and measuring techniques for required measurements. LLO 1.3 Draft the pattern for women's garments. LLO 1.4 Use the paper economically - Check for shapes, front, back, shoulder, and side.	Draft a basic women's <ul style="list-style-type: none"> • Skirt Block • Trouser block • Jeans block • Shirt block using a manual flat pattern. Write all the information (Folds, Seam allowance, Grains, Cutting detail of the pattern pieces).	06	1,2,3,4,6
2	LLO 2.1. Identify tools for measuring, marking, drafting & cutting and use of these tools with safety. LLO 2.2 Explain the measuring units and measuring techniques for required measurements. LLO 2.3 Draft the pattern for women's garments. LLO 2.4 Use the paper economically - Check for shapes, front, back, shoulder, and side.	Draft a pattern for the Corset/ Camisole accommodating the following features- <ul style="list-style-type: none"> • Suitable opening and fasteners • Trimmings 	04	1,2,3,4,6
3	LLO 3.1 Cut the pattern using shears properly along the cutting line - Check the cutting edges. LLO 3.2 Finish the pattern with pattern particulars. LLO 3.3 Follow the safe measures and guard policy while handling scissors and sear.	Making a master pattern and fabric cutting of Corset/ Camisole accommodating the following features- <ul style="list-style-type: none"> • Suitable opening and fasteners • Trimmings 	04	1,2,3,4,6
4	LLO 4.1 Sew the garment by applying the component-making techniques. LLO 4.2 Use proper sewing aids while sewing the garment. LLO 4.3 Finish the garment by applying suitable fasteners. LLO 4.4 Solve the sewing machine problems with suitable remedies after finding the causes. LLO 4.5 Follow the safe measures and needle guard policy while sewing.	Sew and finish a Corset/ Camisole accommodating the following features- <ul style="list-style-type: none"> • Suitable opening and fasteners • Trimmings 	04	1,2,3,4,5,6

5	<p>LLO 5.1 Identify tools for measuring, marking, drafting & cutting and use of these tools with safety.</p> <p>LLO 5.2 Explain the measuring units and measuring techniques for required measurements.</p> <p>LLO 5.3 Draft the pattern for women's garments.</p> <p>LLO 5.4 Use the paper economically - Check for shapes, front and back shoulder, and side.</p>	<p>Draft a pattern for Salwar/Chudidar accommodating the following features-</p> <ul style="list-style-type: none"> • Suitable opening and fasteners • Trimmings 	04	1,2,3,4,6
6	<p>LLO 6.1 Cut the pattern using shears properly along the cutting line - Check the cutting edges. LLO 6.2 Finish the pattern with pattern particulars.</p> <p>LLO 6.3 Follow the safe measures and guard policy while handling scissors and sear.</p>	<p>Prepare a master pattern and fabric cutting for Kurti accommodating the following features-</p> <ul style="list-style-type: none"> • Suitable opening and fasteners • Trimmings 	04	1,2,3,4,6
7	<p>LLO 7.1 Sew the women's garment by applying the component-making techniques.</p> <p>LLO 7.2 Use proper sewing aids while sewing the garment.</p> <p>LLO 7.3 Finish the garment by applying suitable fasteners.</p> <p>LLO 7.4 Solve the sewing machine problems with suitable remedies after finding the causes.</p> <p>LLO 7.5 Follow the safe measures and needle guard policy while sewing.</p>	<p>Sew and finish a Kurti accommodating the following features-</p> <ul style="list-style-type: none"> • Half/ Full sleeve • Shirt's collar • Suitable opening and fasteners • Trimmings 	04	1,2,3,4,5,6
8	<p>LLO 8.1 Identify tools for measuring, marking, drafting & cutting and use of these tools with safety.</p> <p>LLO 8.2 Explain the measuring units and measuring techniques for required measurements.</p> <p>LLO 8.3 Draft the pattern for women's (age group- 6 to 7 years) garments.</p> <p>LLO 8.4 Use the paper economically - Check for shapes, front and back shoulder, and side.</p>	<p>Draft a pattern for Salwar/Chudidar accommodating the following features-</p> <ul style="list-style-type: none"> • Suitable opening and fasteners • Trimmings 	04	1,2,3,4,6

9	<p>LLO 9.1 Cut the pattern using shears properly along the cutting line - Check the cutting edges.</p> <p>LLO 9.2 Finish the pattern with pattern particulars.</p> <p>LLO 9.3 Follow the safe measures and guard policy while handling scissors and sear.</p>	<p>Prepare a master pattern and fabric cutting for Salwar/ Chudidar accommodating the following features-</p> <ul style="list-style-type: none"> • Suitable opening and fasteners • Trimmings 	04	1,2,3,4,6
10	<p>LLO 10.1 Sew the women's garment by applying the component-making techniques.</p> <p>LLO 10.2 Use proper sewing aids while sewing the garment.</p> <p>LLO 10.3 Finish the garment by applying suitable fasteners.</p> <p>LLO 10.4 Solve the sewing machine problems with suitable remedies after finding the causes.</p> <p>LLO 10.5 Follow the safe measures and needle guard policy while sewing.</p>	<p>Sew and finish a Salwar/ Chudidar accommodating the following features-</p> <ul style="list-style-type: none"> • Suitable opening and fasteners • Trimmings 	04	1,2,3,4,5,6
11	<p>LLO 11.1 Identify tools for measuring, marking, drafting & cutting and use of these tools with safety.</p> <p>LLO 11.2 Explain the measuring units and measuring techniques for required measurements.</p> <p>LLO 11.3 Draft the pattern for women's garments.</p> <p>LLO 11.4 Use the paper economically - Check for shapes, front and back shoulder and side.</p>	<p>Draft a pattern for a Katori Blouse/ Choli accommodating the following features-</p> <ul style="list-style-type: none"> • Suitable opening and fasteners. • Trimmings 	04	1,2,3,4,6
12	<p>LLO 12.1 Cut the pattern using shears properly along the cutting line - Check the cutting edges.</p> <p>LLO 12.2 Finish the pattern with pattern particulars.</p> <p>LLO 12.3 Follow the safe measures and guard policy while handling scissors and sear.</p>	<p>Prepare a master pattern and fabric cutting for a Katory Blouse/ Choli accommodating the following features-</p> <ul style="list-style-type: none"> • Suitable opening and fasteners . • Trimmings 	04	1,2,3,4,6

13	LLO 13.1 Sew the women's garment by applying the component-making techniques. LLO 13.2 Use proper sewing aids while sewing the garment. LLO 13.3 Finish the garment by applying suitable fasteners. LLO 13.4 Solve the sewing machine problems with suitable remedies after finding the causes. LLO 13.5 Follow the safe measures and needle guard policy while sewing.	Sew and finish a Katory Blouse/ Choli accommodating the following features- <ul style="list-style-type: none"> • Suitable opening and fasteners • Trimmings 	04	1,2,3,4,5,6
14	LLO 14.1 Draft a basic women's bodice block in 1:4 scale for the given sample. LLO 14.2 Grade the basic women's bodice block for the given sample. LLO 14.3 Prepare a Master Pattern of women's bodice block for the given sample.	Grade the following patterns (Enlargement and Reduction) <ul style="list-style-type: none"> • Bodice Block • Sleeve Block • Skirt Block • Trouser Block 	06	1,2,3,4,6

Note: All practicals are compulsory. For practical numbers 1 and 14, conduct a visit to the women's wear garment construction industry and for practical number 2, 3 and 4 arrange a workshop or collaborative learning session.

VI. SUGGESTED MICRO PROJECT/ASSIGNMENT/ACTIVITIES FOR SPECIFIC LEARNING/SKILLS DEVELOPMENT (SELF-LEARNING)

Micro project

- Make a library collection of women's worn garments.
- Identify and rectify any Women's fitting problems from your family or neighbourhood (any five fitting problems).
- Make a collection of size charts of women's wear (any five national/ international brands)

Assignment

- Garment Finishing and Pressing: Students should press and finish seams, edges, and hems for a professional look (Under pressing and Top pressing).
- Repurposing Assignment: Students should repurpose an old garment into a new one (simple) to encourage creativity and sustainability.
- Sewing Project Portfolio: Students should document their sewing projects with photos and descriptions, creating a portfolio to showcase their work(e-Work).
- Custom Fit Assignment: Students create pattern alteration for a custom-fit garment (Use any famous personality as a client) from scratch from earlier knowledge of designing courses.
- Finishing Techniques Identification Assignment: Students should visit the brand mall, outlets, stores and boutiques to analyse brand-specific finishing techniques and sizes to compile the visit report.

VII. LABORATORY EQUIPMENT/INSTRUMENTS/TOOLS/SOFTWARE REQUIRED

Sr. No.	Equipment Name with Broad Specifications	Relevant LLO Number
1	Fibreglass Dress Form: - Female and male, Female size -40, Male size -42. Dress Forms: It is a standardized duplication of a human form. It is cotton-padded, canvas-covered and set on a movable stand. It is used to take measurements, develop patterns and fit garment samples.	All

2	Rulers:- 12"/24" wooden, metal or plastic rulers. It is used for drawing straight lines per measurement. The marking and divisions on the ruler should be clear and accurate. Tailors square/ 'L' Square:- It is a 24"x 144" metal or plastic ruler with two arms that form a 90-degree angle. It is used to find a 45-degree angle mark outside and inside corners and extend the line through corners.	All
3	French Curve:- It is a curved plastic or metal ruler - It is used to draw curved lines of armholes and necklines.	All
4	Pin Holder:- Plastic/Wood material is used to hold pins and needles for easy accessibility and storage.	All
5	Hip Curve:- It is a curved plastic or metal ruler available in different sizes. It is used to draw curved lines.	All
6	Scissors:- It is a cutting tool, having a size of 8" to 12", with two sharply pointed straight blades. Used to cut paper patterns and fabric. Paper-cutting scissors and cloth-cutting scissors are different.	All
7	Notcher:- It is a punching tool that makes 'U' shaped notch marks. It is used to make 'U' shaped notch marks, which indicate seam allowance, central lines, etc. It looks like a single-punch machine.	All
8	Tailors' Chalk: These chalks can be rubbed off easily on the fabric surface. It is available in various colours with fine edges. It is used for marking the lines and design details on fabric.	All
9	Tracing Wheel:- It is a toothed metal wheel with a wooden or plastic handle. It is used to transfer lines from one pattern to another or from the final pattern to the fabric.	All
10	Pins & Pin Holder:- Pins and small stuffed pillows are also required in pattern-making.	All
11	Stiletto: It is a metal rod with a tapering needle point end and a wooden or plastic handle. It is used for punching dart ends on patterns, and marking the placement of pockets, trimmings, bands etc.	All
12	Thin Brown Paper:- These are brown paper rolls or sheets of various sizes and thicknesses. Used for preliminary pattern drafting and the development of patterns.	All
13	Thick Brown Paper:- These are brown paper rolls or sheets of various sizes and thicknesses. Used for preliminary pattern drafting and the development of the final pattern. - Strong and thick ones are used for making patterns that can be used repeatedly.	All
14	All 14 Thick Brown Paper:- These are brown paper rolls or sheets of various sizes and thicknesses. Used for preliminary pattern drafting and the development of the final pattern. - Strong and thick ones are used for making patterns that can be used repeatedly.	All
15	Sewing Thread:- A thread is a long strand of material, often composed of several filaments or fibres, used for sewing garments.	All
16	Hand Needle:- A sewing needle, used for hand-sewing, is a long, slender tool with a pointed tip at one end and a hole (or eye) to hold the sewing thread.	All
17	Machine Needle:- A sewing machine needle is a specialized needle used in a sewing machine.	All
18	Iron:- A clothes iron is a small appliance that, when heated, is used to press clothes to remove wrinkles and unwanted creases.	All
19	Iron board:- An ironing board is generally a large, flat piece of board or metal covered with heat-safe padding on which clothing or linens may be ironed safely.	All
20	Single needle lock stitch machine:- A sewing machine is used to sew fabric and materials together with thread.	All

21	Overlock sewing machine: - These are specialized sewing machines. Overlocks form interlocking stitches using one or two needles, and one or two loopers help prevent puckering of the fabric pieces.	All
22	Trims- Any materials or components used in clothing that are not the main fabric are referred to as trims. The trims can be Sewing Thread, decorative machine stitching, Buttons (both functional and decorative element), Rivets, Zipper, Hasps and Slider, Hook and eye closure, all fasteners, Lining, Interlining, Labels, Patches, Motifs, Embroidery, Smocking, Ribbons, Drawstrings, Laces, Tassels, Braid, Rickrack, Appliqués, Ruffles, Fur, Leather, Shoulder pads and Bias binding.	All

VIII. SUGGESTED FOR WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE

(Specification Table)

Sr. No	Unit	Unit Title	Aligned COs	Hours	R-Level	U-Level	A-Level	Total Marks
1	I	Understanding Women's Clothing	1	10	06	04	04	10
2	II	Analysing Women's Physique and Size Chart	2	10	06	04	04	12
3	III	Designing Women's Garments	3	10	06	04	04	12
4	IV	Women's Garment Construction System	4	10	02	04	04	12
5	V	Garment Fit: Problems And Remedial Actions	5	10	06	04	04	12
6	VI	Insight of Women's Garment Market	6	10	04	03	03	12
Grand Total				60	30	20	20	70

IX. ASSESSMENT METHODOLOGIES/TOOLS

Formative assessment (Assessment for Learning)	Summative Assessment (Assessment of Learning)
1. Tests 2. Rubrics for COs 3. Assignment 4. Midterm Exam 5. Self-Learning 6. Term Work 7. Seminar/Presentation	1. End Term Exam 2. Micro-project 3. Tutorial Performance

X. SUGGESTED COs- POs MATRIX FORM

Course Outcomes (COs)	Program Outcomes (POs)							Program Specific Outcomes *(PSOs)		
	PO-1 Basic and Discipline-Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO-1	PSO-2	PSO-3

CO1	3	3	1	3	2	0	3	1	2	0
CO2	3	2	1	3	2	0	3	3	3	0
CO3	3	2	2	3	2	0	3	2	2	0
CO4	3	3	2	2	1	2	3	3	1	0
CO5	2	2	3	3	1	0	2	3	0	0
CO6	3	2	2	2	1	2	3	3	1	0

Legends:- High:03, Medium:02, Low:01, No Mapping: 0

***PSOs are to be formulated at the institute level**


XI. SUGGESTED LEARNING MATERIALS/BOOKS

Sr. No.	Author	Title	Publisher
1	Helen Armstrong	Pattern making for fashion design	New Delhi, Pearson India Education Services Pvt. Ltd., 2016; ISBN-13: 978-9332518117, ISBN-10: 93325
2	Natalie Bray	Dress Pattern Designing: The Basic Principles of Cut and Fit	UK, Blackwell Publishing, 2008; ISBN-10.1405175672; ISBN-13. 978-1405175678
3	Winifred Aldrich	Metric Pattern Cutting for Women's Wear	John Wiley and Sons Ltd, Black paper, ISBN: 978-81-219-2318-7
4	Zarapkar K. R.	Zarapkar System of Cutting	Navneet Education (India) Limited Publishers, Bombay 2014, ISBN:9788124301999

XII. LEARNING WEBSITES & PORTALS

Sr. No	Link/Portal	Description
1	https://www.scribd.com/document/306411147/Pattern-Alteration- Sewing	Garment Fit: Problems and remedial actions

Name & Signature:


Mrs. S.N. Shinde
Lecturer – DDGM


(Course Experts)


Ms. S.E. Kurzekar
Lecturer – DDGM

Name & Signature:


Mr. S.S. Prabhune
(Programme Head)

Name & Signature:


Shri. S.B. Kulkarni
(CDC In-charge)

GOVERNMENT POLYTECHNIC, PUNE

'120 – NEP' SCHEME

PROGRAMME	DIPLOMA IN DDGM
PROGRAMME CODE	08
COURSE TITLE	DESIGN PROCESS DEVELOPMENT
COURSE CODE	DD31204
PREREQUISITE COURSE CODE & TITLE	NA
CLASS DECLARATION COURSE	YES

I. LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Course Type	Learning Scheme					Credits	Assessment Scheme												Total Marks
			Actual Contact Hrs./Week			SLH	NLH		Paper Duration	Theory			Based on LL & TSL				Based on SL				
			CL	TL	LL					FA-TH	SA-TH	Total	Practical				SLA				
													FA-PR	SA-PR							
															Max	Min			Max	Min	
DD31204	DESIGN PROCESS DEVELOPMENT	DSC	-	-	04	2	6	3	-	-	-	-	-	50	20	25#	10	25	10	100	

Total IKS Hrs for Term: 0 Hrs

Abbreviations: CL-Classroom Learning, TL-Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS – Indian Knowledge System, SLA- Self Learning Assessment

Legends: @-Internal Assessment, # - External Assessment,*# - Online Examination,@\$ - Internal Online Examination

Note:

FA-TH represents an average of two class tests of 30 marks each conducted during the semester.

1. If a candidate is not securing minimum passing marks in FA-PR (Formative Assessment - Practical) of any course, then the candidate shall be declared as 'Detained' in that Course.
2. If a candidate does not secure minimum passing marks in SLA (Self Learning Assessment) of any course, then the candidate shall be declared as 'fail' and will have to repeat and resubmit SLA work.
3. Notional learning hours for the semester are (CL + LL + TL + SL) hrs. * 15 Weeks
4. 1 credit is equivalent to 30 Notional hours.
5. * Self-learning hours shall not be reflected in the Timetable.
- 6.* Self-learning includes micro-projects/assignments/other activities.

II. RATIONALE:

This course applies the knowledge of wardrobe designing by applying principle of design. It helps to bring out the unique characteristics of designing in order to create seasonal design collection, to develop consumer profile and concept boards based on standards of fashion industries.

III. COURSE LEVEL LEARNING OUTCOMES (CO's)

Students will be able to achieve & demonstrate the following CO's on completion of course-based learning

CO1-Develop relevant boards, designs and concept boards for a theme based design.

CO2-Design a client profile based on market research.

CO3- Select textures, prints and color schemes suitable to seasonal wear.

CO4- Design wardrobe by using suitable media, surface ornamentation, accessories and page composition.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT

NOT APPLICABLE

V. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL/TUTORIAL EXPERIENCES.

Sr. No	Practical/Tutorial/Laboratory Learning Outcome (LLO)	Laboratory Experiment / Practical Titles /Tutorial Titles	Number of hrs.	Relevant COs
1	LLO 1.1 Identify the types of themes. LLO 1.2 Identify the types of boards. LLO 1.3 Identify the types of design. LLO1.4 Select the relevant theme for the given situation. LLO1.5 Select the relevant board for the given situation. LLO1.6 Select the relevant design for the given situation. LLO1.7 Render for the identified theme.	Render the Theme Based Design on the following points: Theme: Collage Ramp Walk/Indian festival Theme(The intersection of Design, Science and Technology) Boards- Collage Creation (Manual/Computerized) Inspiration Board, Mood Board, Color and Swatch(Fabric) Board. Design Development -Illustrate(Men, Women or Kid) Five to Seven Theme Based Garment Line with Accessories, use Mixed media design according to the given theme with Flats with Suitable Page Composition and Backdrop. Concept Board-Draw Technical Flats Manually /Computerized Prepare Technical Spec Sheet Manually /Computerized.	08	CO1
2	LLO 2.1 Identify the elements of male client profile. LLO 2.2 Observe/Ask/Interview the male client for information. LLO2.3 Classify the male client information. LLO2.4 Tabulate the male client information. LLO 2.5 Develop a Male clientprofile.	Design a Male Client Profile (Manual/Computerized) (Photograph, Name, Age, Gender, Demographic, Occupation, Life Style, Hobbies, Likes, Dislikes, etc.).	04	CO2
3	LLO 3.1 Identify the elements of female client profile. LLO 3.2 Observe/Ask/Interview the female client for information. LLO 3.3 Classify the female client information. LLO 3.4 Tabulate the female client information. LLO 3.5 Develop a female client profile.	Design a Female Client Profile (Manual/Computerized) (Photograph, Name, Age, Gender, Demographic, Occupation, Life Style, Hobbies, Likes, Dislikes, etc.).	04	CO2
4	LLO 4.1 Identify the elements of Kid's client profile. LLO 4.2 Observe/Ask/Interview the Kid's client for information. LLO 4.3 Classify the information of	Design a Kid's Client Profile (Manual/Computerized) (Photograph, Name, Age, Gender, Demographic, Occupation, Life Style, Hobbies, Likes, Dislikes, etc.).	04	CO2

	<p>Kid's client.</p> <p>LLO 4.4 Tabulate the Kid's client information.</p> <p>LLO 4.5 Develop a Kid's client profile.</p>			
5	<p>LLO 5.1 Perform trend analysis for the given spring/summer wear collection.</p> <p>LLO 5.2 Refer fashion forecasting website for the given spring/summer wear collection.</p> <p>LLO 5.3 Identify elements for mixed media for the given spring/summer wear collection.</p> <p>LLO 5.4 Select suitable mix media for the given spring/summer wear collection.</p> <p>LLO 5.5 Use suitable texture and accessories for the given spring/summer wear collection.</p> <p>LLO 5.6 Use proper page composition and Backdrop for the given spring/summer wear collection.</p> <p>LLO 5.7 Illustrate Croquis with flat for the given spring/summer wear collection.</p> <p>LLO 5.8 Render Croquis with flat for the given spring/summer wear collection.</p>	<p>Render (Men/Women/Kid) Croquis using mixed media for Spring/Summer Wear with proper page composition and Backdrop along with suitable texture and accessories.</p>	04	CO3,CO4
6	<p>LLO 6.1 Perform trend analysis for the given Autumn/Winter Wear collection.</p> <p>LLO 6.2 Refer fashion forecasting website for the given Autumn/Winter Wear collection.</p> <p>LLO 6.3 Identify elements for mixed media for the given Autumn/Winter Wear collection.</p> <p>LLO 6.4 Select suitable mixed media for the given Autumn/Winter Wear collection.</p> <p>LLO 6.5 Use suitable texture and accessories for the given Autumn/Winter Wear collection.</p> <p>LLO 6.6 Use proper page composition and backdrop for the given Autumn/Winter Wear collection.</p> <p>LLO 6.7 Illustrate 3 to 5 Croquis for the given Autumn/Winter Wear collection.</p> <p>LLO 6.8 Render 3 to 5 Croquis for the given Autumn/Winter Wear collection.</p>	<p>Render (Men/Women/Kid) Croquis using mixed media for Autumn/Winter Wear using proper page composition and Backdrop along with suitable texture and accessories.</p>	04	CO3,CO4

7	<p>LLO 7.1 Identify the parameters for kid's wardrobe designing.</p> <p>LLO 7.2 Select the parameters for the given kid's casual wear wardrobe designing.</p> <p>LLO 7.3 Identify suitable media for the given kid's casual wear wardrobe designing.</p> <p>LLO 7.4 Identify suitable surface ornamentation for the given kid's casual wear wardrobe designing.</p> <p>LLO 7.5 Identify suitable accessories for the given kid's casual wear wardrobe designing.</p> <p>LLO 7.6 Identify suitable texture for the given kid's casual wear wardrobe designing.</p> <p>LLO 7.7 Identify suitable page composition for the given kid's casual wear wardrobe design.</p> <p>LLO 7.8 Illustrate 3 to 5 Croquis for the given kid's casual wear wardrobe design.</p> <p>LLO 7.9 Render 3 to 5 Croquis for the given kid's casual wear wardrobe design.</p>	<p>Develop a kid's wardrobe related to Casual wear using suitable media, surface ornamentation, accessories texture and page composition.</p>	04	CO3,CO4
8	<p>LLO 8.1 Identify the parameters for male/female wardrobe designing.</p> <p>LLO 8.2 Select parameters for given male/female Office wear Wardrobe Designing.</p> <p>LLO 8.3 Identify suitable media for the given male/female Office wear Wardrobe Designing.</p> <p>LLO 8.4 Identify suitable surface ornamentation for the given male/female Office wear Wardrobe Designing.</p> <p>LLO 8.5 Identify suitable accessories for the given male/female Office wear Wardrobe Designing.</p> <p>LLO 8.6 Identify suitable texture for the given male/female Office wear Wardrobe Designing.</p> <p>LLO 8.7 Identify suitable page composition for the given male/female Office wear Wardrobe Design.</p> <p>LLO 8.8 Illustrate 3 to 5 Croquis for the given male/female Office wear</p>	<p>Render Office wear Male/Female Wardrobe collection using suitable media, surface ornamentation, accessories, texture and page composition.</p>	04	CO3,CO4

	Wardrobe Design. LLO 8.9 Render 3 to 5 Croquis for the given male/female Office wear Wardrobe Design.			
9	<p>LLO 9.1 Identify the parameters for Male/Female /Kid Beachwear Wardrobe designing.</p> <p>LLO 9.2 Select parameters for given Male/Female /Kid Beachwear Wardrobe designing.</p> <p>LLO 9.3 Identify suitable media for the given Male/Female /Kid Beachwear Wardrobe designing.</p> <p>LLO 9.4 Identify suitable surface ornamentation for the given Male/Female /Kid Beachwear Wardrobe designing.</p> <p>LLO 9.5 Identify suitable accessories for the given Male/Female /Kid Beachwear Wardrobe designing.</p> <p>LLO 9.6 Identify suitable texture for the given Male/Female /Kid Beachwear Wardrobe designing.</p> <p>LLO 9.7 Identify suitable page composition for the given Male/Female /Kid Beachwear Wardrobe designing.</p> <p>LLO 9.8 Illustrate 3 to 5 Croqui for the given Male/Female /Kid Beachwear Wardrobe design.</p> <p>LLO 9.9 Render 3 to 5 Croque for the given Male/Female /Kid Beachwear Wardrobe design.</p>	Render Female/Male/Kid's Beachwear Wardrobe collection using suitable media, accessories and page composition.	04	CO3,CO4
10	<p>LLO 10.1 Identify the parameters for Bridal/Groom-Party Wear Wardrobe Designing.</p> <p>LLO 10.2 Select parameters for given Bridal/Groom-Party Wear Wardrobe Designing.</p> <p>LLO 10.3 Identify suitable media for the given Bridal/Groom-Party Wear Wardrobe Designing.</p> <p>LLO 10.4 Identify suitable surface ornamentation for the given Bridal/Groom-Party Wear Wardrobe Designing.</p> <p>LLO 10.5 Identify suitable accessories for the given Bridal/Groom-Party Wear Wardrobe Designing.</p> <p>LLO 10.6 Identify suitable texture for</p>	Render Bridal/Groom Party-Wear, Wardrobe collection using Suitable Media, Surface ornamentation, Texture, Accessories and Page Composition.	06	CO3,CO4

	<p>the given Bridal/Groom-Party Wear Wardrobe Designing.</p> <p>LLO 10.7 Identify suitable page composition for the given Bridal/Groom-Party Wear Wardrobe Design.</p> <p>LLO 10.8 Illustrate 3 to 5 Croquis for the given Bridal/Groom- Party Wear Wardrobe Design.</p> <p>LLO 10.9 Render 3 to 5 Croqui for the given Bridal/Groom-Party wear Wardrobe Design.</p>			
11	<p>LLO 11.1 Identify the parameters for Male /Female/Kid for Sports wear Wardrobe Designing.</p> <p>LLO 11.2 Select parameters for given Male /Female/Kid Sportswear Wardrobe Designing.</p> <p>LLO 11.3 Identify suitable media for the given Male /Female/Kid Sports wear Wardrobe Designing.</p> <p>LLO 11.4 Identify suitable surface ornamentation for the given Male /Female/Kid Sports wear Wardrobe Designing.</p> <p>LLO 11.5 Identify suitable accessories for the given Male /Female/Kid Sports wear Wardrobe Designing.</p> <p>LLO 11.6 6 Identify suitable texture for the given Male /Female/Kid Sports wear Wardrobe Designing.</p> <p>LLO 11.7 Identify suitable page composition for the given Male /Female/Kid Sports wear Wardrobe Design.</p> <p>LLO 11.8 Illustrate 3 to 5 Croquis for the given Male /Female/Kid Sports wear Wardrobe Design.</p> <p>LLO 11.9 Render 3 to 5 Croquis for the given Male /Female/Kid Sports wear Wardrobe Design.</p>	<p>*Render Male/Female/Kid Sports wear Wardrobe collection using suitable media, accessories, texture and page composition.</p>	04	CO3,CO4
12	<p>LLO 12.1 Identify the parameters for Male/Female for Evening wear Wardrobe Designing.</p> <p>LLO 12.2 Select parameters for the given Male/Female Evening wear Wardrobe Designing.</p>	<p>*Render Male/Female Evening wear Wardrobe collection using suitable media, accessories and page composition.</p>		

	<p>LLO 12.3 Identify suitable media for the given Male/Female Evening wear Wardrobe Designing.</p> <p>LLO 12.4 Identify suitable surface ornamentation for the given Male/Female Evening wear Wardrobe Designing.</p> <p>LLO 12.5 Identify suitable accessories for the given Male/Female Evening wear Wardrobe Designing.</p> <p>LLO 12.6 Identify suitable texture for the given Male/Female Evening wear Wardrobe Designing.</p> <p>LLO 12.7 Identify suitable page composition for the given Male/Female Evening wear Wardrobe Design.</p> <p>LLO 12.8 Illustrate 3 to 5 Croquis for the given Male/Female Evening wear Wardrobe Design.</p> <p>LLO 12.9 Render 3 to 5 Croquis for the given Male/Female Evening wear Wardrobe Design.</p>		06	CO3,CO4
13	<p>LLO 13.1 Identify the parameters for Male/Female/Kid for Night wear Wardrobe Designing.</p> <p>LLO 13.2 Select the parameters for the given Male/Female/Kid Night wear Wardrobe Designing.</p> <p>LLO 13.3 Identify suitable media for the given Male/Female/Kid Night wear Wardrobe Designing.</p> <p>LLO 13.4 Identify suitable surface ornamentation for the given Male/Female/Kid Night wear Wardrobe Designing.</p> <p>LLO 13.5 Identify suitable accessories for the given Male/Female/Kid Night wear Wardrobe Designing.</p> <p>LLO 13.6 Identify suitable texture for the given Male/Female/Kid Night wear Wardrobe Designing.</p> <p>LLO 13.7 Identify suitable page composition for the given Male/Female/Kid Night wear Wardrobe Design.</p> <p>LLO 13.8 Illustrate 3 to 5 Croquis for the given Male/Female/Kid Night wear Wardrobe Design.</p> <p>LLO 13.9 Render 3 to 5 Croquis for the</p>	*Render Male/Female/Kid Night wear Wardrobe collection using suitable media, texture, surface ornamentation, accessories and page composition.	04	CO3,CO4

given Male/Female/Kid Night wear Wardrobe Design.			
Note : Out of above suggestive LLOs - (*' Marked Practicals (LLOs) Are mandatory. Minimum 80% of above list of lab experiment are to be performed. Judicial mix of LLOs are to be performed to achieve desired outcomes.			

VI. SUGGESTED MICRO PROJECT/ASSIGNMENT/ACTIVITIES FOR SPECIFIC LEARNING/SKILLS DEVELOPMENT (SELF-LEARNING)

Micro project

- Prepare a collage on Current Bollywood movie costume and accessories related to old classic movies.
- Prepare a swatch book on Current Hollywood movie costume and accessories.
- Prepare a E-Journal for collection of various garment categories related to ready to wear men garments.

Assignment

- Explore the design fashion brands and do the library formation highlighting leisure wear of the brand.Submit a report on the same.
- Explore the design fashion brands and do the library formation highlighting festive wear of the brand.Submit a report on the same.
- Explore the design fashion brands and do the library formation highlighting Lingerie's wear of the brand.Submit a report on the same.

VII. LABORATORY EQUIPMENT/INSTRUMENTS/TOOLS/SOFTWARE REQUIRED

Sr.No	Equipment Name with Broad Specifications	Relevant LLO Number
1	Drawing Table and Drawing Board:Ms steel square pipe 16 gauge,stand with powdercoating paint. ,Stationery Material:Drawing Sheets Colouring Material:Poster Color, Staddlers, Markers, etc	1,2,3,4

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

NOT APPLICABLE

IX.ASSESSMENT METHODOLOGIES/TOOLS

Formative assessment (Assessment for Learning)		Summative Assessment (Assessment of Learning)	
1.	Self-Learning	1.	End Term Practical Exam
2.	Term Work	2.	Micro-project
3.	Seminar/Presentation	3.	Assignment

X. SUGGESTED COs- POs MATRIX FORM

Course Outcomes (COs)	Programme Outcomes(POs)							Programme Specific Outcomes *(PSOs)	
	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO-1	PSO-2
CO1	3	1	1	1	--	1	1	1	1
CO2	1	1	2	1	--	1	1	1	1
CO3	3	1	2	1	--	1	1	1	1
CO4	2	1	2	1	--	1	1	1	1





Legends:- High:03, Medium:02, Low:01, NoMapping: --
 *PSOs are to be formulated at the institute level

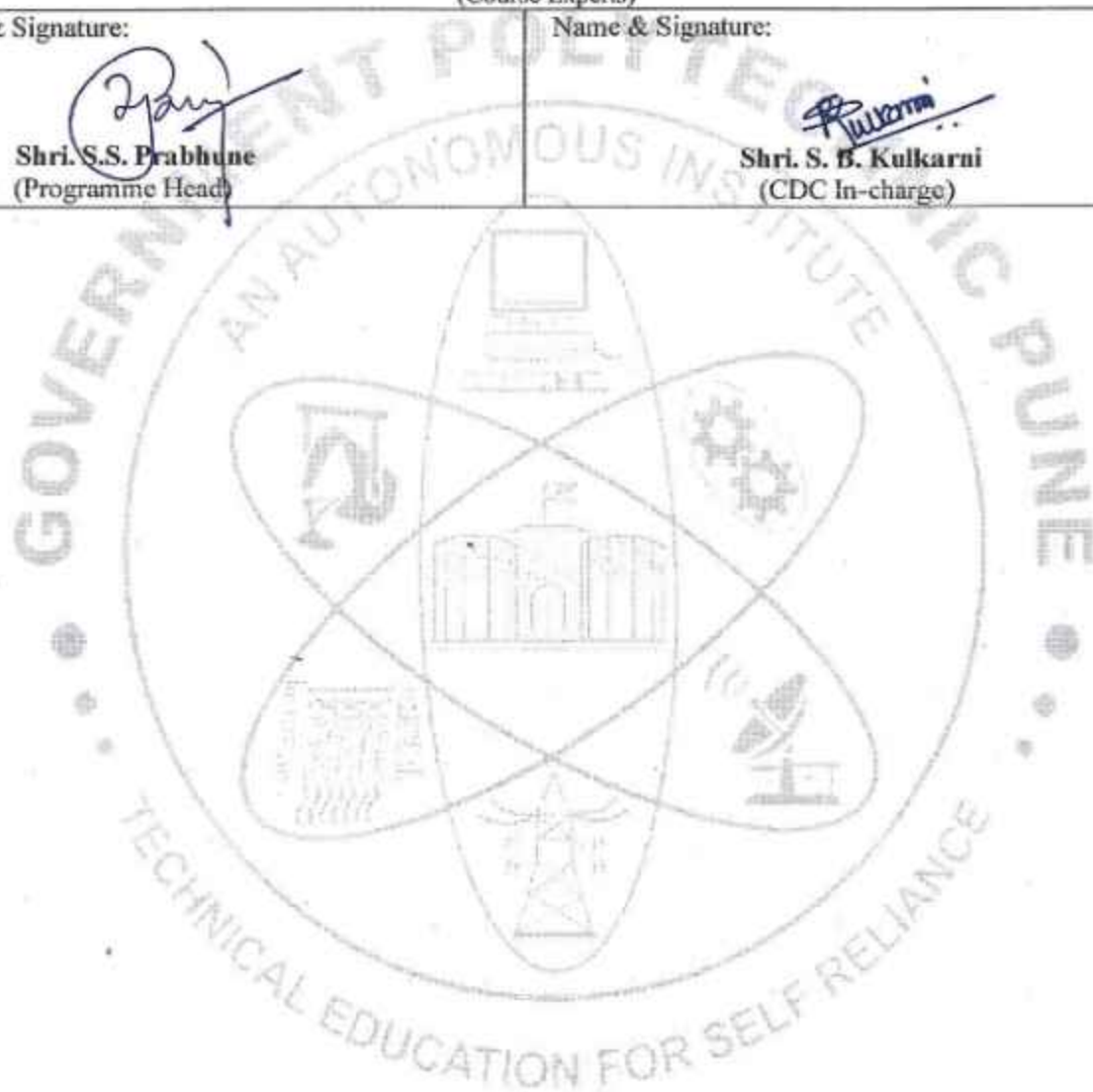
XI.SUGGESTED LEARNING MATERIALS/BOOKS

Sr.No	Author	Title	Publisher
1	Bina Abbing	Fashion sketch book	Fair child books and Visuals, ISBN-13:9781609012281
2	Carol A.Nunnally	Fashion Illustration School	Thames and Hudson, ISBN-13:978-0500287989 , ISBN-10:0500287988
3	Irina Ivanova	Mens Wear Fashion IllustrationResource book	Art Design Project Incorporated , ISBN -10-0692608648 ,ISBN-13-978-0692608647
4	Irina Ivanova	Childrens Wear Fashion Illustration Resource book	Art Design Project Incorporated, ISBN-10:0692554076 ,ISBN-13:978-0692554074
5	Patrick JohnIrland	Fashion Design Illustration –Men	B.T.Batsford Ltd, ISBN10:0713466235
6	Patrick JohnIrland	Fashion Design Illustration – Children	B.T.Batsford Ltd, ISBN10:0713466243

XII. LEARNING WEBSITES & PORTALS

Sr.No	Link/Portal	Description
1.	https://youtu.be/U68FvwHaOoE	Fashion Illustration
2.	https://youtu.be/YpibEOJGM0c	Fashion Croquis
3.	https://www.youtube.com/watch?v=KfofqHU3u54	Customer Profile
4.	https://www.youtube.com/watch?v=UTL5c-2d9ao	Wardrobe Planning
5.	https://www.99acres.com/articles/kids-wardrobe.html	wardrobe planning for kid's
6.	https://www.vogue.com/article/casual-outfits	Brand collection for women's casual wear

Name & Signature:	
 Mrs. N. V. Gondane Lecturer in DDGM	 Mrs. P. V. Toshniwal Lecturer in DDGM
(Course Experts)	
Name & Signature:	Name & Signature:
 Shri. S. S. Prabhune (Programme Head)	 Shri. S. B. Kulkarni (CDC In-charge)



GOVERNMENT POLYTECHNIC, PUNE
'120 – NEP' SCHEME

PROGRAMME	DIPLOMA IN DDGM
PROGRAMME CODE	08
COURSE TITLE	FASHION MERCHANDISING
COURSE CODE	DD31205
PREREQUISITE COURSE CODE & TITLE	NA
CLASS DECLARATION COURSE	NO

I. LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Course Category/s	Learning Scheme						Credits	Paper Duration	Assessment Scheme										Total Marks
			Actual Contact Hrs./Week			SLH	NLH	Theory				Based on LL & TSL				Basedon SL					
			CL	TL	LL							Practical									
												FA-TH	SA-TH	Total		FA-PR		SA-PR		SLA	
			CL	TL	LL						Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	
DD31205	FASHION MERCHANDISING	DSC	4	--	-	--	4	2	03	30	70	100	40	--	--	--	--	--	--	100	

Total IKS Hrs for Term: 0 Hrs

Abbreviations: CL-Classroom Learning, TL-Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS – Indian Knowledge System, SLA- Self Learning Assessment

Legends: @-Internal Assessment, #- External Assessment, *# - Online Examination, @\$ - Internal Online Examination

- Note:**
1. FA-TH represents an average of two class tests of 30 marks each conducted during the semester.
 2. If a candidate is not securing minimum passing marks in FA-PR (Formative Assessment - Practical) of any course, then the candidate shall be declared as 'Detained' in that Course.
 3. If a candidate does not secure minimum passing marks in SLA (Self Learning Assessment) of any course, then the candidate shall be declared as 'fail' and will have to repeat and resubmit SLA work.
 4. Notional learning hours for the semester are (CL + LL + TL + SL) hrs. * 15 Weeks
 5. 1 credit is equivalent to 30 Notional hours.
 6. * Self-learning hours shall not be reflected in the Timetable.
 - 7.* Self-learning includes micro-projects/assignments/other activities.

II. RATIONALE:

The course Fashion Merchandising gives information about the responsibilities of fashion buying and merchandising and also provides guidelines for effective fashion buying and merchandising practice. The course stimulates interest and encourages the profession to obtain a broader point of view.

III. COURSE-LEVEL LEARNING OUTCOMES (CO's)

Students will be able to achieve & demonstrate the following CO's on completion of course-based learning

CO1– Identify the fashion terminologies and environmental factors influencing the fashion cycle and principles of fashion.

CO2- Analyze the types of merchandise and the role of fashion merchandisers in the apparel sector.

CO3- Apply the theories of the fashion movement and the roles of fashion players.

CO4- Understand the environmental factors creating an impact on fashion.

CO5- Analyze the Scope of the fashion business and its levels and concept of TEC Pack.

IV.THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT

Sr. No	Theory Learning Outcomes(TLO's) aligned to CO's.	Learning content mapped with TLO's.	Suggested Learning Pedagogies	Relevant COs
UNIT I THE NATURE OF FASHION (CL Hrs.-12, Marks-12)				
1.	TLO 1.1 Define Fad. TLO 1.2 Define Knock Off TLO1.3 Define Fashion terminologies. TLO1.4 Explain components of fashion. TLO 1.5 Understand the importance of principles of fashion. TLO 1.6 State themisconceptions offashion.	1.1 The terminology of fashion- i. Fad ii. Style iii. Design iv. Classic v. Trend vi. Brand vii. Knock-off viii. Fashion Image ix. Fashion Innovators x. Fashion coordinator xi. Boutique xii. Pret-a-Porter / RTW xiii. Haute Couture xiv. Chic xv. Collection xvi. Customer / Consumer xvii. Custom Made xviii. Fashion Merchandiser xix. Merchandise xx. Merchandising 1.2 The Nature of Fashion- i. Components ii. Principles iii. Misconceptions	PPT Video Demonstrations	CO1
UNIT II MERCHANDIZING IN APPAREL SECTOR (CL Hrs.-12, Marks-14)				
2	TLO2.1 Understand the concept of merchandising. TLO2.2 State the rights of merchandising. TLO2.3 Enlist the types of products. TLO2.4 Explain the qualities of a fashion merchandiser. TLO2.5 Describe the factors demanding the need of merchandiser.	2.1 Classification of products- i. Staple ii. Fashion Fads iii. Seasonal products 2.2 Introduction and Types of Merchandizing. i. Retail organization merchandising. ii. Buying agency merchandising iii. Export house merchandising 2.3 Five rights of merchandising- i. The right merchandise ii. At the right place iii. At the right time iv. In the right quantities v. At the right price 2.4 Types of Merchandisers- i. Export House ii. Retail Merchandiser	PPT Chalk-Board Presentations	CO2

		iii. Visual Merchandiser 2.5 Qualities of a fashion merchandiser- i. Planning ii. Decision making iii. Communication iv. Technical knowledge v. Monitoring vi. Time management 2.6 Factors demanding the need for merchandisers- i. Dramatic growth ii. Complicated raw material and process iii. The advent of a new style iv. Reduced product life cycle Global transitions.		
UNIT III THE MOVEMENT OF FASHION (CL Hrs.-10, Marks-12)				
3.	TLO3.1 Explain the Fashion cycle with the appropriate diagram. TLO3.2 Differentiate between Long and Short run fashion. TLO3.3 State Intangibles of fashion. TLO3.4 Explain the movement of fashion with appropriate example	3.1 The fashion cycle- i. Stages of Fashion Cycle ii. Length of Fashion Cycle- Long and Short run fashion iii. Breaks in the Fashion Cycle iv. Intangibles of fashion v. Accelerating and retarding factors in the fashion cycle.	PPT Chalk-Board Presentations	CO3
UNIT IV THE ENVIRONMENT OF FASHION (CL Hrs.-10, Marks-10)				
4	TLO4.1 State the impact of Psychographic segmentation on fashion movement. TLO4.2 Explain the demographic segmentation of fashion. TLO4.3 Explain the psychological attitudes of consumers. TLO4.4 State sociological characteristics of the class structure.	4.1 Market segmentation- i. Geographic segmentation ii. Demographic segmentation. iii. Psychographic segmentation iv. Behavior segmentation. 4.2 The degree of economic development and well-being in a country of society- i. Consumer income ii. Population iii. Technology 4.3 The sociological characteristics of the class structure- i. Status of women ii. Leisure time- active sportswear iii. Social mobility Ethnic influences 4.4 The psychological attitudes of consumers.	Lecture with media Presentations Video	CO4

UNIT 5 THEORIES OF FASHION (CL Hrs.-10, Marks-10)

5	TLO5.1 Define upward theory of fashion. TLO5.2 Define Birth of Fashion. TLO5.3 Explain the role of retailers in fashion. TLO 5.4 Explain the role of fashion leaders and fashion followers.	5.1 Theories of Fashion Adoption- i. Upward- Theory ii. Downward- Theory iii. Horizontal- Theory/ Trickle across 5.2 Birth of Fashion 5.3 Role of- i. Fashion merchandiser ii. Fashion Leaders iii. Fashion followers iv. Designers v. Manufacturer vi. Laggards Victims	Video Demonstrations Chalk-Board	CO5
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UNIT VI THE BUSINESS OF FASHION (CL Hrs.-10, Marks-12)

6	TLO 6.1 Distinguish between Primary level fashion business and Secondary level fashion business. TLO6.2 Enlist the levels for fashion business. TLO6.3 State the importance of retail and auxiliary level fashion business.	6.1 Scope of the fashion business and its levels:- i. Primary level ii. Secondary level iii. Retail level iv. Auxiliary level 6.2 TEC PACK of merchandise- i. Concept ii. Contents iii. Use	PPT Chalk-Board Presentations	CO6
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V. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL/TUTORIAL EXPERIENCES.
NOT APPLICABLE

VI. SUGGESTED MICRO PROJECT/ASSIGNMENT/ACTIVITIES FOR SPECIFIC LEARNING/SKILLS DEVELOPMENT (SELF-LEARNING)

NOT APPLICABLE

VII. LABORATORY EQUIPMENT/INSTRUMENTS/TOOLS/SOFTWARE REQUIRED
NOT APPLICABLE

VIII. SUGGESTED FOR WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE
(Specification Table)-

Sr. No	Unit	Unit Title	Aligned COs	Learning Hours	R-Level	U-Level	A-Level	Total Marks
1		The Nature of Fashion	1	12	08	04	00	12
2		Merchandizing in apparel sector	2	10	02	08	04	14
3		The Movement of Fashion	3	10	02	06	04	12
4		The Environment of Fashion	4	10	04	06	00	10
5		Theories of Fashion	3	08	02	04	04	10
6		The Business of Fashion	5	10	02	06	04	12
				60	20	34	16	70

IX. ASSESSMENT METHODOLOGIES / TOOLS-

Formative assessment (Assessment for Learning)	Summative Assessment (Assessment of Learning)
1 Mid term tests 2 Rubrics for Micro Project	1 End of Term Examination

X. SUGGESTED COS- POS MATRIX FORM

Course Outcomes (COs)	Programme Outcomes(POs)							Programme Specific Outcomes *(PSOs)	
	PO-1 Basic and Discipline-Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO-1	PSO-2
CO1	02	01	--	01	--	--	01	01	--
CO2	01	--	--	--	01	01	--	--	--
CO3	03	--	02	01	--	--	01	02	01
CO4	--	01	--	--	02	--	--	--	--
CO5	03	--	--	--	--	02	02	01	--


Legends:- High:03, Medium:02, Low:01, No Mapping : --
 *PSOs are to be formulated at the institute level

XI. SUGGESTED LEARNING MATERIALS/BOOKS

Sr.No	Author	Title	Publisher /ISBN
1	Sidney Packard	Fashion Buying and Merchandizing	Fairchild books, 1983 year ISBN: 0870054457
2	Diamond J	Retail Buying	Pearson, 2000 year ISBN: 0130254320
3	C. Calasibetta	Fairchild Dictionary of Fashion	Fairchild books, 2003 YEAR ISBN: 1563672359
4	Frings Gini Stephens	Fashion from Concept to Consumer	Pearson/prentice Hall, 2005 year ISBN: 0131173383
5	Elaine Stone	The Dynamics of Fashion	Fairchild books, 2018 year ISBN: 15011324004

XII. LEARNING WEBSITES & PORTALS

Sr.No	Link/Portal	Description
1.	Apparel Clothing Manufacturing	Unit 1 and 2
2.	https://en.wikipedia.org/wiki/Textile_manufacturing	Unit 3 and 4
3.	https://textilelearner.blogspot.com/2012/02/textile-manufacturing-process-	Unit 5 and 6

Name & Signature:	
 Mrs. Shubhangi M. Waghchaure Lecturer in DDGM	 Mrs. Suchita E. Kurzekar Lecturer in DDGM
(Course Experts)	
Name & Signature:	Name & Signature:
 Shri. S.S. Prabhune (Programme Head)	 Shri. S. B. Kulkarni (CDC In-charge)

GOVERNMENT POLYTECHNIC, PUNE

'120 – NEP' SCHEME

PROGRAMME	DIPLOMA IN DDGM
PROGRAMME CODE	08
COURSE TITLE	FABRIC SCIENCE
COURSE CODE	DD31206
PREREQUISITE COURSE CODE & TITLE	NA
CLASS DECLARATION COURSE	NO

I. LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Course Category/s	Learning Scheme						Credits	Paper Duration	Assessment Scheme										Total Marks
			Actual Contact Hrs./Week			SLH	NLH	Theory			Based on LL & TSL				Based on SL						
			CL	TL	LL						Practical										
											FA-PR				SA-PR		SLA				
											FA-TH	SA-TH	Total		FA-PR	SA-PR	SLA				
Max	Max	Max	Min	Max	Min	Max	Min	Max	Min												
DD31206	FABRIC SCIENCE	AEC	4	--	--	--	4	2	03	30	70	100	40	--	--	--	--	--	--	100	

Total IKS Hrs. for Sem. : 0 Hrs.

Abbreviations: CL-Class Room Learning, TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA –Summative assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

Legends: @ Internal Assessment, # External Assessment, *# On Line Examination, @\$ Internal Online Examination

1. FA-TH represents the average of two class tests of 30 marks each conducted during the semester.

2. If a candidate does not secure minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that Course.

3. If a candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.

4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks

5. 1 credit is equivalent to 30 Notional hrs.

6. * Self-learning hours shall not be reflected in the timetable.

7. * Self-learning includes micro-projects/assignments / other activities

II. RATIONALE:

Fabric is foundationally important in garment construction. The structure of woven or knitted textiles comprises unique qualities that will help designers and merchandisers choose appropriate fabrics for their designs and help to determine the shape of the final design. Incorporating complex structures, multiple textures of yarn, and several colors, to form a material that falls in dramatic folds. Fabric Finishing makes the fabric attractive and better resistant for wearing and laundering.

III. COURSE-LEVEL LEARNING OUTCOMES (CO's)

Students will be able to achieve & demonstrate the following CO's on completion of course-based learning

CO1 - Remember the types of looms and their preparatory process.

CO2 - Identify the uses of basic weaves according to properties.

CO3 - Understand the need and uses of Knitted and animal fabrics.

CO4 -Analyze the nonwoven fabrics and technical textiles for garment construction based on advantages and disadvantages.

CO5- Interpret textile pre-treatments and finishes for grey fabric.

CO6- Use appropriate fabric by identifying its features.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT:

Sr. No	Theory Learning Outcomes (TLO'S) aligned to CO's.	Learning content mapped with TLO's.	Suggested Learning Pedagogies	Relevant COs
UNIT - I FABRIC CONSTRUCTION (CL Hrs.- 12, Marks -14)				
1.	<p>TLO 1.1 Explain weaving and woven fabrics.</p> <p>TLO 1.2 Differentiate the Types of Looms.</p> <p>TLO 1.3 Explain Preparatory Processes for Weaving.</p>	<p>1.1 Weaving-Preparatory Processes-</p> <ul style="list-style-type: none"> i. Warping ii. Sizing iii. Weaver's beam iv. Drawing v. Denting. <p>1.2 Loom- Part</p> <ul style="list-style-type: none"> i. Warp Beam ii. Reed iii. Shuttle-filing carrier iv. Heddles v. Harness vi. Cloth Beam <p>1.3 Loom -Motions</p> <ul style="list-style-type: none"> i. Shedding. ii. Picking iii. Beat up iv. Letting Off v. Taking up <p>1.4 Types of Looms-</p> <ul style="list-style-type: none"> i. Hand Looms/ Shuttle Loom ii. Machine Looms / Shuttleless Loom, iii. Projectile looms iv. Rapier looms v. Air-jet looms vi. Water-jet looms 	Video Chalk-Board Presentations	CO1
UNIT - II WEAVES- PROPERTIES AND USES (CL Hrs.- 08, Marks -12)				
2	<p>TLO 2.1 Identify the types of Basic weaves and their required end-use properties.</p> <p>TLO 2.2 Identify the structure of Dobby Weaves.</p> <p>TLO 2.3 Identify the appearance and uses of Jacquard Weaves.</p> <p>TLO 2.4 Differentiate between the Velvet and Velveteen</p> <p>TLO 2.5 Describe the Twill weave.</p>	<p>2.1 Study of Structure, Appearance, Durability, Properties and Uses-</p> <ul style="list-style-type: none"> i. Plain weave- Twill, Rib, Basket ii. Satin and Sateen weave iii. Dobby Weaves iv. Jacquard Weaves. v. Velvet and Velveteen vi. Corduroy 	Video Demonstrations Chalk-Board Presentations	CO2

UNIT - III KNITTING AND TECHNICAL FABRICS (CL Hrs.- 10, Marks -12)

3	<p>TLO 3.1 Identify the origin and types of the Knitting.</p> <p>TLO 3.2 Identify the characteristics of the knitting Fabric.</p> <p>TLO 3.3 List uses of technical textile.</p> <p>TLO 3.4 Give advantages and disadvantages of knitting.</p>	<p>3.1 Knitting-</p> <ol style="list-style-type: none"> Origin Construction Techniques Types-Warp Knit and Weft Knit Advantages and Disadvantages <p>3.2 Classification of technical textiles with applications</p> <ol style="list-style-type: none"> Agro-textiles Construction Textiles Geo- Textiles Medical Textiles Transport-Packaging Textiles 	Video Demonstrations Chalk-Board	CO3
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UNIT - IV NONWOVEN AND ANIMAL SKIN FABRICS (CL Hrs.- 10, Marks -10)

4	<p>TLO 4.1 Explain the construction process of nonwoven fabrics.</p> <p>TLO 4.2 Describe the End-uses of nonwovens.</p> <p>TLO 4.3 Define the term tanning.</p> <p>TLO 4.4 Give the advantages of fur.</p>	<p>4.1 Introduction of Non-Woven Fabrics</p> <ol style="list-style-type: none"> Felting Bonding Heat-bonded nonwoven fabrics Pulp air-laid nonwovens Wet-laid non-woven Spun bond nonwovens Melt blown nonwovens Acupuncture nonwovens Spun lace nonwovens <p>4.2 Introduction of leather and suede-Terminologies-Vegetable tanning/Chrome tanning/Alumtanning.</p> <p>4.3 Introduction of Fur</p>	Video Demonstrations Chalk-Board	CO4
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UNIT - V PRE-TREATMENT AND FINISHES (CL Hrs.- 10, Marks -10)

5	<p>TLO 5.1 State the need for Various pretreatments.</p> <p>TLO 5.2 Explain the singeing process.</p> <p>TLO 5.3 State the purpose of Desizing.</p> <p>TLO 5.4 State the purpose of Scouring.</p> <p>TLO 5.5 Explain the purpose of chemical finishes.</p> <p>TLO 5.6 Explain the various mechanical finishes.</p>	<p>5.1 Need of various Pre-treatments.</p> <ol style="list-style-type: none"> Process of Singeing. Process of Desizing. Process of Scouring. Process of Bleaching. Process of Mercerizing. Stain Removal Treatment. <p>5.2 Introduction to Types of Mechanical Finishes:</p> <ol style="list-style-type: none"> Classification Chart of Finishes Brushing finish. Calendaring finish Sanforising finish Decatizing finish Weighting finish Sizing 	Video Demonstrations Chalk-Board	CO5
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UNIT –VI FABRIC STUDY(CL Hrs.- 10, Marks -12)

TLO 6.1. Give a classification of fabric with an example. TLO 6.2. Give features and uses of fabrics. TLO 6.3 Enlist types of natural fabrics.	6.1 Classification of Fabrics i. Natural Fabric ii. Synthetic Fabric 6.2 Types of fabrics and their features iii. Cotton Fabrics iv. Polyester Fabric v. Linen Fabric vi. Silk vii. Denim viii. Velvet ix. Jersey Fabric x. Georgette Fabric xi. Pile Fabric	Video Demonstrations Chalk-Board	CO6
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V.LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL / TUTORIAL EXPERIENCES.
NOT APPLICABLE

VI. SUGGESTED MICRO PROJECT/ASSIGNMENT/ACTIVITIES FOR SPECIFIC LEARNING/SKILLS DEVELOPMENT (SELF-LEARNING)
NOT APPLICABLE

VII. LABORATORY EQUIPMENT/INSTRUMENTS/TOOLS/SOFTWARE REQUIRED
NOT APPLICABLE

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

Sr. No	Unit	Unit Title	Aligned COs	Learning Hours	R-Level	U-Level	A-Level	Total Marks
1	I	FABRIC CONSTRUCTION	1	12	06	08	--	14
2	II	WEAVES-PROPERTIES AND USES.	2	08	04	08	--	12
3	III	KNITTING AND TECHNICAL FABRICS.	3	10	04	04	04	12
4	IV	NONWOVEN AND ANIMAL SKIN FABRICS	4	10	02	06	02	10
5	V	PRE-TREATMENT AND FINISHES	5	10	02	02	06	10
6	VI	FABRIC STUDY	6	10	02	02	08	12
				60	20	30	20	70

IX. ASSESSMENT METHODOLOGIES/TOOLS

Formative assessment (Assessment for Learning)	Summative Assessment (Assessment of Learning)
1 Mid-term tests 2 Rubrics for Micro Project	1 End-of-Term Examination

X.SUGGESTED COS- POS MATRIX FORM

Course Outcomes (COs)	Programme Outcomes(POs)							Programme Specific Outcomes *(PSOs)	
	PO-1 Basic and Discipline-Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO-1	PSO-2
CO1	03	--		01	--	--	02	--	01
CO2	03	01	01	02	--	--	01	01	01
CO3	--			01	--	--	--	--	01
CO4	--	01	01	02	--	--	01	01	01
CO5	--	--	--	01	--	--	02	--	01
CO6	--	--	03	01	01	02	--	--	01
Legends:- High:03, Medium:02, Low:01, No Mapping: -- *PSOs are to be formulated at the institute level									





XI. SUGGESTED LEARNING MATERIALS/BOOKS

Sr.No	Author	Title	Publisher
1	Virginia Hencken Elsasser, Julia Ridgway Sharp	Textiles, Concepts and Principles	Fairchild Books, ISBN:9781501366550, 1501366556
2	Jessica Hemmings	Warp and Weft: Woven Textiles in Fashion, Art and Interiors	A&C Black, ISBN:9781408134443, 1408134446
3	Oelsner, G.H. Dale, Semuel S. Translator	A Handbook of Weaves	New York, Dover Publication, Inc., 1952 ISBN-9780486231693
4	Akshay Tholia	Understanding fabric a practical approach	Serv International Jaipur, ASIN: B00ZFR9U4U
5	J.J. Pizutto	Fabric Science	Bloomsbury Academic, ISBN:9781609013806, 1609013808
6	Abhijit Majumdar	Principles of Woven Fabric Manufacturing	CRC Press, ISBN:9781498759137, 1498759130
7	NIIR Board of Consultants & Engineers	The Complete Technology Book on Textile, Spinning, Weaving, Finishing and Printing	Asia Pacific Business Press Inc., ISBN:9788178331638

XII. LEARNING WEBSITES & PORTALS

Sr.No	Link/Portal	Description
1.	https://craftatlas.co/crafts/technique/weaving#:~:text=Weaving%20is%20a%20method%20of,are%20the%20we	Weaving 2
2.	https://www.britannica.com/technology/weaving	Woven fabric weaving
3.	https://www.textiletoday.com.bd/types-non-woven-fabrics-manufacturing-processes-applications	Nonwoven fabric
4.	https://en.wikipedia.org/wiki/Knitting#Tools	Knitting needles and tools
5.	https://knittingknowledge.com/knitting-guides/knitting-stitches/	Knitting stitches
6.	http://www.zjgaktex.com/html/2020/conews_0713/31.html	Knitting and knit fabric characteristics
7.	https://textclothsustain.springeropen.com/articles/10.1186/s40689-016-0012-7#:~:text=The%20conventio	Sustainable processes for pre-treatment of cotton fabric
8.	https://www.linkedin.com/pulse/pre-treatment-process-woven-fabric-shahriar-shovon#:~:text=Pre%2Dtre	Pre-treatment Process
9.	https://textileapex.com/different-types-of-fabric-finishes/	Fabric Finishes

Note: Teachers are requested to check the Creative Commons license status/financial implications of the suggested online educational resources before use by the students

Name & Signature:  Mrs. Shubhangi M. Waghchaure Lecturer in DDGM		Name & Signature:  Mrs. Shubhangi N. Shinde Lecturer in DDGM	
(Course Experts)			
Name & Signature:  Mr. S.S. Prabhune (Programme Head)		Name & Signature:  Shri. S. B. Kulkarni (CDC In-charge)	

GOVERNMENT POLYTECHNIC, PUNE

'120 – NEP' SCHEME

PROGRAMME	DIPLOMA IN DDGM
PROGRAMME CODE	08
COURSE TITLE	SURFACE ORNAMENTATION
COURSE CODE	DD 41202
PREREQUISITE COURSE CODE & TITLE	NA

I. LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Abbr	Course Category/s	Learning Scheme					Credits	Paper Duration	Assessment Scheme										Total Marks
				Actual Contact Hrs./Week			SLH	NLH			Theory	Based on LL & TSL				Based on SL					
				CL	TL	LL						Practical									
												FA-TH	SA-TH	Total	FA-PR		SA-PR		SLA		
															Max		Min	Max		Min	
DD41202	Surface Ornamentation		SEC	4	-	4	02	10	5	03	30	70	100	40	25	10	25@	10	25	10	175

Total IKS Hrs for Sem. : 2 Hrs

Abbreviations: CL- Classroom Learning, TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

Legends: @ Internal Assessment, # External Assessment, *# On Line Examination, @\$ Internal Online Examination

Note :

1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.
2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that Course.
3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.* 15 Weeks
5. 1 credit is equivalent to 30 Notional hrs.
6. * Self learning hours shall not be reflected in the Time Table.
7. * Self learning includes micro project / assignment / other activities

II. RATIONALE:

This course helps industries add aesthetic and economic value to products and services before offering them to customers. These traditional embellishment techniques are used as value addition elements to enhance the beauty, utility and quality of any garment and textile. This course introduces students to various value addition techniques used by textile industry, fashion design houses, manufacturers and retail product developers and understand the techniques and technologies of value addition in manufacturing. This course offers a unique opportunity to learn, absorb and utilize India's rich, creative and diverse art heritage to enhance intellectual potential.

III. COURSE LEVEL LEARNING OUTCOMES (CO's)

Students will be able to achieve & demonstrate the following CO's on completion of course-based learning

- CO1 - Use traditional painting and prints for surface ornamentation.
- CO2 - Develop patch work, applique work and quilting to add value to product.
- CO3 - Describe embroidery and fabric manipulation techniques.
- CO4 - Make various contemporary articles using various yarn crafting techniques.
- CO5 - Analyse and use of traditional dyeing and printing for surface ornamentation.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT

Sr. No	Theory Learning Outcomes (TLO'S) aligned to CO's.	Learning content mapped with TLO's.	Suggested Learning Pedagogies	Relevant COs
UNIT 1 – INTRODUCTION TO GARMENT ORNAMENTATION (CL Hrs. - 14, Marks- 14)				
1.	TLO 1.1 write the importance of garment ornamentation. TLO1.2 Enlist traditional textile painting techniques. TLO1.3 List the name of prints, which are used to ornament the fabrics.	1.1 Introduction of fabric or garment ornamentation 1.1.1 Importance of garment ornamentation 1.2 Traditional Textile Painting Techniques and Prints 1.2.1 Introduction, motifs used and methods of construction of following :- Phad Painting, Warli Painting, Gond Painting, Tanjore Painting, Patachitra Painting, Madhubani painting, Mandana Art, Mural painting, Tambour Art 1.2.2 Prints- Toile Prints, Liberty Dot Prints, Animal Prints, Nautical Prints, Folkloric Prints, Ethnic Prints, Patchwork Prints, Script Prints, Oriental Prints, Conversational Prints, Victorian Prints, Pucci Prints, Graphic Prints.	Video, Chalk-Board	CO1
UNIT 2 – CRUST EMBELLISHMENT TECHNIQUES (CL Hrs. - 12, Marks- 14)				
2.	TLO 2.1 State the History, origin, usage, motif and material used for Patch Work, Applique and Quilting. TLO 2.2 Explain traditional types of applique. TLO 2.3 Explain types of quilting. TLO 2.4 Comparison between Patchwork with Applique .	2.1 Patch work - History, introduction, uses, motifs and material used and methods of construction and structural types of patchwork – The block, Overall and Strip piecing. 2.2 Applique- History, introduction, uses, motifs and material used and methods of construction- 2.1.1 Hand Applique , Machine Applique, Reverse Applique 2.1.2 Traditional types of applique- Phulpatti work of Aligarh, Gota work of Jaipur, Pipli work of Orrisa. 2.3 Quilting- 2.3.1 History, introduction, uses, motifs and material used, methods of construction 2.3.2 Quilts around the world- Amish Quilts, Hawaiian Quilts, Baltimore Album or Album Quilts, Charm Quilts	Video Chalk-Board Presentations	CO2
UNIT 3 - ARTE FACT EMBROIDERY TECHNIQUES				

(CL Hrs. - 10, Marks- 14)				
3.	<p>TLO 3.1 State the material used and method of construction of Sequin work, Gold and silver wires work, Bead work, Hand Aari work, Ribbon Work.</p> <p>TLO 3.2 Enlist various Fabric Manipulation techniques.</p> <p>TLO 3.3 State the methods of construction of Smocking.</p> <p>TLO 3.4 List the name of stitches used in smocking.</p>	<p>3.1. Various embroidery techniques- Origin, uses, material used and methods of construction of the following:- Sequin work, Gold and silver wires work, Bead work, Aari work, Ribbon Work</p> <p>3.2 Fabric Manipulation-Origin, uses, material used and methods of construction-</p> <p>3.2.1 Smocking- Preparation of fabric</p> <p>Stitches - Cable stitch, Wave stitch, Stem stitch, Outline stitch, Cable stitch, Wave stitch, Honeycomb stitch. Innovative Smocking</p>	Video Chalk-Board Presentations	CO3
UNIT 4 - YARN CRAFTING TECHNIQUES (CL Hrs. - 12, Marks- 14)				
4.	<p>TLO 4.1 State the usage and material used for laces, braids, crochet and knots of Macrame.</p> <p>TLO 4.2 Explain construction techniques used for Crochet and Macrame.</p> <p>TLO 4.3 Describe importance of yarn crafting techniques.</p> <p>TLO 4.4 Describe role of fringes and tassels used in garments.</p>	<p>4.1 Lace work – Origin, uses, material used, structure, methods of construction and Types of laces - Bobbin lace, Needle lace, Chemical lace.</p> <p>4.2 Braiding - Origin and history, uses, material used, methods of construction and types of braids – Flat braid, Round / circular braid and 3D braids.</p> <p>4.3 Crocheting- Origin and history, uses, material used, types and methods of construction.</p> <p>4.4 Macrame- Origin and history, uses, material used, types and methods of construction.</p> <p>4.5 Fringes and Tassels- Origin and history, uses, material used, methods of construction.</p>	Video Chalk-Board Presentations	CO4
UNIT 5 - TRADITIONAL TEXTILE'S DYING AND PRINTING TECHNIQUES (CL Hrs. - 12, Marks- 14)				
5.	<p>TLO 5.1 List the types of folds in tie and dye.</p> <p>TLO 5.2 Describe the step by step process of Batik.</p> <p>TLO 5.3 Explain the method block printing.</p>	<p>5.1 Tie and Dye - History and introduction, uses, designs, material and methods Used,</p> <p>5.1.1 Tying Techniques : Folds and Pleats, Seeds/Pulses and Coins, Crumpling & Clamping, Innovative methods of Tying</p> <p>5.1.2 Shibori- Kanoko Shibori, Kumo Shibori, Nui Shibori, Miura Shibori, Arashi Shibori, Itajime Shibori</p> <p>5.2 Batik - History and introduction, uses, designs, material and step-by-step method of Batik process.</p> <p>5.3 Block printed textiles - History and introduction, uses, designs, material and methods Used and methods of construction of following-</p> <p>Bagh print, Ajrak print, Dabu print, Gold and Silver Dust print.</p>	Video Chalk-Board Presentations	CO5

V. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL/TUTORIAL EXPERIENCES.

Sr. No	Practical/Tutorial/Laboratory Learning Outcome (LLO)	Laboratory Experiment / Practical Titles /Tutorial Titles	Number of hrs.	Relevant COs
1	LLO 1.1 Identify the different types of painting LLO 1.2 Select appropriate artefacts for painting. LLO 1.3 Select appropriate painting For garment/ article..	Traditional Textile Painting Techniques Prepare a sample of using any two painting techniques for Wall frame on Canvas- Phad Painting, Warli Painting, Gond Painting, Tanjore Painting, Patachitra Painting, Madhubani painting, Mandana Art , Mural painting.	08	CO4
2	LLO 2.1 prepare template for given article. LLO 2.2 Develop Sample/article using patch work, Applique work and Quilting. LLO 2.3 Identify appropriate design,fabrics, colors, stitches and motifs of for patch work, Applique work and Quilting.	Develop the article using patch work, Applique work and Quilting. (Circular Fashion Project)	10	CO4
3	LLO 3.1 Identify appropriate design,fabrics, colors, stitches and motifs of for Embroidery. LLO 3.2 Develop Sample/article Using Sequin ,Gold and silver wires work, bead work and Ribbon work.	Preparing article using following embroidery technique - 1)Sequin work 2)Gold and silver wires work 3)Bead work 4)Ribbon work	10	CO4
4	LLO 4.1 select the stitches for smocking. LLO 4.2 Mark the fabric calculation as per article.	Develop article/ Sample using one type of smocking with different stitches.	06	CO4
5	LLO 5.1 select stitch for given pattern. LLO 5.2 Prepare accessories using Chrochet, Macrame.	Prepare any one accessory using crochet/macrame, accessories.	06	CO4
6	LLO 6.1 select the design as per theme for mentioned article. LLO 6.2 Identify the process for stencil.	Develop a design and prepare dupatta/ stole by using stencil printing.	04	CO4
7	LLO 7.1 Select the type of fabric for Tie and Dye. LLO 7.2 Prepare fabric for tying. LLO 7.3 Use step by step process for Dyeing. LLO 7.4 Develop the Article using Tie & Dye.	Preparing Sample/ article of Tie & Dye Prepare Sample/ article using Tie and Dye techniques. Tie with pleats/ folds/ seeds/ pulses/ coins and crumpling.	04	CO4

8.	LLO 8.1 Select the type of fabric for Batik. LLO 8.2 Prepare fabric for Batik. LLO 8.3 Use step by step process for Batik. LLO 8.4 Develop the Article using Batik.	Preparing Sample/ article of Batik <ul style="list-style-type: none"> Trace the design on the article. Print the article with using appropriate colour. 	04	CO4,5
9.	LLO 9.1 Select the type of fabric for Block Print. LLO 9.2 Prepare fabric for Block Print LLO 9.3 Use step by step process for Block Print. LLO 9.4 Develop the Article using Block Print.	Preparing Sample/ article of Block Print Trace the design on the article. Use the blocks for printing.(IKS)	02	CO4,5
10	LLO 10.1 Identify the various natural dyes. LLO 10.2 Prepare the article using Eco friendly Dyes/ Prints.	Make a article using Eco friendly Dyes/ Print	06	CO4,5

VI. SUGGESTED MICRO PROJECT/ASSIGNMENT/ACTIVITIES FOR SPECIFIC LEARNING/SKILLSDEVELOPMENT (SELF-LEARNING)

Assignments:

1. Make a report on raw material through market research which are use for surface ornamentation.
2. Prepare the record of the application of different ornamentation techniques through searching on different websites.
3. Develop a design for digital printing on any digital app and implement digital printing on the T-Shirt.

Micro Project:

4. Conduct a market survey or e-visit and compile a report on "Applique making techniques used in various countries".
5. Conduct a market survey and compile a swatch library of various types of laces.
6. Write report on, "Wood block printing invention from ancient China, Japan to current techniques used".
7. Collection of photos or develop a library of Traditional paintings of India.

VII.LABORATORY EQUIPMENT/INSTRUMENTS/TOOLS/SOFTWARE REQUIRED

Sr.No	Equipment Name with Broad Specifications	Relevant LLO Number
1	Fabric-Muslin ,Cotton, Khaddar, Silk, Casement, Flannel , Aida (Matty) (As per requirement of project)	1,2,3,4,5,6,7
2	Needles- -1-12-Hand Needle,14-18-Machine Needle	1,2,3,4,5,6,7
3	Embroidery Rings/Hoops-13-27 cm	1,2,3,4,5,6,7,8
4	Embroidery Threads-High quality (Doli/Anchor/DMC)- Six-Stranded Cotton	1,2,3,4,5,6,7,8
5	Yellow and white carbon paper -A4 size	1,2,3,4,5,6,7,8
6	Tracing paper /drawing paper full size ,A-4 size Butter Paper	All
7	Shear of fabric cutting	2,3,4,5,6,7,8,9
8	Natural / Manmade dyes	7,8,9,10

VIII.SUGGESTED FOR WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE

(Specification Table)

Sr. No	Unit	Unit Title	Aligned COs	Learning Hours	R-Level	U-Level	A-Level	Total Marks
1	I	Introduction To Garment Ornamentation	CO1	14	6	4	4	14
2	II	Crust Embellishment Techniques	CO2	12	6	4	4	14
3	III	Arte Fact Embroidery Techniques	CO3	10	6	4	4	14
4	IV	Yarn Crafting Techniques	CO4	12	6	4	4	14
5	V	Traditional Textile'S Dying And Printing Techniques	CO5	12	6	4	4	14
Grand Total				60	30	20	20	70

IX. ASSESSMENT METHODOLOGIES/TOOLS

Formative assessment (Assessment for Learning)	Summative Assessment (Assessment of Learning)
1. Progressive Test 2. Term Work 3. SLA	1. End Term Examination (Theory) 2. End Term Practical Examination

X. SUGGESTED COs- POs MATRIX FORM

Course Outcomes (COs)	Programme Outcomes(POs)							Programme Specific Outcomes *(PSOs)	
	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO-1	PSO-2
CO1	3	-	-	2	2	-	2	-	2
CO2	3	-	-	1	-	-	2	-	2
CO3	3	-	-	2	-	-	2	-	2
CO4	3	1	1	2	2	2	1	-	1
CO5	3	2	2	2	2	2	1	-	1
Legends:- High:03, Medium:02, Low:01, NoMapping: - *PSOs are to be formulated at the institute level									

XI. SUGGESTED LEARNING MATERIALS/BOOKS

Sr.No	Author	Title	Publisher
1	Kamaladevi Chattopadhyaya	Indian Embroidery	Wiley Eastern Limited ISBN-13 :978-0852261118
2	Usha Shrikant-Part-I	Ethnic Embroidery of India Usha Shrikant-part-I	Honesty publishers, ISBN-9788175250796
3	Helen Gibb	The complete Guide- Technique Guide for Making Ribbon flowers and trimmings	KP Books, ISBN-13:978-0873497503
4	Pamela Tuddy	Patch work and Applique	Marshall Cavendish, ISBN- 13: 978-0856852534

XII. LEARNING WEBSITES & PORTALS

Sr.No	Link/Portal	Description
1.	https://nadin.today/tambour-embroidery-a-timeless-art-of-needlework/	Tambour art work
2.	https://www.waxonstudio.com/blog/what-is-shibori-dyeing	Shibori
3.	https://www.yarnspirations.com/en-row/pages/red-heart	Crochet
4.	https://tiskafabrics.com/	Digital printing
5	https://fashion2apparel.com/surface-ornamentation-techniques/	Block, Batik, Screen, Tie and Dye Printing


Name & Signature:

Ms. S.E. Kurzekar
Lecturer – DDGM


(Course Experts)

Mrs. P.V. Toshniwal
Lecturer - DDGM

Name & Signature:


Mr. S.S. Prabhune
(Programme Head)

Name & Signature:


Shri. S.B. Kulkarni
(CDC In-charge)

GOVERNMENT POLYTECHNIC, PUNE

'120 – NEP' SCHEME

PROGRAMME	DIPLOMA IN CE/EE/ET/ME/MT/CM/IT/DDGM
PROGRAMME CODE	01/02/03/04/05/06/07/08
COURSE TITLE	INDIAN CONSTITUTION: CORE CONCEPTS AND VALUES
COURSE CODE	HU21203
PREREQUISITE COURSE CODE & TITLE	NA
CLASS DECLARATION COURSE	NO

I. LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Course Type	Learning Scheme					Credits	Assessment Scheme												Total Marks	
			Actual Contact Hrs./Week	SLHNLH			Paper Duration		Theory Practical			Based on LL & TSL				Based on SL						
												Practical										
									CL	TL	LL	FA-TH	SA-TH	Total		FA-PR		SA-PR		SLA		
Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min											
HU21203	INDIAN CONSTITUTION: CORE CONCEPTS AND VALUES	VEC	1	--	--	1	2	1	--	--	--	--	--	--	--	--	50	20	50			

Total IKS Hrs for Term: 0 Hrs

Abbreviations: CL-Classroom Learning, TL-Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS – Indian Knowledge System, SLA- Self Learning Assessment

Legends: @-Internal Assessment, #- External Assessment, *# - Online Examination, @\$ - Internal Online Examination

Note:

1. FA-TH represents an average of two class tests of 30 marks each conducted during the semester.
2. If a candidate is not securing minimum passing marks in FA-PR (Formative Assessment - Practical) of any course, then the candidate shall be declared as 'Detained' in that course.
3. If a candidate does not secure minimum passing marks in SLA (Self Learning Assessment) of any course, then the candidate shall be declared as 'fail' and will have to repeat and resubmit SLA work.
1. Notional learning hours for the semester are (CL + LL + TL + SL) hrs. * 15 Weeks
4. 1 credit is equivalent to 30 Notional hours.
5. * Self-learning hours shall not be reflected in the Timetable.
6. * Self-learning includes micro-projects/assignments/other activities.

II. RATIONALE:

Introducing a course on the Indian Constitution can provide students with a comprehensive understanding of the country's legal framework and democratic principles. Such a course could cover the historical context of its creation, the structure and functions of the government it establishes, and the fundamental rights and duties of citizens. It could also explore the significant amendments and judicial interpretations that have shaped its evolution over time. This foundational knowledge is not only for fostering informed and engaged citizens who can contribute to the nation's democratic processes but also enriches the educational experience by fostering a sense of national identity and ethical responsibility among future engineers. Furthermore, embedding Electoral Literacy and Voter Education in diploma engineering programs strategically empowers these future professionals with an awareness of their electoral privileges and the workings of democracy.

III. COURSE-LEVEL LEARNING OUTCOMES (CO's):

Students will be able to achieve & demonstrate the following CO's on completion of course-based learning

- CO1:** Foster comprehension of the fundamental principles and goals embedded in the Indian constitution.
CO2: Elaborate on the core rights and duties conferred upon Indian citizens by the Constitution.
CO3: Comprehend the distribution of legislative, executive, and financial powers between the Union and the States.
CO4: Understand the functioning of Indian democracy, encompassing its frameworks and mechanisms at local, state, and national levels.
CO5: Cultivate the skills and perspectives required for active participation in electoral processes, the conscientious exercise of voting rights, and the promotion of informed democratic participation within society.

IV. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT

Sr.No	Theory Learning Outcomes (TLO's) aligned to CO's.	Learning content mapped with TLO's.	Suggested Learning Pedagogies	Relevant COs
UNIT-I INTRODUCTION TO INDIAN CONSTITUTION (CL Hrs-03, Marks-NIL)				
1.	TLO 1.1 Understand the historical context and events leading to the drafting of the Indian Constitution. TLO 1.2 Comprehend the essential features and understand the significance of the Indian Constitution in shaping India's democratic governance and societal ethos. TLO 1.3 Analyze the vision and ideals articulated in the Preamble and their relevance in contemporary Indian society.	1.1 Historical background and making of the Indian Constitution 1.2 Salient features and significance of the Indian Constitution 1.3 Preamble: Vision and Ideals of the Indian Constitution	Presentations Case Studies and Analysis Role-Playing and Simulations Project-Based Learning	CO1
UNIT - II FUNDAMENTAL RIGHTS, FUNDAMENTAL DUTIES AND DIRECTIVE PRINCIPLES (CL Hrs-04, Marks-NIL)				
2	TLO2.1 Understand the introduction and structure of Fundamental Rights in Part III of the Indian Constitution. TLO2.2 Understand the principles of the Right to Equality, Right to Freedom, and Right to Life.	2.1 Fundamental Rights: Introduction & its Scheme under Part -III 2.2 Right to Equality (Article 14-18) 2.3 Right to Freedom (Article 19-22) 2.4 Right to Life (Article 21) 2.5 Fundamental Duties and their Significance under Part IV-A 2.6 Directive Principles of State Policy under Part - IV: importance and	Presentations Case Studies and Analysis Role-Playing and Simulations Project-Based Learning	CO2

	<p>TLO2.3 Identify fundamental duties in general and in particular with the engineering field.</p> <p>TLO2.4: Grasp the significance and practical application of Directive Principles of State Policy outlined in Part IV of the Indian Constitution.</p>	implementation.		
UNIT- III UNION AND STATE EXECUTIVE (CL Hrs-03, Marks-NIL)				
3	<p>TLO 3.1 3.1: Gain insight into the structure and functions of the Union executives and the jurisdiction of the Supreme Court.</p> <p>TLO 3.2 3.2: Understand the organization and responsibilities of the State Executives and the functions of the State Judiciary (High Courts).</p>	<p>3.1 Union Government, Union Legislature (Parliament), Lok Sabha and Rajya Sabha (with Powers and Functions), Union Executive, President of India (with Powers and Functions), Prime Minister of India (with Powers and Functions), Union Judiciary (Supreme Court), Jurisdiction of the Supreme Court.</p> <p>3.2 State Government, State Legislature (Legislative Assembly/ Vidhan Sabha, Legislative Council / Vidhan Parishad), Powers and Functions of the State Legislature, State Executive, Governor Of the State (with Powers and Functions), The Chief Minister Of the State (With Powers and Functions) State Judiciary (High Courts).</p>	<p>Presentations Case Studies and Analysis Role-Playing and Simulations Project-Based Learning</p>	CO3
UNIT-IV AMENDMENTS AND EMERGENCY PROVISIONS (CL Hrs-03, Marks-NIL)				
4	<p>TLO 4.1 Comprehend the meaning and significance of constitutional amendments, as well as the procedural rules detailed in Article 368 of the Indian Constitution.</p> <p>TLO 4.2 Recognize the roles of various branches of government in the amendment process,</p> <p>TLO 4.3 Examine the significant procedures and historical context of major constitutional amendments</p>	<p>4.1 Introduction to Constitutional Amendments: Definition and significance of constitutional amendments. Constitutional provisions governing the amendment procedure (Article 368).</p> <p>4.2 Types of Amendments: Simple majority amendments, Special majority amendments, Amendments requiring ratification by states.</p> <p>4.3 Role of the Executives Amendments: Role of Parliament: Lok Sabha and Rajya Sabha, Role of President: Assent to amendments, Role of State Legislatures: Ratification of certain amendments.</p> <p>4.4 Major Constitutional</p>	<p>Presentations Case Studies and Analysis Role-Playing and Simulations Project-Based Learning</p>	CO4

		Amendment procedures: Major Constitutional Amendment procedures - 1st, 7th, 42nd, 44th, 73rd & 74th, 76th, 86th, 92nd & 96th, 101st & 102nd		
UNIT -V ELECTORAL LITERACY (CL Hrs-02, Marks-NIL)				
5	TLO5. Electoral Literacy: Develop understanding and proficiency in electoral processes, voter registration, rights and responsibilities of voters, electoral reforms, and initiatives promoting electoral literacy.	5.1 Understanding the Electoral Process : Overview of the electoral process: registration, voting, counting, and declaration of results, Role and functions of the Election Commission of India Types of elections: Lok Sabha, Rajya Sabha, State Legislative Assembly, Local Body elections 5.2 Voter Registration and Electoral Rolls: Importance of voter registration Eligibility criteria for voter registration Process of voter registration: online, offline, and special drives Checking and updating voter details in electoral rolls 5.3 Rights and Responsibilities of Voters: Understanding fundamental rights related to elections Responsibilities of voters towards ensuring free and fair elections Consequences of electoral malpractices and non-participation 5.4 Electoral Reforms and Initiatives: Overview of electoral reforms aimed at enhancing transparency, inclusivity, and integrity of elections Role of technology in improving electoral processes: Voter Verifiable Paper Audit Trail (VVPAT), Online voter registration, e-voting Initiatives by the Election Commission and civil society organizations to promote electoral literacy	Presentations Case Studies and Analysis Role-Playing and Simulations Project-Based Learning	CO5

V. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL/ TUTORIAL EXPERIENCES.

NOT APPLICABLE

VI. SUGGESTED MICRO PROJECT/ASSIGNMENT/ACTIVITIES FOR SPECIFIC LEARNING/SKILLS DEVELOPMENT (SELF-LEARNING)

- i) **Case Study Analysis:** Select a few landmark Supreme Court cases related to Fundamental Rights (e.g., Kesavananda Bharati v. State of Kerala, Maneka Gandhi v. Union of India) and analyze the court's interpretation and impact on these rights.
- ii) **Comparative Analysis:** Compare the provisions of the Right to Equality under Articles 14-18 with similar provisions in the constitutions of other countries. Highlight similarities, differences, and the reasoning behind them.
- iii) **Public Awareness Campaign:** Design a public awareness campaign to educate citizens about their Fundamental Rights and Duties. Create informative posters, social media content, and interactive workshops to engage people in discussions about constitutional rights and responsibilities.
- iv) Write a reflective essay discussing the historical context and debates surrounding the inclusion of Fundamental Rights in the Indian Constitution.
- v) Create a visual timeline depicting the evolution of laws related to equality in India, from independence to the present day. Include major legislative reforms and judicial decisions.
- vi) Conduct a comparative analysis of the implementation of Directive Principles in different states of India, identifying successful initiatives and areas needing improvement.
- vii) **Case Study Analysis:** Choose a recent constitutional or political issue that has been debated in Parliament. Analyze the roles played by the Lok Sabha and Rajya Sabha in addressing the issue and the impact of their decisions.
- viii) **Case Study Analysis:** Analyze a landmark constitutional amendment in India (e.g., the 42nd Amendment) and its impact on governance, fundamental rights, and the balance of power between different branches of government.
- ix) **Infographic Creation:** Create an infographic illustrating the process of amending the Indian Constitution as outlined in Article 368. Highlight key steps and requirements for different types of amendments.
- x) **Timeline Project:** Create a timeline highlighting major constitutional amendments in India, such as the 1st, 7th, 42nd, 44th, 73rd & 74th, 76th, 86th, 52nd & 91st, and 102nd amendments. Include key provisions and the political context surrounding each amendment.
- xi) **Debate:** Organize a debate on the topic "Should the President have the power to refuse assent to constitutional amendments?" Encourage students to research and present arguments from legal, political, and ethical perspectives.
- xii) **Campaign Design:** Design a social media campaign to raise awareness about the importance of voter participation and responsible voting. Create visually engaging posters, infographics, and videos highlighting the consequences of electoral malpractices and non-participation.
- xiii) **Online Tutorial:** Create a step-by-step tutorial video or guide demonstrating the voter registration process, both online and offline. Include instructions for checking and updating voter details in electoral rolls.
- xiii) **Survey Project:** Conduct a survey to assess the awareness and accessibility of voter registration.

facilities among different demographic groups in your locality. Analyze the results and propose strategies to improve voter registration rates.

VII. LABORATORY EQUIPMENT/INSTRUMENTS/TOOLS/SOFTWARE REQUIRED

NOT APPLICABLE

**VIII. SUGGESTED FOR WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE
(Specification Table)**

NOT APPLICABLE

IX. ASSESSMENT METHODOLOGIES/TOOLS

Formative assessment (Assessment for Learning)	Summative Assessment (Assessment of Learning)
Assignment, Self-learning and Terms work Seminar/Presentation	—

X. SUGGESTED COS- POS MATRIX FORM


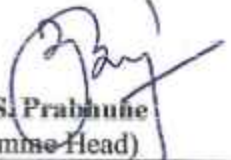

Course Outcomes (Cos)	Programme Outcomes(Pos)							Programme Specific Outcomes *(PSOs)	
	PO-1 Basic and Discipline-Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO-1	PSO-2
CO1	--	--	--	--	2	--	2		
CO2	--	--	--	--	3	--	2		
CO3	--	--	--	--	3	--	2		
CO4	--	--	--	--	3	--	2		
CO5	--	--	--	--	3	--	2		
Legends:- High:03, Medium:02, Low:01, No Mapping: - *PSOs are to be formulated at the institute level									

XL SUGGESTED LEARNING MATERIALS/BOOKS

Sr.No	Author	Title	Publisher
1	M. Laxmikanth	"Indian Polity"	McGraw Hill Education: ISBN-13: 978-9352603633
2	D. D. Basu	Introduction to the Constitution of India	LexisNexis: ISBN-13: 978-8180386477
3	Subhash C. Kashyap	Our Constitution: An Introduction to India's Constitution and Constitutional Law	National Book Trust, India ISBN-13: 78-8123748462
4	Arun K. Thiruvengadam	The Constitution of India: A Contextual Analysis	Oxford University Press ISBN-13: 978-0199467078
5	Oxford University Press	The Making of India's Constitution	Oxford University Press Oxford University Press

XI LEARNING WEBSITES & PORTALS

Sr.No.	Link/Portal	Description
1	https://prsindia.org/	In-depth analysis of parliamentary affairs, legislative processes, and policy issues in India.
2	https://awmin.gov.in	Official repository providing access to the full text of the Indian Constitution.
3	https://constitution.org.in	Interactive platform offering the text of the Constitution along with annotations and historical context.
4	https://indiankanoon.org	Legal search engine offering a vast database of Indian case law, including constitutional judgments.
5	https://nptel.ac.in	Offers video lectures and course materials on studies of law and the constitution.

Name & Signature:	
 Mr. S.B. Kulkarni Lecturer in Mechanical Engineering (Course Experts)	
Name & Signature:	Name & Signature:
 Shri. S.S. Prabhune (Programme Head)	 Shri. S.B. Kulkarni (CDC In-charge)