

Program Name : Diploma in Fashion and Clothing Technology
Program Code : DC
Semester : Fourth
Course Title : Design and Manufacture of Womens' Wear
Course Code : 22046

1. RATIONALE

Designing and quality garment production is major requirements of women's wear. Students will learn about various designer aspects after learning this course. They will be able to overcome practical problems in manufacturing of women's wear. They will be able to judge the costing components involved in women's wear. Students will learn brand positions and acceptance, design establishment and fashion cycle is required for one professional along with the knowledge of patterning.

2. COMPETENCY

The theory, practical experiences and relevant soft skills associated with this course are to be taught and implemented, so that the student demonstrates the following industry oriented COs associated with the above mentioned competency:

- **Develop formal-wear, casual-wear and inner-wear for women.**

3. COURSE OUTCOMES (COs)

The theory, practical experiences and relevant soft skills associated with this course are to be taught and implemented, so that the student demonstrates the following *industry oriented* COs associated with the above mentioned competency:

- Select the apparels for women's wear for end use.
- Minimise fabric consumption for various widths of fabrics.
- Use innovative trims.
- Construct different types of women's wear.

4. TEACHING AND EXAMINATION SCHEME

Teaching Scheme				Credit (L+T+P)	Examination Scheme												
L	T	P	Theory						Practical								
			Paper Hrs.		ESE		PA		Total		ESE		PA		Total		
Max	Min	Max		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min			
1	-	4	5	-	-	-	-	-	-	-	-	50#	20	50~	20	100	40

'#':No Practical Examination, (~): For the *practical only courses*, the PA has two components under practical marks i.e. the assessment of practicals (seen in section 6) has a weightage of 60% (i.e.30 marks) and micro-project assessment (seen in section 12) has a weightage of 40% (i.e.20 marks). This is designed to facilitate attainment of COs holistically, as there is no theory ESE.

Legends: L-Lecture; T – Tutorial/Teacher Guided Theory Practice; P - Practical; C – Credit, ESE - End Semester Examination; PA - Progressive Assessment, #: No theory paper.

5. COURSE MAP (with sample COs, PrOs, UOs, ADOs and topics)

This course map illustrates an overview of the flow and linkages of the topics at various levels of outcomes (details in subsequent sections) to be attained by the student by the end of the



course, in all domains of learning in terms of the industry/employer identified competency depicted at the centre of this map.

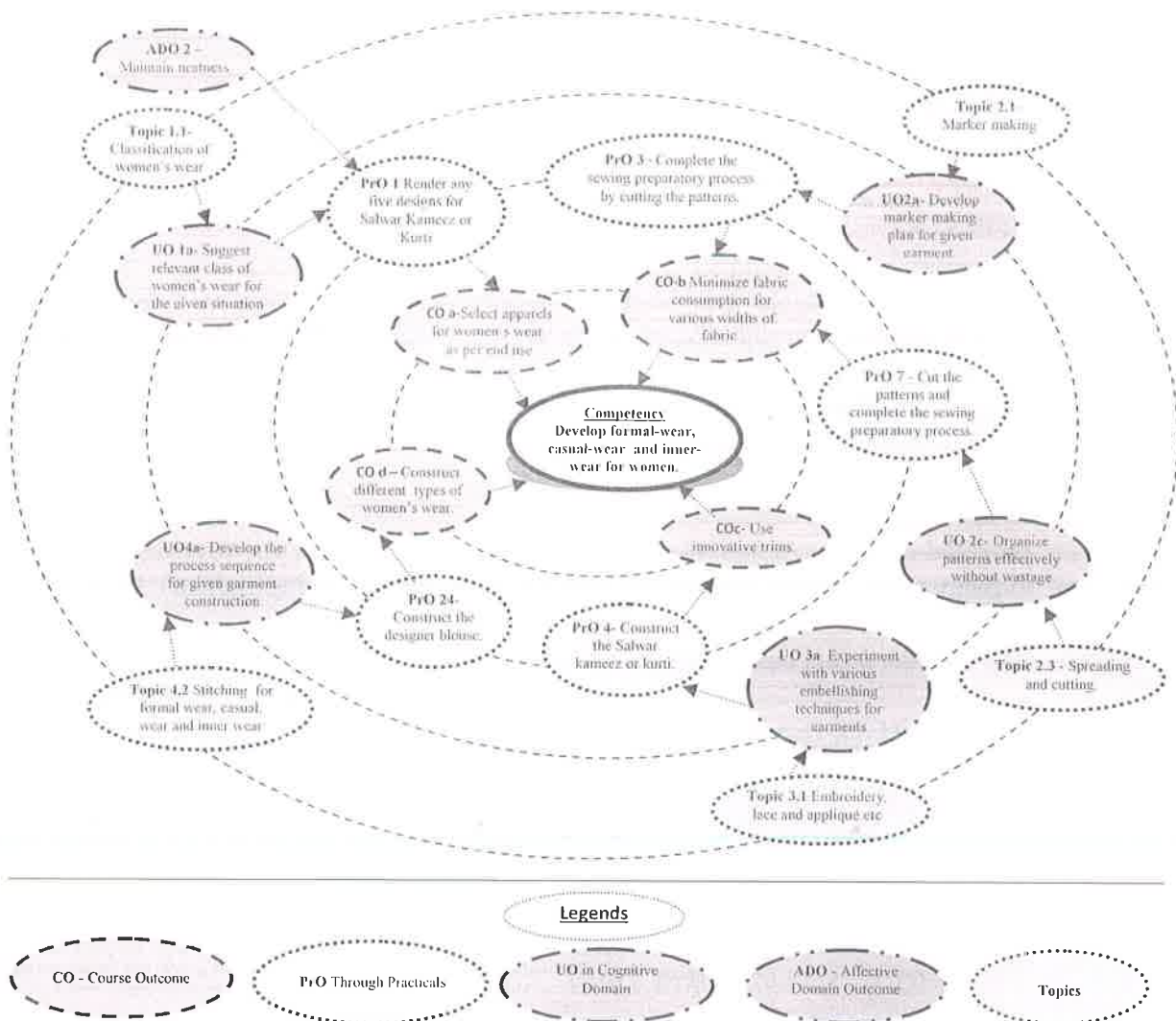


Figure 1 - Course Map

6. SUGGESTED PRACTICALS/ EXERCISES

The practicals in this section are PrOs (i.e. sub-components of the COs) to be developed and assessed in the student for the attainment of the competency.

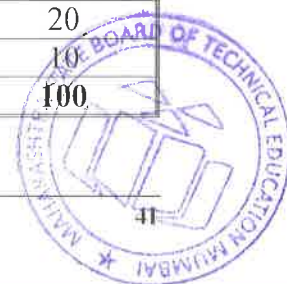
S. No.	Practical Outcomes (PrOs)	Unit No.	Approx. Hrs. Required
1	Render any five designs for Salwar Kameez or Kurti.	I	2*
2	Prepare pattern for selected design of Salwar Kameez or Kurti.	II	2*
3	Complete the sewing preparatory process by cutting the patterns	II,III	2*
4	Construct the Salwar kameez or kurti.	IV	2
5	Render any five designs for basic formal trouser or formal skirt.	I	2*
6	Prepare pattern for selected design of formal trouser or formal skirt.	II	2
7	Cut the patterns and complete the sewing preparatory process.	II,III	2*
8	Construct the formal trouser or formal skirt.	IV	2

S. No.	Practical Outcomes (PrOs)	Unit No.	Approx. Hrs. Required
9	Render any five designs for formal shirt .	I	2
10	Prepare pattern for any one design from PrO No. 9.	II	2
11	Cut the patterns and complete the sewing preparatory process.	II,III	2*
12	Construct the formal shirt.	IV	2
13	Render any five designs for designer casual lower.	I	2
14	Prepare pattern for any one design from PrO No. 13	II	2
15	Cut the patterns and complete the sewing preparatory process.	II,III	2*
16	Construct the designer casual lower.	IV	2
17	Render any five designs for brassiere and panty.	I	2
18	Prepare pattern for any one design from PrO No. 17	II	2
19	Cut the patterns and complete the sewing preparatory process for PrO No. 18.	II,III	2
20	Construct the brassiere and panty.	IV	2*
21	Render any five designs for designer blouse.	I	2
22	Prepare pattern for any one design from PrO no. 21	II	2
23	Cut the patterns and complete the sewing preparatory process for PrO No. 22.	II,III	2*
24	Construct the designer blouse.	IV	2
25	Render any five designs for one-piece dress.	I	2
26	Prepare pattern for any one design from PrO no. 25	II	2
27	Cut the patterns and complete the sewing preparatory process for PrO No. 26.	II,III	2*
28	Construct the one-piece dress.	IV	2
29	Render any five designs for casual knitted jacket.	I	2
30	Prepare pattern for any one design from PrO No. 29	II	2
31	Cut the patterns and complete the sewing preparatory process.	II,III	2
32	Construct the casual knitted jacket.	IV	2*
	Total		64

Note

- i. A suggestive list of PrOs is given in the above table. More such PrOs can be added to attain the COs and competency. A judicious mix of minimum 24 or more practical need to be performed, out of which, the practicals marked as '*' are compulsory, so that the student reaches the 'Application Level' of Bloom's Taxonomy' as generally required by the industry.
- i. The 'Process' and 'Product' related skills associated with each PrO are to be assessed according to a suggested sample given below:

S. No.	Performance Indicators	Weightage in %
1.	Selecting proper material	10
2.	Selecting proper color combinations.	20
3.	Innovative concepts	20
4.	Presentation of garments.	20
5.	Finishing	20
6.	Submit write up and garment in time.	10
	Total	100



The above PrOs also comprise of the following social skills/attitudes which are Affective Domain Outcomes (ADOs) that are best developed through the laboratory/field based experiences:

- a. Follow safety practices.
- b. Practice good housekeeping.
- c. Demonstrate working as a leader/a team member.
- d. Maintain tools and equipment.
- c. Follow ethical Practices.

The ADOs are not specific to any one PrO, but are embedded in many PrOs. Hence, the acquisition of the ADOs takes place gradually in the student when s/he undertakes a series of practical experiences over a period of time. Moreover, the level of achievement of the ADOs according to Krathwohl's 'Affective Domain Taxonomy' should gradually increase as planned below:

- 'Valuing Level' in 1st year
- 'Organising Level' in 2nd year
- 'Characterising Level' in 3rd year.

7. MAJOR EQUIPMENT/ INSTRUMENTS REQUIRED

The major equipment with broad specifications mentioned here will usher in uniformity in conduct of experiments, as well as aid to procure equipment by administrators.

S. No.	Equipment/Instruments/Other resources name with Broad Specifications	PrO. No.
1	Pencils – HB, 2B, H, 2H	All
2	Colours – water colours, poster colours, colour pencils	All
3	Brown paper	All
4	Tracing wheel	All
5	Scissors – Zigzag scissor, Knives	All
6	Materials used such as – cotton, linen, chiffon, georgette, jute, single jersey, double jersey, velvet, leather, fur, wool, net, felt, taffeta, satin, tissue, organdy.	All
7	Trims used such as – buttons, zippers, laces, threads, labels, patches, hooks, studs	All
8	Embellishments – stones, beads, feathers, gems, pearls, sequins, bows, tassels and charms	All
9	Sewing machines – SNLS, DNLS, Overlock machine, Bartack machine, button stitch machine, button hole making machine, flat lock machine, interlock machine, special purpose machines	All

8. UNDERPINNING THEORY COMPONENTS

The following topics are to be taught and assessed in order to develop the sample UOs given below for achieving the COs to attain the identified competency. More UOs could be added.

Unit	Unit Outcomes (in cognitive domain)	Topics and Sub-topics
Unit – I Women's Fashion industry	1a. Suggest relevant class of women's formal wear for the given situation with justification. 1b. Suggest relevant class of women's casual	1.1 Classification of women's wear 1.2 Brands in women's wear



Unit	Unit Outcomes (in cognitive domain)	Topics and Sub-topics
	wear for the given situation with justification. 1c. Suggest relevant class of women's inner wear for the given situation with justification. 1d. Identify the brand value and product range of specified brand.	
Unit – II Marker Making and Cutting	2a. Develop marker making plan for given garment. 2b. Suggest ways to optimise the use of fabric yardage with justification. 2c. Suggest ways to organize the specified patterns effectively without wastage. 2d. Suggest ways to spread and cut the specified fabric for the given type of garment	2.1 Marker making 2.2 Minimizing fabric consumption for various widths of fabric 2.3 Spreading and cutting
Unit – III Innovative Trims and Surface Trimmings	3a. Suggest creative embellishing techniques for the given type of garments with justification. 3b. Select the relevant zippers with their specifications for given class of garment with justification. 3c. Choose the relevant welcro/decorative fasteners with their specifications for given class of garment with justification. 3d. Select the relevant buttons/show buttons with their specifications for given class of garment with justification.	3.1 Interfacing, lining, bias trimming, Ric-rac, ruffles, smocking, shearing, faggoting, scalloped edging, Embroidery, lace and appliqué. 3.2 Trims -Button, zippers, welcro, decorative fasteners, show buttons.
Unit – IV Garment Construction	4a. Describe with sketches the procedure to develop the sequence to construct the given garment. 4b. Select the relevant type of stitching for given type of wear with justification. 4c. Identify relevant machine and equipment to construct women's wear.	4.1 Machinery and equipment required for women's wear construction. 4.2 Stitching for formal wear, casual, wear and inner wear 4.3 Operation bulletin for garment construction.

Note: To attain the COs and competency, above listed UOs need to be undertaken to achieve the 'Application Level' and above of Bloom's 'Cognitive Domain Taxonomy'

9. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

- Not applicable -

10. SUGGESTED STUDENT ACTIVITIES



Other than the classroom and laboratory learning, following are the suggested student-related *co-curricular* activities which can be undertaken to accelerate the attainment of the various outcomes in this course: Students should conduct following activities in group and prepare reports of about 5 pages for each activity, also collect/record physical evidences for their (student's) portfolio which will be useful for their placement interviews:

- a. Organizing exhibitions.
- b. Taking Custom orders for learn and earn activity.
- c. Visiting various Designer outlets, Retail showrooms for observing the contemporary application techniques and report preparation.
- d. Visit tribal places for skill development and collecting samples.

11. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES

These are sample strategies, which the teacher can use to accelerate the attainment of the various outcomes in this course:

- a. Massive open online courses (*MOOCs*) may be used to teach various topics/sub topics.
- b. '*L*' in item No. 4 does not mean only the traditional lecture method, but different types of teaching methods and media that are to be employed to develop the outcomes.
- c. About *15-20% of the topics/sub-topics* which is relatively simpler or descriptive in nature is to be given to the students for *self-directed learning* and assess the development of the COs through classroom presentations (see implementation guideline for details).
- d. With respect to item No.10, teachers need to ensure to create opportunities and provisions for *co-curricular activities*.
- e. Guide student(s) in undertaking micro-projects.

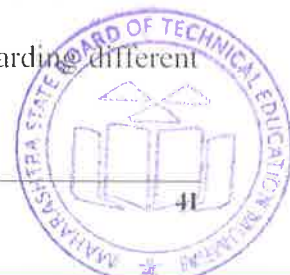
12. SUGGESTED LIST OF MICRO PROJECTS

Only one micro-project is planned to be undertaken by a student that needs to be assigned to him/her in the beginning of the semester. In the first four semesters, the micro-project are group-based. However, in the fifth and sixth semesters, it should be preferably be *individually* undertaken to build up the skill and confidence in every student to become problem solver so that s/he contributes to the projects of the industry. In special situations where groups have to be formed for micro-projects, the number of students in the group should *not exceed three*.

The micro-project could be industry application based, internet-based, workshop-based, laboratory-based or field-based. Each micro-project should encompass two or more COs which are in fact, an integration of PrOs, UOs and ADOs. Each student will have to maintain dated work diary consisting of individual contribution in the project work and give a seminar presentation of it before submission. The total duration of the micro-project should not be less than *16 (sixteen) student engagement hours* during the course. The student ought to submit micro-project by the end of the semester to develop the industry oriented COs.

A suggestive list of micro-projects are given here. Similar micro-projects could be added by the concerned faculty:

- a. Market survey for collecting materials for developing women's apparel.
- b. Collect the pictures of indo-western garments and prepare the catalog for the same.
- c. Collect the pictures of recent national fashion weeks for casual, formal and inner wear and prepare the catalog for the same.
- d. Select any one well known women's wear brand and collect their special features in form of photos or sketches related to type of material, embellishment, style, and color. Design two garments based on brand study.
- e. Visit the garment manufacturing industry and collect information regarding different work aids used for garments.



- f. Visit the garment manufacturing industry to collect the data regarding various quality check points used for women's wear.

13. SUGGESTED LEARNING RESOURCES

S. No.	Title of Book	Author	Publication
1	Inside Fashion Business	Kitty, Dickerson G.	Pearson Education, New Delhi, ISBN - 978-0130108555
2	Clothing Technology – From fibre to fashion	Hannelore, Eberle	Verlag Europa-Lehrmittel Nourney, Vollmer GmbH and C; New Delhi, 2008, ISBN- 978-3808562253
3	Pattern Making for Fashion Design	Armstrong, Helen Joseph	Pearson Education, India; (2013), ISBN- 978-9332518117
4	The technology of Clothing Manufacture	Carr, Harold and Latham Barbara	John Wiley and Sons New York, 1988; ISBN-978-0632021932
5	Sewing Lingerie	Sewing Singer	Random House, Canada 1991; ISBN-978-0865732612
6	Pattern Cutting for Lingerie, Beachwear and Leisurewear	Haggar, Ann	Wiley-Blackwell; 2008; ISBN - 978-1405118583
7	Garment Technology for Fashion Designers	Cooklin, Gerry	Wiley-Blackwell; 2012; ISBN - 978-1405199742
8	Metric pattern cutting for Women's wear	Winifred, Aldrich	Wiley Blackwell (2014) ISBN - 978-8126548415

14. SUGGESTED SOFTWARE/LEARNING WEBSITES

- www.apparelsearch.com/apparel/womens/womens_apparel.htm
- www.fortune.com/2015/05/26/women-clothing-purchases-ann-taylor/
- www.texeducation.wordpress.com/2013/12/24/marker-planning/
- www.textilelearner.blogspot.in/2015/09/marker-planning-requirements-of-marker.html
- www.apparel-merchandising.com/2012/05/marker-making-cutting-part-2/
- www.gmtmerchandising.blogspot.in/2013/08/marker-planning-and-making-in-garment.html
- www.textilelearner.blogspot.in/2013/10/how-to-decorate-garment-fabricgarment.html
- www.skillshare.com/classes/Make-Your-Own-Clothing-Introduction-to-Garment-Construction/1805216824
- www.threadsmagazine.com/garment-construction



