

# Maharashtra State Board of Vocational Examination, Mumbai 400 051

1	Name of Course	Diploma Course in Fashion Technology																																																																																																				
2	Course code	410408																																																																																																				
3	Max no. of Students	25 Students																																																																																																				
4	Duration	2 year																																																																																																				
5	Course Type	Full Time																																																																																																				
6	No. of Days per week	6 days																																																																																																				
7	No. of hours per day	7 Hrs																																																																																																				
8	Space require	Theory Class Room – 200 sqft, Lab Sub.– 1500 sqft, Lab Elective - 400 sqft <b>Total = 2100 Sq.Ft.</b>																																																																																																				
9	Entry qualification	S.S.C. Pass																																																																																																				
10	Objective of syllabus	This course is specially designed for the students to get familiar with the world of fashion. From the ancient age to the current & make a career in Fashion Technology.																																																																																																				
11	Employment opportunities	After completing the course can be work as a Fashion Designer, Merchandiser, Production Manager, Asst. Fashion Merchandiser, Quality Head in Garment Manufacturing Industry. Self Employment.																																																																																																				
12	Teachers Qualification	1) For Vocational subject - Degree in Fashion Designing. 2) For Non Vocational Subject – Master Degree in Concerned Subject.																																																																																																				
13	<b>Teaching Scheme –</b> <table><tr><th rowspan="2">Sr.</th><th rowspan="2">Subject</th><th rowspan="2">Subject Code</th><th colspan="2">Clock Hours / Week</th><th rowspan="2">Total</th></tr><tr><th>Theory</th><th>Practical</th></tr><tr><td>1</td><td>English (Communication Skill)</td><td>90000001</td><td>2 Hrs</td><td>1 Hrs</td><td>3 Hrs</td></tr><tr><td>2</td><td>Elective – I</td><td>--</td><td>2 Hrs</td><td>1 Hrs</td><td>3 Hrs</td></tr><tr><td>3</td><td>Elective – II</td><td>--</td><td>2 Hrs</td><td>1 Hrs</td><td>3 Hrs</td></tr><tr><td>4</td><td>Paper Pattern Making</td><td>410400001</td><td>3 Hrs</td><td>8 Hrs</td><td>11 Hrs</td></tr><tr><td>5</td><td>Garment Making</td><td>410400002</td><td>3 Hrs</td><td>8 Hrs</td><td>11 Hrs</td></tr><tr><td>6</td><td>History of Fashion</td><td>410400012</td><td>3 Hrs</td><td>8 Hrs</td><td>11 Hrs</td></tr><tr><td colspan="5">Total</td><td>42 Hrs</td></tr></table>						Sr.	Subject	Subject Code	Clock Hours / Week		Total	Theory	Practical	1	English (Communication Skill)	90000001	2 Hrs	1 Hrs	3 Hrs	2	Elective – I	--	2 Hrs	1 Hrs	3 Hrs	3	Elective – II	--	2 Hrs	1 Hrs	3 Hrs	4	Paper Pattern Making	410400001	3 Hrs	8 Hrs	11 Hrs	5	Garment Making	410400002	3 Hrs	8 Hrs	11 Hrs	6	History of Fashion	410400012	3 Hrs	8 Hrs	11 Hrs	Total					42 Hrs																																														
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14	Internship	Two Month Summer Internship from 1 <sup>st</sup> May to 30 <sup>th</sup> June is Compulsory.																																																																																																				
15	<b>Examination Scheme – Final Examination will be based on syllabus of both years.</b> <table><tr><th rowspan="2">Paper</th><th rowspan="2">Subject</th><th rowspan="2">Subject Code</th><th colspan="3">Theory</th><th colspan="3">Practical</th><th colspan="2">Total</th></tr><tr><th>Duration</th><th>Max</th><th>Min</th><th>Duration</th><th>Max</th><th>Min</th><th>Max</th><th>Min</th></tr><tr><td>1</td><td>English (Communi- cation Skill)</td><td>90000001</td><td>3 Hrs</td><td>70</td><td>25</td><td>3 Hrs</td><td>30</td><td>15</td><td>100</td><td>40</td></tr><tr><td>2</td><td>Elective – I</td><td>--</td><td>3 Hrs</td><td>70</td><td>25</td><td>3 Hrs</td><td>30</td><td>15</td><td>100</td><td>40</td></tr><tr><td>3</td><td>Elective – II</td><td>--</td><td>3 Hrs</td><td>70</td><td>25</td><td>3 Hrs</td><td>30</td><td>15</td><td>100</td><td>40</td></tr><tr><td>4</td><td>Paper Pattern Making</td><td>410400001</td><td>3 Hrs</td><td>100</td><td>35</td><td>3 Hrs</td><td>100</td><td>50</td><td>200</td><td>85</td></tr><tr><td>5</td><td>Garment Making</td><td>410400002</td><td>3 Hrs</td><td>100</td><td>35</td><td>3 Hrs</td><td>100</td><td>50</td><td>200</td><td>85</td></tr><tr><td>6</td><td>History of Fashion</td><td>410400012</td><td>3 Hrs</td><td>100</td><td>35</td><td>3 Hrs</td><td>100</td><td>50</td><td>200</td><td>85</td></tr><tr><td colspan="9">Total</td><td>900</td><td>375</td></tr></table>						Paper	Subject	Subject Code	Theory			Practical			Total		Duration	Max	Min	Duration	Max	Min	Max	Min	1	English (Communi- cation Skill)	90000001	3 Hrs	70	25	3 Hrs	30	15	100	40	2	Elective – I	--	3 Hrs	70	25	3 Hrs	30	15	100	40	3	Elective – II	--	3 Hrs	70	25	3 Hrs	30	15	100	40	4	Paper Pattern Making	410400001	3 Hrs	100	35	3 Hrs	100	50	200	85	5	Garment Making	410400002	3 Hrs	100	35	3 Hrs	100	50	200	85	6	History of Fashion	410400012	3 Hrs	100	35	3 Hrs	100	50	200	85	Total									900	375
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16	Teachers – Three Teachers per batch for vocational component. For English, Elective-I & II guest faculty on clock hour basis.																																																																																																					
17	a) For Elective I – Student can choose any one subject Code Subject Name 90000011 Applied Mathematics 90000012 Business Economics 90000013 Physical Biology (Botany & Zoology) 90000014 Entrepreneurship 90000015 Psychology			b) For Elective II – Student can choose any one subject Code Subject Name 90000021 Applied Sciences (Physics & Chemistry) 90000022 Computer Application 90000023 Business Mathematics																																																																																																		

## Subject Name – Paper Pattern Making – 1<sup>st</sup> year

**(Subject Code – 41040001)**

	Theory		Practical
1)	a) Introduction to standard measurements b) Measurement Charts c) Various methods of taking measurements (direct, indirect, landmarks). d) Classification of measurements - Circumference, Horizontal and Vertical measurements.	1)	Methods of taking body measurements. <ul style="list-style-type: none"> <li>- Land marks &amp; taking anthropometrics measurement</li> <li>- Measurements from Garments.</li> </ul>
2)	Methods of developing a pattern <ul style="list-style-type: none"> <li>1) Flat pattern</li> <li>2) Draping</li> </ul>	2)	Practice of using squares and scales, French curve for arm hole, necklines et. Practice of using other equipments.
3)	Tools & equipments used for Pattern Making. Scissors, measuring tapes, pins & pin holders, measuring tapes, markers, French Curves Scales, leg-shapes, notchers, tracing wheel etc.	3)	1) Drawing of child's panty 2) Bloomers 3) Childs bodice block & sleeve block, 4) child's skirt block.
4)	Style interpretation. <ul style="list-style-type: none"> <li>1) How it is done?</li> <li>2) Benefits of Style Interpretation</li> <li>3) Style Interpretation</li> </ul>	4)	Style interpretation of any given design.
5)	Terminology used for pattern Making, Pattern Drafting, Flat Pattern Making, Basic Pattern Set, templates, Working Pattern, Production Pattern, Design Specification sheet, Pattern Chart, Cast Sheet, Grain, Warp, Weft, Selvedge, bias, true bias, apex, dart, dart legs, dart intake, tracing and blending, plump line, vertical, horizontal & perpendicular lines, symmetrical and asymmetrical lines, style na pattern size, pivotal point, pattern manipulation	5)	Adaptation of child's bodice to-yokes, bodies length.
6)	Principles of Pattern making – manipulation addition continuous.	6)	Adaptation of basic sleeve to Balloon sleeve, Flared sleeve, puff sleeve, cap sleeve, Magyar sleeve, petal sleeve, Leg-o-mutton sleeve.
7)	Pattern details – collars, sleeves, Yokes – functional & decorative Princess line & Empire line, Pockets.	7)	Draping & adaption of various collars. <ul style="list-style-type: none"> <li>1) Body Collar</li> <li>2) PeterPan Collar – Flat &amp; Raised.</li> <li>3) Cape collar, Sailors collar, Convertible collar.</li> </ul>

8)	Pattern Styles – Skirt terminology categorization of skirts on the basis of length and flare and their variations.	8)	Preparation of various types of packet (extended mock, 2 piece etc) Preparation of neckline variations (round, square cowl, v-shape, ruffle, sweet heart, boat)
9)	Study of the basic figure type, figures defects and developing pattern for them.	9)	Preparation of various types of pockets (patch, bello, welt, bound, set in) Preparation of various types of sleeves, (Plain, Puff, Flared, belt, cap, Magyar)
10)	Study of different types of pockets ( extended mock, 2 piece etc.) Study of neckline variation round, square, cowl, v-shape, ruffle sweet heart, boat.	10)	Practice of attachment of zipper (Concealed open ended, lapped, centered).
11)	Types of pockets ( Patch, bello, welt, bound set in), Types of sleeves ( Plain, Puff, Flared, bell, cap, mogyar) Types of Fastens – Zippers.		

**Subject Name – Paper Pattern Making – 2nd year**  
**(Subject Code – 41040001)**

	Theory		Practical
1)	Introduction to the layout laying out the pattern pieces, marking & trasferzing the pattern details, cutting.	1)	Planning layouts. Placing of draft paper patterns.
2)	Methods of Marker making 1) Manually 2) 2) Machine (Computer Aided Pattern Making)	2)	Planning layouts for various widths & special fabric (e.g. Rlaid, piles and unidirectional fabrics
3)	Grading – what is Grading Different methods of grading Grading the patterns in various sizes, uses of grading & its importance.	3)	Grading of various patterns in three different sizes with different methods.
4)	Dart manipulation Methods of dart Manipulation – slash & spread method, pivot method. Importance of dart manipulation body defects remedies of dart manipulation.	4)	Dart manipulation into 1) Single dart series 2) Two dart series 3) Multiple Dart series 4) Single lines – Princess & empire 5) Yokes
5)	Pants - Terinology - Categorization of pants of the basis of lengths & fit and their variations.	5)	Addition of fullness through - Conversion & relocation of darts. - Additional fullness.
6)	Knowledge of different types of jackets. Knowledge of different types of coats.	6)	Drafting of adults bodice block and sleeve. Drafting of adults shirt block by adaption of basic body block. Drafting of Gents trouser.
7)	Knowledge of different of sleevesw, collars, cuffs, skirts, tops & blouses.	7)	Drafting of Gents Suit Single breasted / double breasted.
8)	Different types of paper Pattern	8)	Construction of lady' salwar kameez, kalidar kurta, churidar, pyjama Construction of lady's saree blouse. Construction of lady's lehnga choli. Construction of Gents Nehru Kurta
9)	Terms used for Paper Pattern Making in the Fashion Industry.	9)	Construction of party frock Construction of Jump suit. Construction of boys shorts Construction of skirt & tops.

## **List of Materials Required (Tools / Equipments)**

- 1) Wooden Scale
- 2) Measuring Tape
- 3) Ruler (Steel / Wooden)
- 4) Cutting Seizers
- 5) Tailor Square Plastic
- 6) Leg shaper plastic
- 7) Hip Carve Plastic
- 8) Arm Hole French Curve big plastic
- 9) Pattern Punch
- 10) Pattern Notcher
- 11) Pattern Hanging Hook
- 12) Pattern Hanging Stand
- 13) Tailoring Chalk
- 14) Brown Paper
- 15) L-square (Wooden / Plastic)

## **Refernces :**

- 1) Armstrong Joseph Helen, "Pattern making for Fashion design"
- 2) Hill house & Mansfield, "Dress Design Draping & Flat pattern Making." Houghton Miffic Company, 1975.
- 3) Martin M. Shoben "Pattern Cutting Making Up" CBS Publishers, New Delhi.
- 4) Goulbourn Margartha "Introducing Pattern Cutting, grading & Modeling: Bastsford Pub. U.K.
- 5) Pattern Design for Haute Couture, Volume 1.

**(Subject Code – 41040002)**

**Subject Name : Garment Making - 1 st Year**

	Theory		Practical
1)	Tools & equipment used in making, stitching, cutting & finishing.	1)	Introduction & knowledge about tool & equipments used for drafting cutting & stitching.
2)	Machines types used for stitching machine parts, attachments, different machines used for finishing, trimming, button, buttonhole, elastic attaching, fusing, collar & cuff turning, embroidery, Zigzag etc. Lock stitch machine, chain stitch machine over lock machine, double needle lockstitch machine bar tracking machine, flat lock machine	2)	Assembling & dismantling of a hand operated sewing machine.
3)	Care & maintains of machine, regulars clean up, Oiling etc. Types of lubricating oil used maintaince schedule, fees lubricating the machine.	3)	Operating of various components of machine with respect to various operation.
4)	Common defect of sewing machine & its rectification.	4)	Size charts fecteral stitch standards. various stitch types as per international standards class 100, 300, 500, 600
5)	General purpose of stitching machines working of sewing machine hand & electric operated machine components functions.	5)	Various types of stitches in the garment, fusing & pressing of Garment.
6)	Fusing & pressing equipments.	6)	Visit to a garment industry to get the knowledge of machine set up, various types of machines in the industry & submit a report.
7)	Importance of taking accurate body Measurements, locating proper measuring points for children Women & Men.	7)	Construction of baby Zabala types of with to yoke. Construction drafting stitching of baby Zabala. Type 2 with yoke 8 flax.
8)	Sewing thread on embroidery threads their number sizes & uses according to the niddle & Cloth.	8)	Construction of drafting & Stitching of party frock, Frills, A Line Umbrella.

9)	Preparation of fabric shrekage, Straighting ironing.	9)	Construction, drafting & stitching of Jumpsuit.
10)	Placing , marking, cutting & handling of various types of materials.	10)	Construction, drafting & stitching of boys shorts.
11)	Selection of trimmings supporting fabric (Lining, interring) & fastener.	11)	Construction & stitching of a night suit (II year)
12)	Estimating the fabric & accessories on the basic of body measurements.	12)	Construction & stitching of skirt & top.
13)	Knowledge of various fastness press button, hooks & eyes eyelets buckles, button, Button holes Zippers Valero tape.	13)	a) Making samples of basic stitches basting stitch, Back stitch Blanket stitch button hole hemming, slip stitch whipping, Lock Stitch. b) Decorative stitches – lazy dazy chain, stain stitch, tarring bone feather long & shut patch work mirror work cross stitch & Beading French knit. Various seams & sean finisher plan seam, counter hen sean lapped sean, run & fell sean.
		14)	Miner defects in the garments & their remediates.
		15)	Making small samples & preparation of various types of plackets, necklines, pockets sleeve & zipper attachment.

Note :- All practical to be concerned in the fill along with procedures analysis & samples

**Subject Name :- Garment Making ( II<sup>nd</sup> Year )**

	Theory		Practical
1.	Knowledge of various types of skirts, shirts, tops, blouses.	1.	Hooks & eyes, Eyelets buckles button, buttonholes, zippers & Velero tape.
2.	Knowledge of various types of coats, jackets, trousers.	2.	Plackets one Piece & two piece packet opening.
3.	Knowledge of various types of collars, cuffs , necklines sleeves.	3.	Disposal of fullness-pleats knife, box laverted packets tucks, pin shells Gather smoking, shirring, fills & raffle.
4.	Fibers- introduction to textiles fiber, classification & description of various textile fibers (natural, manmade & synthetic) physical & chemical properties for identification use and care.	4.	Design & Stitch any one type of skirt & blouse.
5.	Yarn- types of yarns- simple noveltte & textured yarns.	5.	Design & stitch anyone type to coat.
6.	Weaves – introduction to different types of weaves.	6.	Design & stitch top using cuff, collar & sleeve of your choice.
7.	Dyes- Introduction to dyes classification of dyes as per their application. Natural, Diesel Acidic basic sulpher Indigos of soluble vat, Reactive, repressed, Nephathel as Azoic done oxidation dyes & pigment colours.	7.	identification of fibers by burning test microscope chemical meth. Yarn court, stain removing of various types of stain. Prepare samples & make a project.
8.	Fashion Redding of a garments care labels & costing of garments.	8.	Collect samples of various yarns.
9.	Color fastness, qualities control stain removing of various types of stains.	9.	Colours fastness test to heat sunlight, gas funes, Perspiration, humidity, crocker and ironing an coloured natural fabrics.
10.	Trimming threads elastics, interfacing, narrow fabrics fasterness, belts.	10.	Stitch a women petticoat saree blouse, katori-designes Blouses, Salwar Kameez, Churidar, Patiyala Salwar.



11	Casting a garment casting functions the cost sheet, wholesales pricing cost merchandising.	11	Design & Stitch an evening gown of Off-shoulder using darts & Cup pads.
12	Spreading a & Cutting procedures in a Industry – spreading cutting techniques environmental concerns, bundlings.	12	Design & Stitch T-Shirt for male of Knitted materials.
		13.	Design & Stitch harem pants for a woman.

### **List of Material Required (Tools & Equipments) :**

- 1) Single Needle High Speed
- 2) Buttonhole Machine
- 3) Bartack Machine
- 4) Belt Fixing Machine
- 5) 5 Thread Overlock Machine.
- 6) Blind Stitch Machine
- 7) Fusing Machine
- 8) Vacuum Pressing System

### **References :**

- 1) Mullik Prem Lata, Garment Construction Skill” Kalyani Publishers, New Delhi
- 2) “Complete Guide to Sewing” Reader Digest
- 3) Readers Digest Sewing Book
- 4) Thomas Anna Jacob “ The Art of Swing” USB Publishers, New Delhi.

**Subject Name – History of Fashion – 1<sup>st</sup> Year****(Subject Code – 41040012)**

	Theory		Practical
1)	Origin of clothing – protection, modesty, Adornments.	1)	Collect more information about origin of clothing from internet & make a report.
2)	Ancient Indian Civilization  a) Indus Valley Civilization. b) Mauryan and Sungu period c) Kushion period d) Gandhara period e) Gupta period - Details study of dates, significant development, women's costumes, dresses, jewelry hairstyles, footwear.	2)	Study the Indian Civilization & collect more information from Internet & submit a report.
3)	Medieval Period  1) Mughal period	3)	- “ -
4)	British period	4)	- “ -
5)	Traditional Costumes of India :-  Types of costumes for male & female, significance of traditions & rituals – costumes of Jammu, Kashmir, Punjab, Rajasthan, UP, West Bengal, Assam, Maharashtra, Tamil Nadu.	5)	Traditional Costumes of India and display costumes of India on adamm & give seminar on it.
6)	World costumes  1) Egyptian costumes 2) Greek Costumes 3) Roman period 4) Byzantine period 5) Renaissance Period 6) Victorian period 7) French Revolution 8) 20 <sup>th</sup> Century fashion a) Significant Development periodwise decadewise b) National & international desiners & their speciality. c) Development of fashion Industry and its role.	6)	World Costume

7)	Principles of design, Rhythm, harmony, space, scale, proportion, balance, unity, symmetry, space-value and space in design collage and its types – relief and flat.	7)	Design few contemporary silhouettes based on inspiration drawn from different periods.
8)	Elements of designing – line shape, colour, texture, volume.	8)	Corresponding exercises with rhythm, harmony, balance unity and symmetry to be done on dummy.  Practical exercises on optical illusion.  Making collage with waste materials, flat materials & with fabric.
9)	Introduction to fashion, clothing & fashion, functions of clothing fashion cycle.	9)	Learning to draw figures, drawing straight female figures. Steps involved in drawing figure. Page planning proportions planning, geometric shapes & flash out the figures.
10)	Inspirational sources – Nature yolk and historical costumes, museums, galleries, travel.	10)	Practice of drawing different facial views as front, profile or three quarter, practice of drawing eyes, nose and lips.
11)	Knowledge of pencil shading techniques and shade, colour wheel, Hue, value, chrome, colour schemes, physical effect of colour on our eye.	11)	Practice of sketching hairs, Hands & feet.
12)	Knowledge of various textures, prints and fabrics available in the market.	12)	Practice of various textures & prints.

**Subject Name – History of Fashion – 2<sup>nd</sup> Year****(Subject Code – 41040012)**

	Theory		Practical
1)	Fabric construction, different types of yarns, yarn properties, weaves, stain removal.	1)	Drawing & rendering different designs in various colour scheme.
2)	Different types of printing process, finishing process & effects given to the garment / fabric	2)	Market Survey for various fabrics available in the market, latest trends / colour / silhouette.
3)	Knowledge of children growth, Toddler Children & teenagers.	3)	Practice of sketching different child figures, their hands, feet and face.
4)	Sketching of garments, principles of sketching garments. Knowledge of basic garment shapes, creation of illusion of 3-D effect.	4)	Sketching male figures in various poses, hand, feet etc.
5)	Properties of garments according to various themes such as occasion environments, season, purpose etc.	5)	Practice of drawing garments according to occasion, environment season & purpose etc.
6)	Introduction to the production productivity, work in process, time, study, motion, study, work study, ergonomics	6)	Visit to the well-known garment industry to study the production process.
7)	Production Planning & Control types of production processes, job, batch and mass production, raw material planning & allocation process planning & process sheet methods of production control plant layout & material Handling – concept of plant layout, type of layout & their characteristics, factors affecting plant layout, work station designing.	7)	Analyzing test reports as per given specification of the buyer.
8)	Quality Control – Need for quality control, Quality Assurance, standards for quality control.	8)	Demonstration of basic fabric defects.
9)	Inspection – Types of Inspections, Various methods, role of operation and inspector in inspection.	9)	Demonstration of sewing finishing & packaging defects & care labels – collect wash care labels, sketching & understanding of symbols.
10)	Current export and position of India in the world apparel textile market, organizational structure of export house, buying houses and domestic companies, classification of buyer & buying network in exports.	10)	Trim sourcing – buttons, beads, laces, labels, tags, packaging.

11)	Fashion Merchandising – Study of fashion principles, theories & fashion cycle & terminology, Introduction to Fashion marketing & merchandising principles – retail, wholesale, boutique, designer-wear, culture, prêt-o-porter, haute culture (hi fashion) study of domestic & international market, past, present and future scenarios, fashion evolution, economical, social, environmental & political influence of fashion.	11)	Costing Pricing – Cost price selling price, backward costing.
12)	Sourcing – sourcing for fabrics, trims & accessories, trimming, costing.	12)	Project Report on Market Survey.

### **Books References :**

- 1) Textiles Fiber to Fabric - P Corbman
- 2) Pattern making for Fashion Design by Helen Joseph Armstrong
- 3) Fashion Drawing – the Basic Principles by Anne Allen and Julion Seaman.
- 4) Ancient India Costumes by Roshan Alkazi.
- 5) Indian Costumes by S.N. Dhar.
- 6) World Costume.
- 7) Fashion and Retail Merchandising.

### **Tools & Equipments :**

- 1) Drawing Sheets
- 2) Stadlers
- 3) Poster Colour
- 4) Pencils
- 5) Brush 0. 1, 2, 3, 4 No.
- 6) Dammies
- 7) Scale 15”