

MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATION, MUMBAI

1	Name of Syllabus	Certificate course in Computer Aided Embroidery (410129)																																								
2	Max. Nos of Student	25 Students																																								
3	Duration	6 Month																																								
4	Type	Part Time																																								
5	Nos Of Days / Week	6 days																																								
6	Nos Of Hours /Days	4 hrs.																																								
7	Space Required	1) Workshop = 400 sqfeet 2) Class Room = 200 sqfeet ----- TOTAL = 600 sqfeet																																								
8	Entry Qualification	Any Course Pass of MSBVE in Embroidery																																								
9	Objective Of Syllabus/ introduction	Should be able to Operate the Computer Aided Embroidery Machinery and design various design.																																								
10	Employment Opportunity	Self Employment / May get job in Establishment																																								
11	Teacher’s Qualification	Diploma / Certificate in concern subject.																																								
12	Training System	<div>Training System Per Week</div> <table><tr><td>Theory</td><td>Practical</td><td>Total</td></tr><tr><td>6 hrs</td><td>18 hrs</td><td>24 hrs</td></tr></table>						Theory	Practical	Total	6 hrs	18 hrs	24 hrs																													
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Theory - I - Computer Aided Embroidery

1. Instruction in safety precaution for single needle computer embroidery application in the trade.
2. Introduction & explain of single needle computer accessories.
3. Single needle computer embroidery machine (Tool kit, Bobbin Winder, single embroidery machine manual)
4. Basic stitches of single needle computer embroidery, their applications . Different types and characteristics creative on screen customizing and functions. Pop-up text to explain each icon.
5. How to make different type running stitch/back stitch, stem stitch in single Needle Computer Embroidery Machine Instruction about optional automatic trimmer
6. Computer embroidery machine tool & equipments.
7. Computer embroidery machine, parts and their function.
8. Repeating computer embroidery machine tools & equipments.
9. Different types of fabrics and their characteristics.
10. Application of running stitches, long and short in computer Embroidery.
11. To stitch about Dual Card Drives; allows the mixing of designs easily and quickly using two creative cards at one time function.
12. Sensormatic button holes - stitches
13. Function of built- in machine sensors produces buttonholes in every time.
14. Presser foot position:
15. Extra high to accommodate thicker fabrics.
16. High is standard presser foot position.
17. Medium for daring, hoop.
18. Embroidery, free motion quilting with tension Engaged.
19. Low is perfect for quick pivoting.
20. Down for normal sewing.
21. Electronics needle piercing power:
22. Stitch by attached controlled at any speed with full piercing power at any speed.
23. Sew through multiple layer of heavy denim.
24. Repeating General information about colors, designs ,and lay-outs scheme work ,its kind and use in the computer color lay-outs.
25. Last pattern recall. Automatic Tapering. Embroidery threads and their classification. Related theory. Computer monitor colour work- its kind and uses/application. Computer monitor colour shadow work and chickon work in saree. Sindhi and mirror work in ladies blouse.

Practical - I - Organization and management

1. Study of machine application.
2. Study of machine operating system.
3. Study of safety and precaution .
4. Study of Handling various tools and equipments.
5. Study of how to wind a bobbin. Thread.
6. Study of how to set the machine to embroidery.
7. How to make diff. types of running stitch.
8. Study of diff. types of fabrics.

Practical - II - Application of Computer

1. How to make the diff. design stitch on shawal through computer.
2. How to make the different types of Tunision crochet stitches.
3. Study of two colour mukbir Tunisian stitches.
4. Various design on Computer embroidery machine.
5. To attached various attachment to the embroidery machine.
6. To study Dual Card Drives.
7. Electronic needle piercing power.
8. Various pattern making.
9. Automatic Tempering.

List of tools Equipment

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| 1. Model No. BDMN12-12 Needle multi colour | |
| Embroidery machine | 1 No. |
| 2. Scissor various sizes | 1 set |
| 3. Pinking Scissor | 2 Nos. |
| 4. Audio Visual Equipment room. | 1 |
| 5. O.H.P. | 1 No |
| 6. Computer with design software | 10 nos. |
| 7. Table and chair | 2 each |
| 8. Computer Table | 10 Nos. |
| 9. Chairs | 27 Nos. |
