

**MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATION, MUMBAI - 51**

| 1                        | Name of Course                      | Certificate Course in Flex Printing (406109)  |       |       |            |            |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
|--------------------------|-------------------------------------|---|-------|-------|------------|------------|--|--------------------------|------------|-----------------|-------|-------|------------|------------|--------|-----------|-------------------------------|------|-------|-----|----|---------|----------|-------------------------|------|-------|-----|-----|---|----------|------------------------------------|-------|-------|-----|----|--|--|-------|--|--|-----|-----|
| 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                      | Theory Class Room – 200 sqft Workshop – 200 sqft  |       |       |            |            |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| 8                        | Entry Qualification                 | S.S.C. Passed   |       |       |            |            |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| 9                        | Objective of Syllabus/ introduction | To get knowledge of Flex Printing   |       |       |            |            |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| 10                       | Employment Opportunity              | The trainee will be able to take jobs in related enterprise or with working experience will be in a position to work in his own venture.  |       |       |            |            |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| 11                       | Teacher’s Qualification             | Diploma / Degree in Printing  |       |       |            |            |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| 12                       | Training System                     | <table><tr><th colspan="7">Training System Per Week</th></tr><tr><td>Theory</td><td>Practical</td><td colspan="5">Total</td></tr><tr><td>6 Hours</td><td>18 Hours</td><td colspan="5">24 Hours</td></tr></table>  |       |       |            |            |  | Training System Per Week |            |                 |       |       |            |            | Theory | Practical | Total                         |      |       |     |    | 6 Hours | 18 Hours | 24 Hours                |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| Training System Per Week |                                     |   |       |       |            |            |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| Theory                   | Practical                           | Total   |       |       |            |            |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| 6 Hours                  | 18 Hours                            | 24 Hours  |       |       |            |            |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| 13                       | Exam. System                        | <table><tr><th>Sr. No.</th><th>Paper Code</th><th>Name of Subject</th><th>TH/PR</th><th>Hours</th><th>Max. Marks</th><th>Min. Marks</th></tr><tr><td>1</td><td>40610911</td><td>Introduction of Flex Printing</td><td>TH-I</td><td>3 hrs</td><td>100</td><td>35</td></tr><tr><td>2</td><td>40610921</td><td>Flex Printing Technique</td><td>PR-I</td><td>6 hrs</td><td>200</td><td>100</td></tr><tr><td>3</td><td>40610922</td><td>Machines Operations &amp; Job Printing</td><td>PR-II</td><td>3 hrs</td><td>100</td><td>50</td></tr><tr><td></td><td></td><td>Total</td><td></td><td></td><td>400</td><td>185</td></tr></table> |       |       |            |            |  | Sr. No.                  | Paper Code | Name of Subject | TH/PR | Hours | Max. Marks | Min. Marks | 1      | 40610911  | Introduction of Flex Printing | TH-I | 3 hrs | 100 | 35 | 2       | 40610921 | Flex Printing Technique | PR-I | 6 hrs | 200 | 100 | 3 | 40610922 | Machines Operations & Job Printing | PR-II | 3 hrs | 100 | 50 |  |  | Total |  |  | 400 | 185 |
| Sr. No.                  | Paper Code                          | Name of Subject   | TH/PR | Hours | Max. Marks | Min. Marks |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| 1                        | 40610911                            | Introduction of Flex Printing   | TH-I  | 3 hrs | 100        | 35         |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| 2                        | 40610921                            | Flex Printing Technique   | PR-I  | 6 hrs | 200        | 100        |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
| 3                        | 40610922                            | Machines Operations & Job Printing  | PR-II | 3 hrs | 100        | 50         |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |
|                          |                                     | Total   |       |       | 400        | 185        |  |                          |            |                 |       |       |            |            |        |           |                               |      |       |     |    |         |          |                         |      |       |     |     |   |          |                                    |       |       |     |    |  |  |       |  |  |     |     |

# SYLLABUS

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## **Theory – I**

### **Introduction of Flex Printing**

- 1) What is Printing
- 2) Basic Design and tradition Preparation
- 3) Working with Digital Data.
- 4) Digital Prepress Creation and input
- 5) Digital Prepress Assembly
- 6) Digital Prepress Output
- 7) Inkjet System
- 8) The Business of Printing.
- 9) Introduction of Flex Machine, Equipment of material used for Flex Machine.
- 10) General Care and Maintenance of Machine.

## **Practical – I**

### **Flex Printing Technique**

- 1) Introduction to Desktop Publishing, It's origin
- 2) Components of Desktop Publishing System, the traditional publishing and publishing under PC environment.
- 3) Concept of Publishing, Creating Publishing Page, Computer application in Prepress work, Composing, Scanning colour mixing, image processing etc.
- 4) Use of pagemaker, coreldraw, photoshop, illustrator, Artpro, macsystem
- 5) Introduction of Flex Machine.

## **Practical – II)**

### **Machines Operations & Job Printing**

- 1) Concept of Publishing, Creating Publishing Page, Computer application in Prepress work, Composing, Scanning colour mixing, image processing etc.
- 2) Use of pagemaker, coreldraw, photoshop, illustrator, Artpro, macsystem
- 3) Introduction of Flex Machine.
- 4) Job printing on Flex Machine.
- 5) Handling & care of equipment and materials.

### **List of Machine and Equipments**

HPL x 800, 5100, 9000, mertoshospray and  
value jet which works on the dye submission Technology,  
Flex Printing Machines.

### **List of Reference Books**

- 1) Hand Book of Printing & Packaging – by V.C.
- 2) Printing Technology – Michael Adams
- 3) Hand Book of Print Media – Helmet Kipphan