

1	Name of Syllabus	Certificate Course in Painting (412101)																																								
2	Max. Nos of Student	25 Students																																								
3	Duration	6 Month																																								
4	Type	Part Time																																								
5	Nos Of Days / Week	6 days (24 Hrs / week)																																								
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	5 th																																								
9	Objective Of Syllabus/ introduction	should be able to- 1) Prepare wall surfaces for distempering & painting. 2) Mix paint for wall painting 3) Paint walls and ceiling. 4) Prepare wooden surfaces for varnishing, polishing and painting. 5) Apply putty & primer 6) Varnishing, polish and paint wooden surfaces.																																								
10	Employment Opportunity	Self Employment / May get job in Establishment																																								
11	Teacher’s Qualification	I.T.I.N.C.V.T (PAINTING)																																								
12	Training System	<table><tr><th colspan="7">Training System Per Week</th></tr><tr><td colspan="2">Theory</td><td colspan="2">Practical</td><td colspan="2">Total</td></tr><tr><td colspan="2">6 hrs</td><td colspan="2">18hrs</td><td colspan="2">24hrs</td></tr></table>						Training System Per Week							Theory		Practical		Total		6 hrs		18hrs		24hrs																	
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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>Mini. Marks</th></tr><tr><td>1</td><td>41210111</td><td>Painting Theory</td><td>TH-I</td><td>3 Hrs</td><td>100</td><td>35</td></tr><tr><td>2</td><td>41210121</td><td>Wall painting</td><td>PR-I</td><td>3 Hrs</td><td>100</td><td>50</td></tr><tr><td>3</td><td>41210122</td><td>Wood painting</td><td>PR-II</td><td>6 Hrs</td><td>200</td><td>100</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	Mini. Marks	1	41210111	Painting Theory	TH-I	3 Hrs	100	35	2	41210121	Wall painting	PR-I	3 Hrs	100	50	3	41210122	Wood painting	PR-II	6 Hrs	200	100			TOTAL			400	185
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Theory - I - Painting

1. Health and safety precautions, safe working practices and waste disposal at work place.
2. Painters equipment such as ladder, step scaffolding, trestle, buckets etc., their description & uses.
3. Housekeeping – good practice, quality aspects of paints. Behavioral etiquette.
4. Description, use, care & maintenance of hand tools, brushes of various sizes, diamond glazier, stopping knife, scrapers, pallet knife, chisel knife, shave hook, plumb line, lining tool, rule file etc.
5. Putty: definition, types, uses, method of mixing & different methods of applications.
6. Description of Tools, equipments used for mixing with safety measures.
7. • Paint: definition, classification & uses. Method of selection, application, preparation techniques, mixing of ingredients, various types, their purposes and effect on paints.
8. Purpose of cleaning of wall surfaces and their effects. Processes of cleaning, different methods of cleaning, water
9. proofing, precautions and uses.
10. Building painting by brushes, their defects & remedies. Surface preparation for oil painting of wall, painting faults & their remedies.
11. Introduction of wall painting by roller.
12. Calculation of the amount of paint needed for the jobs and its cost evaluation.
13. Description of Equipment for mixing, wood problems associated with painting of different types of woods.
14. Testing of different types of varnishes, painters equipments: ladder, buckets etc.
15. Painter hand tools brushes, diamond glazier, knives, lining tools etc. Use, care & maintenance.
16. Introduction of Paint, Painter & painting General aspect, Scope of the work importance.
17. Varnishes – various methods of preparation, types of varnishes.
18. Oils, driers, resins, solvents & thinner classification & uses.
19. Wood strainer, classification and Methods of application.
20. Calculation for quantity of paint required, costing & evaluation

Practical – I - Wall Painting

- 1 • Use of protective clothing and equipment and carry out safe working practices.
 - Apply good housekeeping practices, proper handling of materials and waste disposal.
 - Preparing surfaces of wall and ceiling, • cleaning rough surfaces for distempering, practice of in use of nailbrushes, Iron hig, chiseling, rubbing by Emery & Brushes.
 - Putty preparation, Mixing of putty, different process of making putty and use of putty on different surfaces.
 - Health and safety precautions, safe working practices and waste disposal at work place.
 - Painters equipment such as ladder, step scaffolding, trestle, buckets etc., their description & uses.
 - Housekeeping – good practice, quality aspects of paints. Behavioral etiquette.
 - Description, use, care & maintenance of hand tools, brushes of various sizes, diamond glazier, stopping knife, scrapers, pallet knife, chisel knife, shave hook, plumb line, lining tool, rule file etc.

- 2 • Colour blending by mixing various paints and colour making, distempering walls, relief painting and texturing of walls & ceiling.
 - Testing of colour perceptions.
 - Putty: definition, types, uses, method of mixing & different methods of applications.
 - Description of Tools, equipments used for mixing with safety measures.
- 3 • Preparation of desired shades by tinting of water based & solvent based paint with universal tinters.
 - Mixing schemes/computer generated colours.
 - Paint: definition, classification & uses. Method of selection, application, preparation techniques, mixing of ingredients, various types, their purposes and effect on paints.
- 4 • Painting by brushes of walls and ceiling of a building, office building/workshop building inside & outside by water based paint/solvent based paint.
 - Purpose of cleaning of wall surfaces and their effects. Processes of cleaning, different methods of cleaning, water proofing, precautions and uses. Building painting by brushes, their defects & remedies.
- 5 • Painting of walls of residential houses with oil colours.
 - Colouring of doors, windows& fittings.
 - Surface preparation for oil painting of wall, painting faults & their remedies.
 - Introduction of wall painting by roller.
 - Calculation of the amount of paint needed for the jobs and its cost evaluation.

Practical - II - Wood Painting

- Use of protective clothing and equipment and carry out safe working practices.
- Apply good house keeping practices, proper handling of materials and waste disposal.
- Demonstration & Practicals on use of various techniques on wood such as cleaning, rubbing down, knotting, stopping, filling.
- Prepare wood surface.
- Preparing of surfaces on wood for varnishing, polishing & finishing of doors, windows, partitions of rooms etc.
- Putty preparation
- Mixing by different process
- Use of putty on different wooden surfaces
- Finishing, varnishing & polishing of wood furniture eg. Chair, table, almirahs, trays etc., old & new.
- Varnishing of wooden surfaces. Painting of wooden furniture doors, windows etc. by brushes various types.
- Polishing and finishing wooden furniture doors, windows etc by spirit, lacquer, melamine, poly Urethane.

LIST OF TOOLS AND EQUIPMENT (wall Painting)

1. Ford cup No.	4 one set
2. Chequer sheet (for testing capacity)	40 sheets
3. Standard colour shade card IS:5	2 nos.
4. Colourblind test Booklet	4 nos.
5. Mask gloves, goggles, personal safety equipment item	20 set
6. Brushes (size – 2 inch)	20 pcs.
7. Thermometer – 0 to 110° C)	2 nos.
8. Beakers/Mug – 500 ml.	20 nos.
9. Measuring cylinder (100 ml.)	2 nos.
10. Spatula	20 nos.
11. Nail Brush	05 nos.
12. Iron Hog	05 nos.

13. Emery paper (320 & 400)	10 each
14. Empty 1 litre Containers	40 pcs.
15. Cloth (Rag) as required	
16. Brush - distemper – 25 mm	10 pcs.
17. Brush – Dusting	5 pcs.
18. Brush – white wash	10 pcs.
19. Stopping knife	10 pcs.
20. Platte knife	10 pcs.
21. Chisel knife	10 pcs.
22. Shave hook	20 pcs.
23. Knife put glazier	10 pcs.
24. Ladder	1 no.
25. Scaffolder	1 no.
26. Trestle painter with stools	20 nos.
27. Buckets (20 litre.) 5 nos.	
28. Gun spray with gravity feed cup with accessories with portable Air Compressor	2 nos.
29. Airless Spray Gun with accessories	2 nos.
10	
30. Pressure feed container 20 litre. capacity	2 nos.
31. Spray Booth 2 nos.	
MATERIALS	
1. Wall putty	4 kg.
2. Wall Primer	4 kg.
3. P.U. Coatings	2 kg.
4. Melamine coatings	2 kg.
5. Exterior Enamel white-	2 2 litre.
6. Interior Enamel white-	2 2 litre.
7. Cement primer water based	2 kg. each
8. Cement primer solvent based	2 kg. Each
9. Thinner/Turpentine	2 litre. each
10. Wood primer	4 kg.
11. Acrylic Emulsion paint – white	4 kg.
12. Oil bound/Acrylic distemper – white	4 kg.
13. Water based stainers (colour concentrate) (Red, yellow blue Green)	200 ml. Each
14. Solvent based stainer (colour concentrate) (Red, yellow, blue Green)	200 ml. Each
15. M.T.O. /Turpentine	10 litres.

LIST OF TOOLS AND EQUIPMENT (wood Painting)

1. Brush (varnish) 25 mm oval bevelled	8 nos.
2. Brush round 9 mm. Paint or varnish	8 nos.
3. Brush Hog Hair pitch	8 nos.
4. Brush flat 12 mm	8 nos.
5. Brush Dusting	8 nos.
6. Wooden panels (2'x4')	4 nos.
7. Working bench (240 cm x 120 cm x 75 cm)	4 nos.
8. Ford Cup No.4	4 nos.
9. Physical Balance with weight box	2 nos.
10. Weight per litre cup	4 nos.
11. Porcelain Basin 450	12 nos.
12. Hand gloves	20 pairs
13. Steel lockers with 8 drawers	4 nos.

14. Buckets (15 ltr. Capacity)	5 nos.
15. Blow lamp	8 nos.
16. Painter hand tools	20 sets
Spray Unit:	
17. Gun spray with gravity feed cup with accessories with portable Air Compressor	2 nos.
18. Airless Spray Gun with accessories	2 nos.
19. Pressure feed container 20 ltr. capacity	2 nos.
20. Spray Booth	1 no.

MATERIALS

1. Putty	4 kg.
2. Primer (wood)	4 kg.
3. Varnishes - different types (MM, PU)	2 ltr. Each
4. Polish (wood)	10 ltr.
5. Sand papers – different types	As required
6. Pigments	2 kg.
7. Thinner (Turpentine)	5 ltr.
