

MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATION, MUMBAI

1	Name of Syllabus	C. C. in Metal craft (412209)																																																													
2	Max.Nos of Student	25 Students																																																													
3	Duration	1 year																																																													
4	Type	Full Time																																																													
5	Nos Of Days / Week	6 Days																																																													
6	Nos Of Hours /Days	7 hrs.																																																													
7	Space Required	1) Practical Lab = 1000 sq. feet 2) <u>Class Room = 200 sq. feet</u> TOTAL = 1200 sq. feet																																																													
8	Entry Qualification	S.S.C.																																																													
9	Objective Of Syllabus/ introduction	This course provides systematic training both in traditional and contemporary processes and design concepts. Students can design and execute objects of projects																																																													
10	Employment Opportunity	As it is practice based and design oriented course, can in the field of wire work, etching, perforating, turning and set up his own small scale unit.																																																													
11	Teacher's Qualification	Diploma in Art Education with specialization																																																													
12	Training System	<table><tr><th colspan="7">Training System Per Week</th></tr><tr><th>Theory</th><th>Practical</th><th>Total</th><th colspan="4"></th></tr><tr><td>12hrs</td><td>30hrs</td><td>42hrs</td><td colspan="4"></td></tr></table>							Training System Per Week							Theory	Practical	Total					12hrs	30hrs	42hrs																																						
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Theory - I - Drawing and design

Analytical study of natural and other objects as line, form texture and color
Transformation of objects into variety of simple, complex planes, tones and organization.
Study of design concepts with their functional implications

Study of basic forms and functions in nature and the environment
Study of human, animal and birds forms etc
Exposure of 2D and 3-D forms through observation

Practical - I - Drawing and design

Analytical study of natural and other objects as line, form texture and color
Transformation of objects into variety of simple, complex planes, tones and organization.
Study of design concepts with their functional implications

Study of basic forms and functions in nature and the environment
Study of human, animal and birds forms etc
Exposure of 2D and 3-D forms through observation

Theory - II - Metal craft Materials and Design

Metal- general properties and uses
Tools and equipments, acids used in metal work
methods and processes such as joinery, etching, perforating, annealing, enameling, polishing, finishing etc, designing problems involved
Principles of design
Basic consideration of interior and furniture aesthetically with comfort and low cost

Various design problems
Metals and alloys
General properties and
Engraving tools, equipments and processes
Acids and other solutions for coloring and finishing used in metal work
Enamelling tools equipment processes
Enamel color –firing treatment techniques
Polishing and finishing methods

Various design problems, wood work technology- polishing and finishing methods,
material, tool and equipment used with their standard specification
Cost estimation

Practical - II - Design visualization

Evolving 2- D and 3- D forms by manipulating and accidental methods and organization of designs and designs in view of scope and limitations of techniques and medium-material and color rendering
Visualization of design concepts for simple objects of beauty and utility

Evolving 3- D forms and their organizations
Exploring vivid possibilities of designs in 3- D and their applicability to express the design concepts based on objects of aesthetic interest.

Theory - III - History of Western Art

Pre-historic Art

Paintings on the cave walls

Neolithic Art

Carving in low relief-menhires, passage grave.

Ceramics- Susa ware, Samarra ware

Ancient Egypt

Old kingdom

Pyramids with carved and painted scenes

Pyramids of Giza- paintings sculpture

Middle and New kingdom-temples paintings sculpture

Paintings – Tomb painting- women musicians

Mesopotamia including Persia

Summer- samaria ware, ziggurat, golden harp with bull head, goat stand bronze head of king sargoan

Babylon stele of king hammurabi with first law-code

Persia- ruins of persepolis – stairway to the Royal audience hall. Bull capital, luritan bronzes

Greece-geometric period, votive figures, block type and spread type

Archaic period Classical period Hellenistic period – sculpture, painting

Roman Art-sculpture architecture, paintings

Gothic-cathedrals- carving on columns, stained glass windows

Various Isms

Practical - III - Design Execution

Practical in exploring possibilities of vivid textural effects, in shaping forms, joinery, wirework etc

Study of low relief, engraving line, form, letters and monograms and enameling processes

Using one or combined processes to realize the visualized designs

Practical in low and high relief, study of representative drawing concepts

Study of representative and derived forms and their organizations in relief

Realization of visualized design concepts

Practical in engraving monograms
