

L_All_Vocational_Ed_Applied_Arts

Sector: Applied Arts

Sr. No	Specialisation	Page No.
1	Fashion Design: level 1 - 7	02
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VOCATIONAL EDUCATIONAL QUALIFICATION FRAMEWORK
(Sector- B. Voc- Specialization -Fashion Design)
NVEQF/AA/FD

S.No.	Certificate Level	Vocational Hours
1.	Level-I	200 hrs
2.	Level-II	250 hrs
3.	Level-III	350 hrs
4.	Level-IV	350 hrs
5.	Level-V	500 hrs
6.	Level-VI	550 hrs
7.	Level-VII	750 hrs

Certificate Level- I

Theory & Practice

Textile Science:

- Introduction to Textile fibres
- Classification of fibres - Natural fibres - cotton, silk, wool, linen, jute
- Manmade & synthetic fibres - Polyester, Acrylic, Lycra, Viscose
- To understand theory related to its origin, properties and uses
- To collect samples and create a journal/portfolio

Creative Expression

A. Illustration:

- Sketch the figures from magazines or references
- Proportions
- Geometric body shapes
- The moving figure

History and Cultural Context

- Collect the traditional textile pictures of the following States -
- West - Maharashtra, Gujarat including Kutch, Goa Rajasthan From Point of View - fibre, colours used, motifs
- Traditional Costumes of above States worn by women & men; woven, printed, painted, embroidered and dyed textiles

Aesthetic Value

- Colour Theory, Painting Colour Wheels

Connection Interactions & Applications

Ornamentation:

- Stencil Printing
- Spray Painting

- Drawing

Project Internship

- Collection of pictures of costumes of theatre (drama and films) from the media

Life Skill Education

Common personal values

- Accountability
- Commitment
- Communication
- Co-operation
- Hard work
- Quality of work
- Team work
- Timeliness
- Developing positive attitudes
- Environmental/sustainability issues related to the fashion world
- Expression through role plays
- Project work in groups related to styling/dressing

Certificate Level- II

Theory & Practice

Textile Science: Introduction to yarns

- Classification of yarn types
- Introduction to Fabrics
- Classification of fabrics - woven, knitted, knotted, non-wovens, etc.
- To understand theory related to their structure and properties
- To collect samples and create a journal/portfolio
-

History and Cultural Context

- Collect traditional textile pictures of the following States :
- South - Kerala, Karnataka, Andhra Pradesh, Tamil Nadu
- Mention fibre content, colours used, motifs
- Collect pictures of traditional costumes of the above States worn by men & women

Aesthetic Value

Elements of Design :

1) Line 2) Shape 3) Value 4) Colour 5) Texture

- **Line Types :**

Psychological association, visual effects, structural use, decorative use

Collect pictures for various lines

The effect of line in dress \

- **Types of Shapes:**

Visual effects of shape, the shape wheel

Space silhouette - basic fashion silhouette

Historical changes in silhouette

a) Visual b) tactile c) audible

Collect pictures related to the above element

- **Texture :**

Categories of Texture:

a) Rough/Matt

b) Rough/Glossy

c) Smooth/Matt

d) Smooth/Glossy

Texture Wheel

- **Value & Colour :**

Hue, Value, Chroma, the Value scale, the Value key, Visual effects of Value

Characteristics & usage of colour

Colour Temperatures, Naming Colour

Studying of fashion styles, currently in the market - Market research of fashion for design process

Connection Interactions & Applications Ornamentation:

- Strip Weaving (basic weaves)
- Braiding

Project Internship

- Analysis of Indian Tribal paintings - Collection of pictures

Life Skill Education

Fashion Communication

- Art of Speaking :
- Collect newspaper clippings, articles related to fashion, magazine articles
- Defining Communication
- (Each student has to collect 15 such articles)
- Channels of Communication
- (Each one is expected to evaluate)
- Tips for Effective Communication
- (Use of telephone, radio, TV, newsletter, use of mail, news or magazine articles, use of newspaper columns)
- Interview Skills

Certificate Level- III

Theory & Practice

Textile Science :

- Preparatory Processes -
- Desizing)
- Bleaching) Chemical
- Scouring)
- Mercerization)
- Calendaring]
- Stentering] Physical
- Singeing]
- Recent developments and hazards of processes
- Some more details of fabric studies
- Sourcing samples from the textile industry and fabric retail/wholesale markets for gray fabric and processed fabrics

Creative Expression

A. Illustration :

- Pencil Techniques & Shading
- Stylization of croquis
- Textiles & Patterns : shiny surfaces, sheers, brocades & sequins, patterns & prints

B. Fundamentals :

- Collars - Chinese, Polo/Rolling, Peter Pan
- Pockets - Side pocket, Pouch

Basic block 1/2 scale

History and Cultural Context

- Collect traditional textile pictures of the following States :
- North - Punjab & Chandigarh, Uttar Pradesh, Utranchal, Haryana, Delhi, Himachal Pradesh, Jammu, Kashmir
- Mention fibre content, colours used, motifs
- Collect pictures of traditional costumes of the above States worn by men & women

Aesthetic Value

Principles of Design

- **Creative Design Process** - Theme Board, Mood Board, Fashion Forecast
- **Consumer Study** - Market Research
Styles, silhouettes, colours, etc.

Connection Interactions & Applications

Ornamentation :

- Knitting (basic stitches)
- Crochet (basic stitches)
- Frame loom weaving
- Card weaving

Project Internship

Accessory Design: - belt, head accessories

Life Skill Education

Creative Writing for Fashion

- Art of Writing - Writing tips
- Collect articles from newspapers/magazines
- Underline the terms used related to fashion
- Write a small articles of 300 words on given themes
- Bio-data writing
- (Fashion - apparel, shoes, jewelry, fashion designers)
- Civic sense and love for nature, timeliness
- Evaluation of the project (related to styling & dressing)
- Suitability of dress for a figure e.g. tall/short, fat/thin

Certificate Level- IV

Theory & Practice

Textile Science :

Revision of Preparatory processes :

Dyeing -

- Mechanism of Dyeing
- Classification of Dyes
- Stages of Dyeing
- Recent Developments
- Challenges in Dyeing
- Colour fastness

Printing -

- Styles of Printing
- Techniques /Methods of Printing
- Novel methods of Printing
- Challenges in Printing
- Recent Developments
- sourcing samples from mills and wholesale and retail markets for the above
- Finishes -
- functional and aesthetic, chemical and physical, durable, semi and permanent.

Creative Expression

A. Illustration :

- Checks & stripes, lace, knitwear, fur, herringbone & tweed

B. Fundamentals :

- Pockets - Front pant, Side pant,
- Gathers, Pleats, Yoke

History and Cultural Context

- Collect traditional textile pictures of the following States :
- East - Assam, Nagaland, Meghalaya, West Bengal, Orissa, Arunachal Pradesh
- Collect pictures of traditional costumes of the above States worn by men & women

Aesthetic Value

Fashion Marketing :

- Fashion cycle, Product life + cycle, Product packaging
- 4 P's - Product, Price, Promotion, Place
- Studying cases based on the above
- Practical market exposure
- Sale of products in exhibitions, etc. Applying principles of Marketing and Visual Merchandising

Connection Interactions & Applications

Styling & fabric studies :

- Working with fabrics -
- Learning about handloom/power loom/khadi
- Experiments in fashion styling based on roles

Project Internship**Accessory Design**

- bags & footwear

Life Skill Education

- Visit 10 export houses/processing unit studios
- Collect the best practices used in the unit
- (related to fibre, fabric processing, protecting workers, more secure employment, respect workers freedom of association, reducing energy, water, toxic chemical use, issue of child labour)
- Collect information from Apparel Industry about re-use, re-cycling and zero waste
- Reuse of goods
- Repair and conditioning of goods
- Project - Promotion of garment product/ any fashion item - advertisement, photograph
- Publicity through consumer magazines
- Each student must be able to write about or illustrate fashion in a concise and exciting manner, communicate ideas in a meaningful way and successfully relate to all segments of the industry

Certificate Level- V

Theory & Practice

Textile Science:

- Experiments on preparatory processes such as bleaching, etc.
- Dyeing samples/large length fabrics using various classes of dyes. Analysing and evaluation of the role of various components in dye recipe.
- Colour fastness testing - washing, crocking preparation, etc.
- Printing experiments using blocks, screens, spray/brushes, etc. with dye paste and pigments.
- Novelty effects through dyeing, e.g.
- Tie & dye;
- Batik
- Novelty effects through printing using specialty chemicals, attachments in pigment printing, etc.
- Combining techniques of dyeing & printing.

Creative Expression

A. Illustration :

- Drawing croquis of men Drawing croquis of children - toddlers, children & teenagers

B. Fundamentals :

- Collars - Shawl, Reversible
- Pocket - Welt Pocket

C. Pattern Making & Garment Construction

- Kids garments, child basic block & sleeves, baby frocks with sleeve & yoke, bibs, panties, bags, basic pyjama

History and Cultural Context

- Collect pictures of traditional embroideries of India of various States :
- Central - Madhya Pradesh, Chattisgarh, Bihar
- (Information regarding base fabric, threads used for embroidery, basic motifs, stitches)

Aesthetic Value

- Quality standards in brand
- Brand and designer case studies
- Practical market exposure through sale - applying principles of Visual Merchandising & Marketing

Connection Interactions & Applications

- Styling and Jewelry:
- Personal Grooming
- Make Up
- Macrame jewelry, paper jewelry

Computer

Windows :

- Historical Evaluation of windows (till XP)
- Functions of Mouse
- Choosing a Desktop Theme
- Selecting Wallpaper

- Using Window Explorer
- Managing Files and Folders
- Painting Pictures
- Using Notepad
- **Word :**
 - Introduction to Word Processor
 - Uses of Word
 - Document Concept (Creating, Saving, Opening , Closing Document)
 - Formatting Document (Bold, Italic, Underline, Justification, Fonts, Colors of Fonts, Format Painter)
 - Three Methods of Copy, Cut & Paste
 - Working with Margins and Page Setup
 - Inserting and Formatting Clipart and WordArt
 - Tables
 - Uses of Drawing Toolbar
 - Columns
 - Go to, Find & Replace
 - Header & Footers
 - Printing Procedure
 - AutoCorrect and AutoText
 - Spell Check & Thesaurus
 - Adding a Chart to the Report
 - Mail Merging
- **PowerPoint :**
 - What is Presentation? Explain its Need.
 - Uses of PowerPoint
 - Making Presentation
 - Different Types of Slide layouts
 - Slide View, Slide Sorter View & Slide Show Buttons
 - Setup Show
 - Applying Design Templates and Backgrounds
 - Transition & Custom Animation Effects
 - Recording Voice in Presentation
 - Electronic
- **Internet :**
 - What is Internet ? and its Advantage and Disadvantages
 - Minimum Hardware and Software Requirement for internet
 - Connection
 - Role of Modem in Internet
 - Websites & ISPN
 - Browsing and Surfing
 - Downloading Pictures and Text
 - E-mailing
 - Creating Accounts, Attachments and Changing Passwords
 - Chatting

Project Internship

Market Survey - details as below:

- Internship - Market Survey at retail outlets
- To be presented as a Project

Life Skill Education

Team building & Team Work

- Group discussion for the fashion profession
- Team goals
- Skills needed for teamwork - listening, questioning, persuading, respecting, helping, sharing, participating, communicating
- Characteristics of Effective Teams

Project - Group assignment - 4 - 5 in a group

- 1) Promotion of a product
- 2) Marketing strategy
- 3) Promotion of a Fashion Designer

Ethnic wear, Western outfits

Evaluation of assignment by discussion

Etiquette & Manners

Certificate Level- VI

Theory & Practice

Textile Science:

Large samples plain dyeing

Thematic product development for Mock Show - garments and accessories

Experimenting with various aesthetic and functional finishes

Documenting dyeing and printing units, (at least one) reporting with samples and pictures

Creative Expression

A. Illustrations : advanced patterns

- 2 women's, 1 man's and 1 kid's collection for Portfolio

B. Fundamentals :

- Collars - Shirt, Danton

C. Pattern Making & Garment Construction :

- Ladies Wear - adult basic block & sleeve, basic skirt, trouser
- Displacements, concealments, dart manipulation
- Salwar, Kurta, Churidar

D. Draping :

- Upper & lower basic blocks, darts & princess cuts

History and Cultural Context

Indian Textiles and Costumes :

Samples to be made - (6 samples)

- Basic embroidery stitches
- Embroidery samples of South & East - Kasuti, Kantha, Manipuri, Pipli
- Embroideries of West and North - Kutch Kathiawar (applique, mirror, chain, beadwork) Chamba, Kashida, Chikankari, Zardozi, Phulkkari
- Fashion Show for mode of wearing sarees + upper & lower garments for men & women
- Collect samples of textiles of various States in India (group project)

Aesthetic Value

- Craft documentation of various Indian crafts thru visits
- Visual Merchandising - practical execution in stores
- Fashion Photography
- Fashion Make-up
- Global cultural Analysis
- Research Methodology Basics

Connection Interactions & Applications

Styling, Ornamentation, Branding:

- Fabric Ornamentation
- Personal Grooming
- Photography
- Branding of own product

Computer

CorelDraw :

- About CorelDraw

- Using the Menus, Standard Toolbar, Property bar and Dialog Boxes
- Drawing Rectangle, Ellipses, Polygons, Stars, Spirals and Graph paper
- Drawing Lines of All Shapes and Sizes
- Creating and Manipulating Text
- Selecting and Transforming Objects
- Shaping Objects
- Filling and Outlining Objects
- Viewing, Zooming and Ordering
- Combining, Breaking Apart, Grouping, Ungrouping, Separating and Converting to Curves
- Scanning
- Weld, Intersection and Trim
- Aligning, Copying, Pasting and Cloning
- Blending and Contouring
- Lens, Perspective and Powerclip
- Fitting Text to a Path
- Color Adjustment and Bitmap Effects
- Page Setup and Printing
- Uses of CorelDraw in Textile and Fashion Designing

- **Photoshop :**

- About Photoshop
- Using Toolbox, Palettes and Context Menus
- Creating, Operating and Closing Files
- Changing Canvas Size, Color Modes and Resolution
- Understanding and Working with Layers
- Printing Your Result
- Selecting Areas
- Picking and Selecting Colors
- Painting and Drawing
- Creating Text
- Resizing and Reshaping Images
- Manipulating Focus with Blur, Sharpen and Smudge
- Adjusting tone with Dodge, Burn and Sponge
- Cloning and Pattern Creation with the Rubber Stamp
- Creating Special image effect
-

Project Internship

- Project at the venue of internship
- Internship in Craft Cluster
- Documentation

Life Skill Education

- Product Development Project
- Skills - Time Management, Creativity, Innovation
- Product - Purpose of the product, unique features

- Market Research, Internship
- Project presentation - min. 1 month's duration
 - Indian Fashion Designers
 - International Fashion Designers
 - Costume changes in western dress
 - Fashion cycles

Certificate Level- VII

Theory & Practice

Textile Science :

- Applying knowledge of design, development and thus creating collection of garments through techniques and printing for the final fashion show
- Applying principles of quality of production in apparel production of the above
- Documenting aspects of apparel production, as existing in the garment industry
- report with pictures and suitable samples

Apparel Manufacturing :

- Costing the Product
- Fabrics, trimmings, production labour, transportation, distribution, wholesale price, materials procurement
- Manufacturing Process
- Production Pattern
- Grading & Marking the Pattern
- Cutting the garment
- Assembling the garment
- Finishing the garment
- Labeling the garment
- Ready-to-wear (RTW) - This refers to clothing produced in factories to standardized measurements
- Subject - Merchandising Marketing
- Fashion Journalism
- Media Management and Public Relations

Creative Expression

A. Illustrations of advanced patterns:

Fashion show collection as Portfolio

B. Fundamentals :

Sleeves - raglan, kimono, dolman, puff, leg-o-mutton, etc.

C. Advanced Pattern Making & Garment Construction :

Ladies Wear - Indian formal wear, Western formal wear

D. Advanced Draping :

- Patterns (at least 6)
- The Materials of Fashion Accessories -
- The importance of accessories to the fashion industry
- The functional & decorative importance of accessories to the wearer
 - Footwear
 - Jewellery
 - Handbags
 - Belts
 - Watches
 - Scarves
 - Hair ornaments

Trimmings:

- Decorative Trimmings - Fabric trims
- Narrow strips - lace edging, bands of velvet & ribbons, piping
- Braid, applique, lace, embroidery,
- Beading, sequins, rhinestones, buttons
- Belts
- Functional - thread, interfacing, elastic, zippers
- Fashion Shows

History and Cultural Context

History of fashion in India & abroad - project illustration of various eras - different centuries
Aesthetic Value

Fashion Show collection using -

- a) Studied craft
- b) Earlier research of design process
 - Fashion Styling and Grooming
 - Fashion Portfolio
 - Fashion Choreography
 - Industry Research Project

Connection Interactions & Applications

Ornamentation and Styling :

- Fabric Ornamentation
- Personal Grooming
- Launch of own product in the market

Computer

Computer Aided designing - garments, fashion illustration, drafting and pattern making & accessories through Photoshop, Coreldraw and design packages

Project Internship

- Project at the venue of internship
- Internship in the Industry
- Documentation

Life Skill Education

- Fashion Styling and Fashion Photography

VOCATIONAL EDUCATIONAL QUALIFICATION FRAMEWORK
(Sector- B. Voc- Specialization - Interior Design)
NVEQF/AA/ID

S.No.	Certificate Level	Vocational Hours
1.	Level-I	200 hrs
2.	Level-II	250 hrs
3.	Level-III	350 hrs
4.	Level-IV	350 hrs
5.	Level-V	500 hrs
6.	Level-VI	550 hrs
7.	Level-VII	750 hrs

Certificate Level- I

- Introduction to the Subject - Understanding the subject through the History, and theory of Design.
- Arts & Crafts – To improve Aesthetic sense.
- Drawing & Sketching – Free hand drawing skills to improve memories and power of observation.
- Geometric Drawing – Basic 3-D through manual drawing and drafting.
- Workshop Level – Exposure to hand skills, object making, materials etc.

Certificate Level- II

- Concept of Space – Introduction.
- Concept of Scale – Introduction.
- CAD – 2D/3D.
- Anthropometry - Sense of human Scale.
- Art and Graphics - Colors and Materials – 2D.
- Drawing and Sketching – Objects and Spaces.
- Understanding of Maps – Field Study.
- Technical Drawings – Field Study.
- Materials – Natural & Artificial (Field Study)

Certificate Level- III

- Basic Design – Introduction. Manual Drawings. (Plans, Elevations, Sections)
- Basic Services – Introduction.
- Arts and Graphics – Advanced, Print Making, 3-D drawings.
- Materials and Finishes – Uses.
- Theory of Creativity and Theory of Design.
- Construction Process – Introduction.

Certificate Level- IV

- Basic Design – Interior Design.
- Furniture Design – Introduction, History.
- Systems and Services – Introduction.
- Arts & Graphics – 3-D, Sculpture.
- Materials and Finishes – Advanced.
- Construction Process – Various activities.
- Project Management – Introduction.
- Sustainability, Environmental Awareness.

Following are some of the essential skills to be imparted as part of the Program through off Campus environment.

SKILL DEVELOPMENT – EXTERNAL PROGRAMME.

- (A) CAD Drawing – 2 D & 3 D.
- (B) Animation and Graphics.
- (C) Project Management (Site Supervision and Execution).
- (D) Building Component Manufactures.

- | | |
|--------------------------|-----------------------|
| D.I. Furniture | D.V. Ceiling Systems. |
| D.II. Doors and Windows. | D.IV. Flooring. |
| D.III. Storage System. | D.VII. Glass. |
| D.IV. Modular Kitchens . | D.VIII. Hardware. |

- (E) Soft Furnishing (Window covering, Floor Covering)
- (F) Paints & Finishes (Textured coatings, Wall paper)
- (G) Metal Fabrication.
- (H) Stone Industry.
- (I) Building Automation.
- (J) Green Building Technologies.
- (K) Accessories.

Certificate Level- V

- Design problem limited scale (single function)
- Presentation and communication skills using latest software.
- Furniture design – traditional, European as well contemporary.
- Traditional arts & crafts – world.
- Systems & services – advanced.
- Construction process and project management.
- Materials and finishes advanced.
- Sustainability, environmental awareness and climatic factors and their variations.

Certificate Level- VI

- Design problem -multiactivity
- Specifications, estimating, costing & budgeting.
- Project management applications (time management/material management, labour management, cash flow)
- Advanced materials and conversion applications.
- Building and interior components.
- Applied art programme, creation of end product/furniture/building component visual merchandising.

Certificate Level-VII

- Advanced design programme.
- Individual design programme
- Legal/professional practice contract document agreements.

Elective

- Lighting/acoustics/furniture
- Green building technologies/accessories.

VOCATIONAL EDUCATIONAL QUALIFICATION FRAMEWORK
(Sector: Applied Arts- Specialization: Jewelry Design)

NVEQF/AA/JD

S.No.	Certificate Level	Vocational Hours
1.	Level-I	200 hrs
2.	Level-II	250 hrs
3.	Level-III	350 hrs
4.	Level-IV	350 hrs
5.	Level-V	500 hrs
6.	Level-VI	550 hrs
7.	Level-VII	750 hrs

Certificate Level-I

Theory and Practice

Jewellery Terminology - National and International

- Information Collection and Documentation
 - old books
 - local jeweler
 - jewellery catalogs
 - internet

- Document in word format

Creative Expression

Form drawing using different medium

- Draw lines in continuous manner
 - straight
 - wave
 - inverted C, U, S and W
- Drawing of basic shapes - round, square, rectangle, triangle, sphere, dome, cube, cuboid, cylinder, cone
- Identifying and drawing of objects with lines
- Collection of shapes
- fabric prints/weave
- wooden/stone carvings

History and Cultural Context

Study of Art I

- Pre historic art
 - cave paintings and signs
- Civilizations and Periods
 - fashion - garments, jewellery , architect - buildings, interiors - paintings, furniture, utensils
 - from Indus valley, African, Egyptian, Greek, Roman, Chinese and Japanese
 - Designing piece of jewellery inspired from any art

Aesthetic Value

Introduction to Orthographic and Isometric Views

- Basic
- Drawing and understanding of basic shapes sphere, dome, cube, cuboid, cylinder, cone
- Overlapping of shapes

Connection interactions and Applications

Basic computer - Word, Excel, PowerPoint Presentation, Internet

- **WORD**

- about word
- need
- uses
- understanding of tools used
- writing and editing
- bold font, small font, underlining font
- saving and naming of document

- **Excel**

- about excel
- need
- understanding of tools used
- making table
- calculation
- highlighting the columns
- bold font, small font, underlining font
- saving and naming of document

- **Powerpoint**

- about presentation
- need
- uses
- understanding of tools used
- making presentation
- types of slide layouts
- setup show
- applying design templates and backgrounds
- transition and custom animation effects
- recording voice in presentation

- **Internet**

- about internet
- advantage and disadvantages
- minimum hardware and software requirement
- connection
- role of modem
- websites and ISPN
- browsing and surfing
- downloading pictures and text
- e-mailing
- creating accounts, attachments and changing password
- chatting

Project

Introduction to Manufacturing

- Introduction to different tools and its uses
- Safety at workshop
- Basic manufacturing technique with metal
 - cutting
 - sawing
 - filing
 - drilling
- Finishing and Polishing
 - Pickling
 - buffing
- Manufacturing jewellery without soldering

Life-skills education

Common personal values

- accountability
- commitment
- communication
- co-operation
- hard work
- quality of work
- team work
- timeliness
- environmental/sustainability issues related to jewellery world
- expression through role plays

Certificate Level- II

Theory and Practice

Collection of artificial jewellery samples

- Information Collection and Documentation
 - junk jewellery
 - beads
 - synthetic stones
- Document in word format

Creative Expression

Basic rendering

- Understanding the light source
 - basic shapes
 - overlapping of shapes
- Rendering
 - metal
 - gemstones all shapes
 - proportions
 - faceted
 - cabochons
- Introduction to stone settings
- Shadow of piece

History and Cultural Context

Study of Art II

- Civilizations and periods
 - fashion - garments, jewellery , architect - buildings, interiors - paintings, furniture, utensils from
- Indian art history - Mauryan, Gandhar, Mughal periods - Art moments - Renaissance, Baroque, Art Nouveau, Art Deco -Modern art
- Designing assignment based on above

Aesthetic Value

Introduction to Perspective

- Basic
- How to see in everyday life
- Vanishing points
- Eye level or horizon level/line
- Drawing and understanding of cube from different angles
- One point and two point perspective
- Drawing and understanding of circle, cylinders, cones
- Understanding of shadow

Connection interactions and Applications

Advance computer - Photoshop

- about photoshop
- need
- uses
- understanding of tools palettes and context menu
- changing canvas size, color modes and resolution
- understanding and working with layers
- printing your result
- selecting areas
- picking and selecting colors
- painting and drawing
- creating text
- resizing and reshaping images
- manipulating focus with blur, sharpen and smudge
- adjusting tone with dodge, burn and sponge
- cloning and pattern creation with the rubber stamp
- creating special image effect

Project

Basic Manufacturing

- Technique with metal
- sawing
- making small pendent using method positive and negative
- doming
- making earrings
- making small pendent sets (pendent with earrings)
- stamping with die
- sheet making in different thickness
- used for all jewellery
- wire drawing
- making different chains
- tube drawing
- making bangles
- making earrings - hoops
- making hollow chains
- Enhancing look by applying on the above pieces
- texturing
- acid etching
- enamelling - synthetic/cold
- Solder
- forms of solder alloy
- types of solder and types
- beginning soldering techniques
- precautions during soldering
- Finishing and Polishing

- pickling
- buffing
- ultrasonic cleaning

Life-skills education

Communication

- Art of Speaking
- Defining Communication
 - channels of communication
 - tips for effective communication
- Collect newspaper clippings and articles related to jewellery through newspaper, magazines, internet

Certificate Level-III

Theory and Practice

Techniques of jewellery making I

- Information Collection and Documentation
 - old books
 - local jeweler
 - jewellery catalogs
 - internet
 - jewellery pictures - scrap book
- Document in word format

Creative Expression

Principles of Design

- Line
- Repetition
- Rotation
- Mirroring
- Graduation
- Positive and Negative
- Center Point

History and Cultural Context

Study of Jewellery History - World

- Costume jewellery study
 - from civilization Indus valley, African, Egyptian, Greek, Roman, Chinese and Japanese
- materials available
- designs - occasion based, symbolical
- Precious jewellery study
 - from period Renaissance, Baroque, Art Nouveau, Art Deco
- materials available
- designs - occasion based, symbolical,
- trading
- special craftsmanship

Aesthetic Value

Designing with Orthographic and Perspective I

- Wedding bands in metal
- Bypass rings
- Religious pendants - cross, aum
- Plain bracelets using metal

Connection interactions and Applications

Introduction to Design on computer - Coral draw

- about corel draw

- need
- uses
- understanding of tools used
- creating and manipulating text
- selecting and transforming objects
- shaping objects
- filling and fuling objects
 - viewing, zooming and ordering
 - combining/grouping, breaking apart/separating, ungrouping
 - converting to curves
 - scanning
 - weld, intersection and trim
 - aligning, copying, pasting and cloning
 - blending and contouring
 - lens, perspective and power clip
 - fitting text to a path
 - color adjustment and bitmap effects
 - page setup and printing
 - uses of corel draw in jewellery industry

Project

Advance Manufacturing

- Technique with metal
 - stamping with die
- making earrings,necklace
 - collet making and setting
- prong and baze for rounds, princess, marquise, pear stones
- making rings,earrings
 - introduction to casting
- Enhancing look by
 - engraving
 - enamelling - hot
 - filigree
 - granulation
- Finishing and Polishing
 - pickling
 - buffing
 - ultrasonic cleaning
 - magnetic polisher
 - rhodium polish
 - sandblasting
 - texturing with different burs
- Clasps and findings

Life-skills education

Creative Writing for Jewellery

- Art of Writing
- Understanding the Jewellery Terminology
 - underline the terms used/related to jewellery from the collected articles
- Write 300 words article on on given themes

Certificate Level-IV

Theory and Practice

Knowing of Materials used in jewellery

- Information Collection from Local Market and Documentation
 - platinum, gold, silver, brass, copper, tin, aluminum, lead
 - availability in form of sheet, wire, tube and granulation
 - stones - real and synthetics
 - purity and pricing
- Document in word format

Creative Expression

Designing using Principles of Design

- Creating pieces using Methods of Manipulation
- Rendering of pieces
- Mounting and Presentation
- Designing for costume/fashion jewellery market

History and Cultural Context

Study of Jewellery History - India

- Precious jewellery study
- from Indian history from Mauryan, Gandhar, Mughal periods - materials available - sculpture, paintings
 - designs - occasion based, symbolical,
 - trading during the era
 - special craftsmanship
 - jewellery hubs
- Costume jewellery study
- from all aspects/occasion
 - dances, festivals, harvesting
 - materials available
 - designs - occasion based, symbolical,
 - special craftsmanship

Aesthetic Value

Designing with Orthographic and Perspective II

- Rings with diamonds and colour stones
- Pendants with diamonds and colour stones
- Necklace using large stones

Connection interactions and Applications

Detail Designing on computer - Coral draw

- Designing bigger pieces using principles of design
- Stone drawing and rendering
- Designing piece with colour stones/diamonds
- Shadows and shadings

Project

Jewellery Making

- Stone setting
 - prong collet making and setting for different stones - emerald cut, heart, baguette taper
 - bezel collet making and setting for oval, marquise, pearl
 - pave with rounds
 - tension setting with rounds and princess
 - channel setting for rounds
 - making caps for different shapes of pearl and broilers
- Creating smaller pieces using above techniques
- Quality check for jewellery

Life-skills education

Ethics in industry

- Visit jewellery units/ showrooms
- Collect information on
 - related metals
 - manufacturing
 - secure employment
 - respect workers freedom of association,
 - reducing energy and water
 - toxic use
 - issue of child labour
 - best practices used in the unit
 - re-use, re-cycling and zero waste
- Jewellery Communication
- promotion/publicity of jewellery collection through magazines
- Each student must be able to write about or illustrate jewellery collection in a concise, exciting and meaningful manner

Certificate Level-V

Theory and Practice

- Metallurgy
- Introduction to metals
 - knowing of different metals - copper, brass, silver, gold, platinum
 - properties
 - ferrous and non ferrous
 - density
 - jewellery applications
 - refining process
- Alloys
 - uses of alloys
 - behavior with different metals
 - carat and colours with alloys
 - alloys for different processes of jewellery making - (sheet, wire, tube) stamping handmade jewellery and casted jewellery
 - making of alloy
 - physical change due to alloy in silver, gold and platinum
- Chemicals
- understanding of chemicals used in jewellery in different processes
 - casting
 - plating
 - electropolishing
 - refining
- Recovery and refining of metal
 - understanding the need
 - scrap/dust collection method
 - refining process
- Hallmarking
 - requirement and importance - metal and stones
 - gold assaying and methods
 - role of agencies - BIS, HRD, GIA
- Document in word format and presentation on one subject

Creative Expression

- Indian jewellery design study and design pieces based on it
- Designing jewellery
 - based on market research mass produced jewellery for Indian Brand - Nakshatra, Gili, Agni, Orna
 - based on market research on Local Market - using Metal, Diamond and Colour stones
 - calculation of weight of jewellery
 - pricing of jewellery
 - window display
 - packaging
 - mounting

- documentation and presentation

History and Cultural Context

- Techniques of Jewellery Making II
- Study with documentation on manufacturing technique with relevant pictures
 - stamped jewellery
 - wire jewellery including chains, filigree
 - tube/hollow jewellery including electro forming
 - casting jewellery
 - textured/ etched jewellery
 - engraved jewellery
 - enamelled jewellery
 - granulation jewellery

Aesthetic Value

- Designing collection with Orthographic and Perspective and Manufacturing
- For collection covered under creative expression

Connection interactions and Applications

- Making of Masterpiece using CAD/CAM I - JewelCad/ Rhino
- Introduction to software
- Understanding of tools
- Creating 2 dimensional jewellery
- Modification of the 2D Design - as per client requirement
- Creating 3 dimensional jewellery
- Modification of the 3D Design - as per client requirement
- Advance surfacing
- Weight estimates
- Codification of design
- Cataloging
- Presentation in 4 views
- Output on CAM

Project

- Jewellery Making for Mass Production
- Wax Carving
 - understanding of wax
 - selection of wax according to design and marking
 - creating levels
 - scooping
 - finishing
 - sprue attachment
- Casing (lost wax)
 - different techniques of casting
 - introduction to equipments
 - process of lost wax casting

- master making
- sprue attachment
- rubber mould making
- vulcanizing
- rubbercutting
- wax injection
- tree making
- investment maxing
- de waxing
- burnout
- alloying of metal
- casting
- tree cutting
- finishing and polishing
- stone setting
- finishing and polishing
 - defects in casting and repairing it
- Managing a manufacturing unit
 - understanding of PPC(production,planning and controlling)
 - quality control
 - sourcing of material
 - maintaing of tools and equipments
 - surveillance of unit
 - document requirements

Life-skills education

- Team Building and Team Work
- Team goals
- Skills needed for Teamwork
 - listening, questioning, persuading, respecting, helping, sharing, participating, communication
- Characteristics of Effective Teams
 - promotion of a product - precious artifacts/ accessory
 - marketing strategy
 - promotion of a Jewellery Designer
- Group project with 4/5 people to be evaluated with discussion
- Etiquette and manners

Certificate Level-VI

Theory and Practice

- Diamond Grading
- Origin and diamond mining areas
- Famous diamonds and patents
- Journey from rough to market
- Understanding of diamonds
 - physical properties
 - optical properties
 - chemical properties
 - electrical properties
 - thermal properties
- Introduction to the equipments for diamond grading
- International standards for grading
- Grading 4 'C' of diamonds
- Cutting and polishing process
- Fancy cut and their evaluation
- Understanding of lab report/certificate
- Document in word format and presentation on one subject

Creative Expression

- International jewellery design study and design pieces based on it
- Designing jewellery
 - based on research on mass produced jewellery for International Markets - USA, Europe,
- Middle East, Japan, Italian
 - based on research on high end jewellery on International Brands - Cartier, Harry Winston, Chanel,
- Chopard using Metal, Diamond and Colour stones
 - calculation of weight of jewellery
 - pricing of jewellery
 - mounting
 - documentation and presentation

History and Cultural Context

- Collection based on Indian History
- Designing jewellery
 - based on one theme
 - commercially wearable Gold, Diamond and Colour stones
 - calculation of weight of jewellery
 - pricing of jewellery
 - mounting
 - documentation and presentation

Aesthetic Value

- Practical study of Diamond Grading

- Introduction to the equipments for diamond grading
- Grading 'C' of diamonds
- Cut
 - proportion of diamonds
 - crown
 - pavilion
 - girdle
- Colour
 - causes of colour
 - factors effecting colour judgement
- Clarity
 - internal inclusions
 - external blemishes
- Carat
 - with sieve
 - with gauge
 - weight estimation
- Cutting and polishing
- Fancy cut and their evaluation
- International standards for grading
- Identifying synthetics
- Pricing at national and international market

Connection interactions and Applications

- Making of Masterpiece using CAD/CAM - Ideas I
- Introduction to software
- Understanding of tools
- Creating 2 diamentional jewellery
- Modification of the 2D Design - as per client requirement
- Creating 3 diamentional jewellery
- Modification of the 3D Design - as per client requirement
- Advance surfacing
- Weight estimates
- Codification of design
- Cataloging
- Presentation in 4 views
- Output on CAM

Project

- Portfolio Making using Handmade Manufacturing
- Making minimum 4 pieces - necklace, earring, ring and bangle/bracelet

Life-skills education

- Skills
 - time management
 - market research

- creativity/innovation of product
- purpose of the product, unique features
- Project presentation in 1 month on
 - indian jewellery designers/houses
 - international jewellery designers
 - jewellery trends

Certificate Level- VII

Theory and Practice

- Gemology
- Origin and mining areas
- Famous diamonds - beauty and rarity
- Journey from rough to market
- Understanding of Gem stones
 - physical properties
 - optical properties
 - chemical properties
- Cutting and polishing
- International standards for grading
- Enhancement methods followed
- Identifying synthetics
- Focus on emerald, ruby, sapphire and their substitutes
- Understanding of lab report/certificate
- Document in word format and presentation on one subject

Creative Expression

- Portfolio Making
- Designing jewellery
 - based on a theme
 - commercially wearable Gold, Diamond and Colour stones
 - calculation of weight of jewellery
 - pricing of jewellery
 - mounting
 - documentation and presentation

History and Cultural Context

- Collection based on International History
- Designing jewellery
 - Based on a theme
 - commercially wearable Gold, Diamond and Colour stones
 - calculation of weight of jewellery
 - pricing of jewellery
 - mounting
 - documentation and presentation

Aesthetic Value

- Practical study of Gemology
- Understanding of Gem stones
 - physical properties
 - optical properties
 - crystallography
- International standards for grading

- Grading the following groups
 - corundum
 - beryl
 - quartz
 - garnet and feldspar
 - topaz
 - tourmaline
 - preidot
- Grading of organic gemstones
 - pearl
- Identifying
 - synthetics
 - enhanced
 - fake
- Pricing at national and international market
- Focus on emerald, ruby, sapphire and their substitutes

Connection interactions and Applications

- Portfolio Making using CAD/CAM
- Designing jewellery
 - based on a theme
 - commercially wearable Gold, Diamond and Colour stones
 - calculation of weight of jewellery
 - presentation in 4 views
 - output on CAM

Project

- Design Communication
 - marketing awareness
 - creating your own brand
 - visual merchandising - small scale
 - jewellery photography with own collection

Life-skills education

Jewelry Styling and Jewelry Photography