Diploma in Jewellery Design

**Rajasthan ILD Skill University (RISU)**



Course Structure and Curriculum

**For Academic Year 2022-2026**

# Diploma in Jewellery Design Year 1 - Semester 1

**Course Code: Paper Code:**

**Title:** Material Exploration and Techniques

**Pre-requisite:** N.A.

**Objectives:** The Module Aims

* To familiarize with various materials and their basic properties and use of tools & techniques in order to train the students’ material skills, tactile abilities, behavioral understanding
* to enable the students to handle various materials, tools & processes appropriately to their intended application in design realization and applications

# Syllabus:

* Introduction to the general workshop, tools & materials.
* Handling of tools and types of material (Hard & soft material)
* Limitation and inherent strengths of the material.
* Sculpting & modeling
* Apply additive & subtractive material manipulation.
* Apply decorative techniques and different surface finishes

# Suggested books and references:

* + Chris.L. (2004). **Inspirational Design: Metal**, Rotovision.
  + Beata, T. (2001) **Paper** , Conran, Octopus Limited.
  + Verhelst, W (1973) **Sculpture: Tools, Materials and Techniques**, Prentice Hall.
  + Jaya.J. (1990) **Craft Traditions of India,** Tiger books,
  + Oppi.U. **(**1985) **Jewellery Concepts and Technology**, New York, Doubleday,

**Assignments:** Documentation 30% and Final products 70%

**Scheme of Examination:** Self (Jury)

# Learning Outcome:

By the end of this unit, Students will be able to:

* Orient themselves to a variety of materials & their behavioral differences
* Set standards of precision & accuracy levels of materials
* Handle various materials & related tools in different technical ways
* Understand the link between the character of materials & their appropriate use
* Choose & handle various material appropriately for different artistic or design visualization/realization purposes

**Course Code: Paper Code:**

**Title:** Visualization & Representation

**Pre-requisite:** N.A.

**Objectives:** The Module Aims

* + To develop drawing as an essential skill of form visualization & articulation.
  + To enable students to understand characteristics of physical & visual nature of natural as well as manmade forms with reference to surface, mass, volume, proportion, perspective, color.
  + To develop a basic understanding of form & geometry.

# Syllabus:

* Visualization & Representation Methods
* Analytical drawing
* Form & Structure Development
* Technical Specification
* Developing two dimensional growth patterns
* Fundamental & Application of Colors

# Suggested books and references:

* Dantzig C. M. (1999) How to Draw London, Laurence King.
* Roberts G. (1999) Basic Rendering London, Thames & Hudson.
* David R. (2000) Fast Sketching Techniques Ohio, North Light.
* Kurt. H. (2002) Rapidviz USA, Crisp Publications.

**Assignments:** Portfolio 100%

**Scheme of Examination:** Self (Jury)

# Learning Outcome:

By the end of this unit, Students will be able to:

* Establish an appropriate standard of drawing skills
* Understand form structure as physical & visual phenomenon and their representation.
* Understand basic composition & visual balance.
* Understanding geometric principles and their application.
* Understanding perspective, isometry and orthography drawing

# Course Code: Paper Code:

**Title:** Fundamentals of Art & Design (History of Jewellery, Overview of G&J Industry)

**Pre-requisite:** N.A.

**Objectives:** The Module Aims

* + To develop an appreciation of all creative fields especially History of Craft, Body Adornment, Ornamentation and design.
  + To broaden the students, range of cultural references in styles, ornamentation & material expression.
  + To introduce students to key cultural developments, practices and movements related to jewellery.
  + To familiarize students to basic overview of Gems and Jewellery Industry

- different jewellery markets, basic working methodology, business and trade models.

* + To familiarize students to renowned domestic and international jewellery brands.

# Syllabus:

* Social, historical and cultural context of jewellery
* Art movements popular for jewellery
* History of Body Adornment and Ornamentation (adornment in different cultures)
* History of Gems & Jewellery (Emergence and journey of Jewellery as a universal form of adornment and journey of Gemstones)
* Overview of different jewellery markets
* Basic overview of working methodology of jewellery industry
* Types of G&J business enterprises
* Production systems & sourcing of products & components in G&J sector.
* Overview of renowned domestic and international jewellery brands.

# Suggested books and references:

* + Raren.G.D.H& Prescott, (1998) **100 Style & Designs** Bristol, Dempsey, Parr.
  + Kyoto.S.Co. Ltd (1993) **Positive Design for Fashion Creations**, Japan.
  + Johannes.I. **(**1997) **Design & Form: Basic Course at Bauhaus,** Thomas & Hudson Ltd,
  + Danger, E.P**. (**1987) **Colour Handbook**, England, Gower Technical Press Ltd.
  + Fashion from Concept to Consumer, Gini Stephens published by Pearson ,2005
  + Clothing technology, H.Eberly Berger Verlag Europa published by Leher Mittel, 2010

**Assignments:** Documentation 100%

**Scheme of Examination:** Self Exam (Jury)

# Learning Outcome:

By the end of this unit, Students will be able to:

* + Discuss the social, historical and cultural context jewellery
  + Understand the popular art movements for jewellery
  + Understand history of craft, adornment and journey of Gems & Jewellery
  + Appreciate differences between traditional & contemporary trade practices and understand broad differences in domestic & export business concerns
  + Understand basic working methodology in jewelry industry & quality bench marks in different types of Jewellery
  + Present research findings, through written work, visually and orally.

**Year 1 - Semester 2**

**Course Code: Paper Code:**

**Title:** Jewellery Manufacturing Process

**Pre-requisite:** N.A.

**Objectives:** The Module Aims

* + To develop hand skills of Jewellery fabrication techniques with familiarity of related tools & processes.
  + Orientation to various processes used in Jewellery making.
  + To appreciate conceptual understanding of materials & process relationship from their limits & potential.
  + To introduce skills & capabilities to apply hand crafting process of jewellery making

# Syllabus:

* Safety measures: Orientation to issues related to safety, health and environmental related issues.
* Jewellery Construction: skills development & process understanding of basic techniques of Jewellery fabrication as well as application of related tools & equipment. Construct jewellery including includes pendant, earring, types of ring, etc.
* Jewellery components: understanding of Jewellery classification, various components used in fabrication, assembly, findings & hardware as well as related terminology

# Suggested books and references:

* + Codina.C. (2000) The Complete Book of Jewelry Making: A Full-Color Introduction to The Jeweler's Art, Lark
  + Oppi.U.(1985) Jewellery Concepts and Technology, New York, Doubleday.
  + Sylvia.W. (1990), Jewellery Making manual, London, McDonalds Illustrated.
  + MacGrath,J. (1995), Encyclopedia of Jewellery Making Techniques, USA

,Running Press Publishers,

* + Joanna.G. (2003), Making Metal Jewellery: Projects, Techniques,Inspiration, Lark.

**Assignments:** Documentation 30% and final products 70%

**Scheme of Examination:** Self (Jury)

# Learning Outcome:

By the end of this unit, Students will be able to:

* Appreciate and incorporate safety systems in the workshop.
* Explore and expand their knowledge and understanding of Jewellery classification, components, clasps & findings
* Apply fabrication techniques and processes for product development
* Display work & process planning skills during the process of making
* Appreciate specific use of tools, equipment & material behavior
* Identify the different materials & processes used in Jewellery.
* Acquire the skills & operating knowledge of the Machines used for different processes

**Course Code: Paper Code:**

**Title:** Jewellery Drawing & Rendering

**Pre-requisite:** N.A.

**Objectives:** The Module Aims

* + To orient the students to develop understanding of various methods of drawing and representing jewellery and gemstones
  + To develop understanding & apply methods of orthographic & isometric drawing for technical specification, size & scale of products as a means of production specs & details
  + to develop skills of product rendering through representation of different materials, forms & finishes using suitable rendering media

# Syllabus:

* Gems and Jewellery Size convention and charts
* Introduction to metal rendering, forms, textures & finishes
* Gemstone rendering
* Stone setting & representation
* Functional and opening & closing mechanism
* Jewellery Drawing
* Orthographic and isometric projection of jewellery
* Technical specification: sections, scale, nomenclature & spec chart
* Surface decorative technique (enameling, filigree, repose, kundan & granulation)
* Draw and renderer different types of jewellery (Kundan meena, diamond, gold, studded, etc.)

# Suggested books and references:

* + Techniques in jewelry illustration and color rendering by Adolfo Mattiello
  + Creative variation in jewelry design by Maurice P Galli, Dominique Riviere, Fanfan Li.
  + Parkinson,A.C. (1999) A First Year Engineering Drawing, New Delhi, Wheeler.
  + Bhatt, N.D. (1993) Elementary Engineering Drawing, Anand, India Charter Publishing House.
  + Giesecke, Frederick E.M., Alva, Henry C.S., Leroy, Ivan.H.l, John T. D., James E.N., Ivan L.H., (2002)

**Assignments:** Portfolio 100%

**Scheme of Examination:** Self (Jury)

**Learning Outcome:**By the end of this unit, Students will be able to:

* Demonstrating knowledge of technical specification
* Competency of rendering & product presentation
* Understanding orthographic and isometric representation of jewellery product
* Creating jewellery product giving them a realistic look understanding the light & property of metal & stones.
* Understand and apply methods of orthographic drawing for technical specifications, size, scale of product as a means of production specification & detail.

# Course Code: Paper Code:

**Title:** Jewellery Design Project -1 (2 D CAD Based)

**Pre-requisite:** SC205S

**Objectives:** The Module Aims

* + To orient the students to develop understanding of application of 2D CAD software to develop jewellery design
  + To implement various designing skills and techniques for generating self- create design on 2D CAD Software
  + Develop skills of product drawing and rendering through representation of different materials, forms & finishes using appropriate tool.
  + To develop the skill of graphical representation of jewellery using appropriate graphic software

# Syllabus:

* Learn 2D CAD Software, tool and commands to develop design sheets
* Gems and Jewellery Size convention and charts
* Metal rendering, forms, textures & finishes
* Design Manipulation Techniques
* Gemstone rendering, Stone setting & representation
* Surface decorative technique (enameling, filigree, repose, kundan & granulation)
* Develop Independent design range of jewellery products e.g. pendant, earring, rings, bangle, necklace, accessories, etc. as per industrial standards
* Develop jewellery graphic pages for digital representation and business promotional activity

# Suggested books and references:

* + [www.corel.com](http://www.corel.com/)
  + [www.psd.tutsplus.com](http://www.psd.tutsplus.com/) **Assignments:** Portfolio 100% **Scheme of Examination:** Self (Jury)

# Learning Outcome:

By the end of this unit, Students will be able to:

* Demonstrating knowledge of technical specification using appropriate 2D CAD software
* Competency of rendering & product presentation on 2D CAD Software
* Creating jewellery product giving them a realistic look understanding the light & property of metal & stones.
* Develop graphical presentation of jewellery
* Submit an Independent Jewellery Design Project with range and style as per industrial standards
* Develop digital portfolio and design graphical pages for business and promotional activity like poster, webpages, brochures etc.