

## **B. Voc. in Jewellery Design**

### **Semester 2**

**Course Code:**D705

**Paper Code:** SC204P

**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.
- McCreight.T., (1997), Jewellery Fundamentals of Metal Smithing, Brynmorgen Press.
- MacGrath.J. (1995) Encyclopedia of Jewellery Making Techniques, USA, Running Press Publishers.

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

**Scheme of Examination:** Practical

**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:** D705

**Paper Code:** SC205S

**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.I, 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:** D705  
**Title:** Jewellery Design Project  
**Pre-requisite:** SC205S

**Paper Code:** SC206S

**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 eg. 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.