

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

### **Semester 4**

**Course Code:** D705

**Paper Code:**

**Title:** Jewellery Production Processes

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

**Objectives:** The Module Aims

- Develop knowledge of various production methods and evaluate various Jewellery manufacturing & business systems and equipment in the industry.
- To analyze the impact of these on the workforce, productivity and quality of manufacture, enable insight of technical processes & chemistry of alloying & metallurgy and to understand relationship between alloys & behavioral & visual implications of their use.
- To familiarize with methods of testing alloy composition, expose students to different processes of finishing & finishes and to provide hands on experience of some of the processes to appreciate tools, equipment, safety & timescale involved in such processes.

**Syllabus:**

- Reinforcing the inputs on safety related issues pertaining to Jewellery sector.
- Casting (gravity pour casting, lost wax casting, centrifugal casting)
- Rubber packing, die cutting, wax injection and tree making
- Tools & machinery
- Available forms, sources, unit measures, sizes & sections, popular technology
- Quality control of precious metal
- (Lowering and raising the metal quality, hallmark and standards, touchstone method, cupellation – assaying, recovery and refinement.)
- Study of Industrial practices
- Introduction to Jewellery production in organized industry & unorganized sector
- Environmental friendly approaches of production.
- Study of Production Process and Planning in dealing with both production set ups
- Hands on operations of dominant production processes in Jewellery
- Emerging technology in Jewellery production
- Quality control & systems in in-house & outsourced products / components

**Suggested books and references:**

- MacGrath, Jinks, (1995) Encyclopedia of Jewellery Making Techniques, USA, Running Press Publishers.
- Oppi.U. (1985). Jewellery Concepts and Technology, New York, Doubleday.
- Hughes, Richard & Rowe, Michael, (1994). The Colouring, Bronzing & Patination of Metals, London, Thames & Hudson
- Oppi.U. (1985). Jewellery Concepts and Technology, New York, Doubleday.

- Schlesinger, Mordechai (Editor), Paunovic Milan (Editor), (2000) Modern Electroplating, 4th Edition, Wiley-Interscience.

**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:

- Understand the various Industrial Jewellery production processes & techniques used in real life.
- Should be able to anticipate production process for their own designs in detail with a specific focus on environmentally friendly approaches of production.
- Understand the applications of quality functions in the Jewellery industry.
- Understand the systems of documentation, quality, inventory, security, out sourcing & ordering
- Adopt right process / technique for their work considering environmentally friendly systems.

**Course Code:** D705

**Paper Code:**

**Title:** Innovative Jewellery Design Project

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

**Objectives:** The Module Aims

- Design and present a project.
- Develop exploration & product ideation through sketches with all details & specs and utilizing the skill learned during semester I – IV

**Syllabus:**

- Students to clearly articulate features/personality of the identity to be developed
- Students to develop samples/prototypes/scale models of selected design alternative.
- Development of theme/story board
- Concept exploration & product ideation through sketches.
- Style exploration
- Realization of products with refinement & detailing
- Students to document the entire process of design development & present it as display

**Suggested books and references:**

- Current fashion, Jewellery and business magazines
- Trade journals

**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:

- Conduct independent research on the given brief
- Demonstrate analytical, critical and evaluation skills
- Apply design & brand development principles to develop a distinct demonstrate ability to plan schedules and manage time effectively
- Present design alternatives in an innovative manner

**Course Code:** D705  
**Title:** Industrial Training

**Paper Code:**

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

**Objectives:** The Module Aims

- Prevalent commercial and industrial practice and reinforce theoretical knowledge with practical experience.
- To develop the ability to work as an effective and willing member of a team and sharpen people skills.
- To develop an understanding of organizational structure, decision making, operational roles & business concerns.
- To provide an understanding of the pressures of a fast-moving industry

**Syllabus:**

- First-hand exposure to a Jewellery firm and its working structures and systems
- Specific project on the job to experience efficacy of learning & relevance of design in real life situation
- Further development of generic/cognitive/people skills
- Internship report

**Suggested books and references:**

- Host company profile and other related data
- Current fashion and business magazines / related and relevant bibliography if and as relevant to work experience / job responsibility
- Trade journals / news papers

**Assignments:** Documentation 100%

**Scheme of Examination:** Practical

**Learning Outcome:**

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

- Understand the workings of a Jewellery firm
- Familiarity to the practices of the Indian Jewellery industry and associated technology levels, markets and practices
- Relate classroom learning to real – life applications, gauge and evaluate differences between the two
- Further develop generic and cognitive skills required for advanced learning and application in the Degree phase