

# **STRUCTURE OF THE FUTURE TRAINING COURSE**

**Module 1.**  
**INNOVATION PROCESS APPLIED IN  
TRADITIONAL SECTOR**

**Module 2.**  
**DESIGN THINKING & SKILLS**

**Module 3.**  
**3D PRINTING & PRODUCTION PROCESS**

**Module 4.**  
**CURRENT PROCESSES – DIFFERENT  
FIELDS OF APPLICATION**

**Module 5. ENTREPRENEURSHIP AND  
3D PRINTING – NEW BUSINESS IDEAS**

**Module 6.**  
**ADVANCED INDUSTRIAL ROBOTICS  
APPLIED IN CRAFTS**

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## **M1. INNOVATION PROCESS APPLIED IN TRADITIONAL SECTOR**

- 1.1 **Basics** of Innovation process
- 1.2 **Stages** of Innovation Process
- 1.3 **Innovation Management** and New Product Development
- 1.4 **Co-Innovation concept**

## **M2. DESIGN THINKING & SKILLS**

- 2.1 What is Design Thinking?
- 2.2 **Principles** of Design Thinking
- 2.3 Design Thinking **process**
- 2.4 Design Thinking and **Business Models**
- 2.5 Critical Thinking **Skills**
- 2.6 **Benefits** of Design Thinking
- 2.7 3DP as a tool to adopt the Design Thinking **methodology**

## **M3. 3D PRINTING & PRODUCTION PROCESS**

- 3.1 **History** of 3D Printing
- 3.2 Description of the **Production Processes** and **Available Software** for 3D Printing
- 3.3 **Technologies** in 3D Printing
- 3.4 3D Printing **Materials**
- 3.5 **Risk Management**
- 3.6 **Impact** of 3D printing on the **supply chain**

# **STRUCTURE OF THE FUTURE TRAINING COURSE**

## **M4. CURRENT PROCESSES – DIFFERENT FIELDS OF APPLICATION**

- 4.1 3DP Technologies – **Process, Resolution, Accuracy, Sizes, Security**
- 4.2 3DP Technologies – **Extract the pieces, post-processes**
- 4.3 3DP Technologies – **Real-life examples – Traditional sectors**
- 4.4 3DP Technologies – **Real-life examples – Non- Traditional sectors**
- 4.5 **Environmental Impact** and Reusing Potential

## **M5. ENTREPRENEURSHIP AND 3D PRINTING – NEW BUSINESS IDEAS**

- 5.1 What is **Entrepreneurship?**
- 5.2 **Generating and Development** a Business Idea, 3D Printing Business Ideas
- 5.3 **New Entrepreneurship ideas** using 3D Printing

## **M6. ADVANCED INDUSTRIAL ROBOTICS APPLIED IN CRAFTS**

- 6.1 **Principles and fundamentals** of robotics
- 6.2 **Programming** a robot
- 6.3 **Criteria for the implementation** of a robot
- 6.4 **Application of robotics**
- 6.5 **Coupling AIR with 3DP** Theory and real examples

# Professionals, Workers, Entrepreneurs

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