



1

Learning outcomes

2

Curriculums

3

Technical report

Introduction to 3D printing

- Overview of the technology
- Materials used in 3D printing
- Components of 3D printers
- Safety issues in 3D printing
- 3D printing application fields
- Modelling & printing software
- 3D printing file formats

3D printing process

- Installation and calibration
- Preparations of the machine
- Adjustment of printing parameters
- Post processing
- Quality control of 3D printed part

Creation a model to 3D print

- 3D Representation of a single design component
- Assembly: A 3D arrangement of parts and other assemblies
- Drawing: A 2D engineering, typically or a part or assembly

Developing modelling skills

- Orthographic projection
- 2D and 3D dimension
- Sketch 2D
- Boss/Base
- Cut
- Sketch 3D
- Assembly

Optimization

- Optimization in the design
- Optimization and quality
- Design recommendations
- Pre processing parameters
- Infill design
- Cost optimization

3D printing for electric-electronic

- 3D print of electric components
- 3D print of electric projects
- 3D print of spare parts
- 3D print of electronic projects

for more information and online training course please visit project website

www.3dp-for-vet.eu



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