

MODERNIZATION OF MECHATRONICS AND ROBOTICS FOR BACHELOR DEGREE IN UZBEKISTAN THROUGH INNOVATIVE IDEAS AND DIGITAL TECHNOLOGY 609564-EPP-1-2019-1-EL-EPPKA2-CBHE-JP



Additive Manufacturing: From 3D Modeling to 3D Printing

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Instituto Politécnico de Viana do Castelo













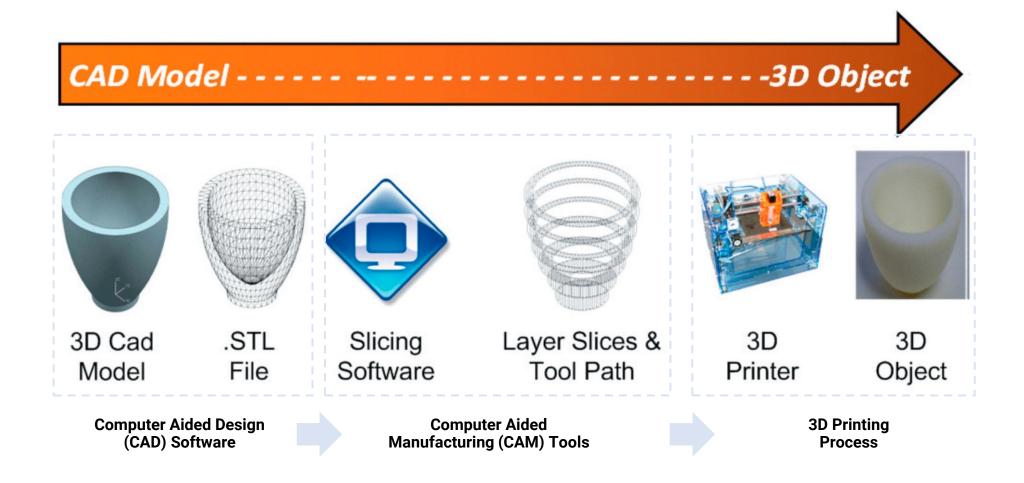








The Essential Path from CAD modeling to 3D Printing





The MSc in Strategic Product Design

- University Center of International Programmes of Studies (UCIPS – Thermi)
- School of Science and Technology
- Teaching exclusively in English language
- Three Specialization Streams
 - Product and Services Management
 - Product Creativity and Design
 - Industrial Design and Innovation
- More than 20% foreign Students from 20+ countries
- Full Time (1 Year) /Part Time (2 Years) Mode
- Courses are exclusively in Weekends
- Hands-on Practice in State-of-the-Art Equipment



The Digital Manufacturing & Materials Characterization (DMMC) Lab

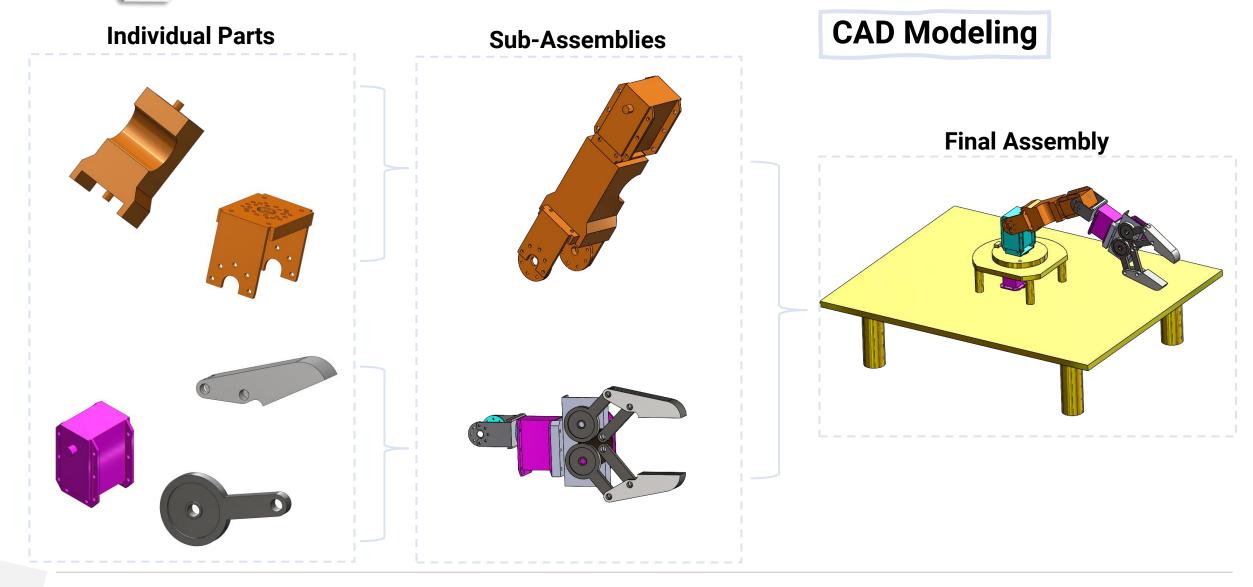
- Additive Manufacturing Technologies
 - FFF, SLA, SLS, DIW and more
- Subtractive Manufacturing Technologies
 - CNC and Laser Cutter
- 3D Scanning Technologies
 - Portable, Desktop, UAVs
- Advanced Materials Testing Apparatuses
 - Tensile, Compression, MicroHardness
- Microscopy Analysis
 - SEM with various capabilities
- Advanced Software
 - Solidworks, ANSYS, Artec Studio, SolidCAM and more





The Key Features of Every Step

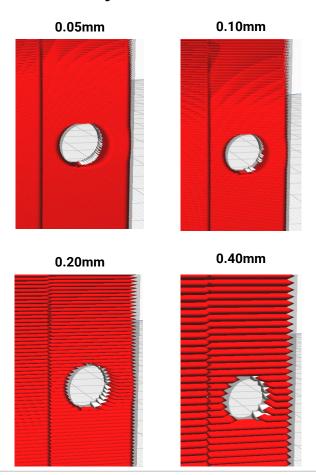




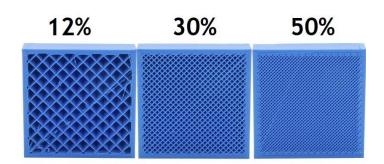


Slicer

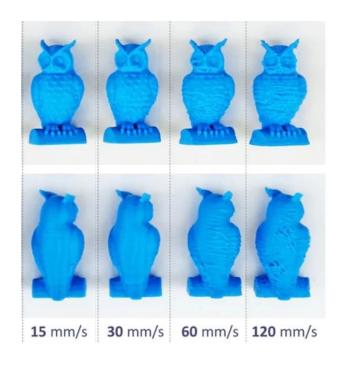
Layer Thickness



Infill Density



Printing Speed



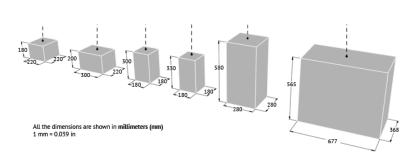


3D Printer

Nozzle Size



Build Volume



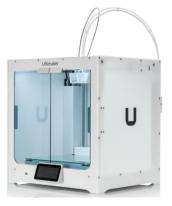
Printable Materials (PLA, ABS, Nylon, ASA, PVA etc.)



Enclosure



Without



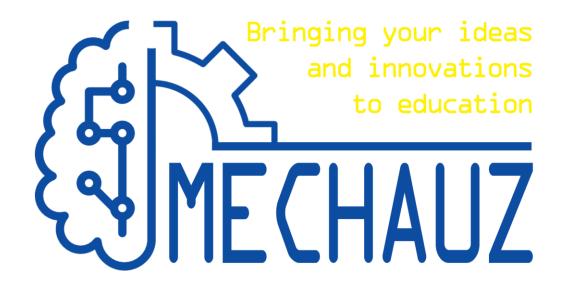
With



Live Presentation

A live presentation in the following topics will be followed:

- 1. Computer Aided Design (CAD) Software
 - 2. Slicer Software
 - 3. 3D Printing Live Demonstration



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THANK YOU

FOR YOUR ATTENTION