



UCAM
UNIVERSIDAD
CATÓLICA DE MURCIA

SHORT COURSE IN FUNDAMENTALS OF 3D DIGITAL DESIGN & ADDITIVE MANUFACTURING (3D PRINTING)



More info:



Objectives

- Get a global vision of the additive manufacturing process: from the digital modeling of an object to its final 3D printing.
- Know the basics of 3D design through advanced CAD tools such as Solid Works.
- Focus the design process to additive manufacturing.
- Obtain digital models through digitizing techniques such as scanning.
- Understand the basics of 3D printers: electronics, mechanics, etc.
- Control the maintenance and operation of 3D printers.
- Know the properties of the most common materials used for 3D printing.
- Manage a full additive manufacturing project.
- Get in contact with the 3D printing industry and entrepreneurs.

Additional Information

- **Place:** On Campus (Murcia)
- **Hours:** 60 hours
- **Schedule:** Monday to Friday. 09:00-14:00 or 16:00-21:00

Schedule

MODULE I. 3D Design (Part I)

SESSION 1

09:00	Tour in UCAM + Course Introduction
11:30	BREAK
12:00	Basics Concepts of Solidworks
14:00	LUNCH
17:00	-
20:00	Murcia: Cultural Tour

SESSION 2

09:30	Introduction to the sketch I
11:30	BREAK
12:00	Introduction to the sketch II
14:00	LUNCH

SESSION 3

09:30	Basic part modeling: Extrusion I
11:30	BREAK
12:00	Basic part modeling: Extrusion II
14:00	LUNCH

SESSION 4

09:00	Basic part modeling: Revolution I
11:30	BREAK
12:00	Basic part modeling: Revolution II
14:00	LUNCH

SESSION 5

12:00	Company Visit: Cella Medical Solutions
14:00	LUNCH

MODULE II. 3D Design (Part II)

SESSION 1

09:30	Basic model of parts: Sweep I
11:30	BREAK
12:00	Basic model of parts: Sweep II
14:00	LUNCH

SESSION 2

09:30	Configuration of starting formats I
11:30	BREAK
12:00	Configuration of starting formats II
14:00	LUNCH

SESSION 3

09:30	Drawings and plans I
11:30	BREAK
12:00	Drawings and plans II
14:00	LUNCH

SESSION 4

09:00	Assembly and Sub-assumptions I
11:30	BREAK
12:00	Assembly and Sub-assumptions II
14:00	LUNCH

SESSION 5

12:00	Company Visit II: CEEIC - Drónica & Fluid 3D
14:00	LUNCH

MODULE III. 3D Manufacturing

SESSION 1

09:30	Basic model of parts: Sweep I
11:30	BREAK
12:00	Basic model of parts: Sweep II
14:00	LUNCH

SESSION 2

09:30	Configuration of starting formats I
11:30	BREAK
12:00	Configuration of starting formats II
14:00	LUNCH

SESSION 3

09:30	Drawings and plans I
11:30	BREAK
12:00	Drawings and plans II
14:00	LUNCH

SESSION 4

09:00	Assembly and Sub-assumptions I
11:30	BREAK
12:00	Assembly and Sub-assumptions II
14:00	LUNCH

SESSION 5

09:30	-
12:00	Graduation Ceremony - Farewell Event
14:00	LUNCH

Services Included

- Accommodation
- Breakfast and lunch (excluding weekends)
- Transport Card (Murcia city)
- Teaching materials
- UCAM welcome pack
- Murcia city guided tour
- UCAM Course Completion Certificate
- 1 company visit per week

Airport transfer to Murcia or Pick up services are not included.