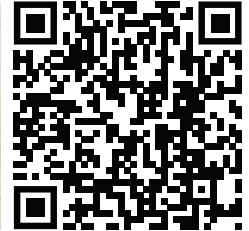




SUSTAINABLE PLASTICS 2024

from feedstocks to product design



ERASMUS+ Blended Intensive Programme (BIP)

OUR APPROACH

15 online lectures

5 days hand-on experience in beautiful Aveiro city in Portugal

Project-based learning method with industrial mentors

Working towards sustainable plastic solutions

AVAILABLE SPOTS

20 spots available (+5 local places)

International and multicultural learning environment

Multidisciplinary and creative approach



polymeric and composite materials science and technology that enabled job ready skills



reuse of industrial wastes for a circular design



traditional and emerging processing plastic technologies



advanced characterization of polymeric materials



design-oriented sustainable plastic manufacturing



Virtual lectures
May - June 2024

In Aveiro - June 19th - 25th

Report and virtual presentation
July 2024



Application deadline - April 15th



pcferreira@ua.pt

5 days in Aveiro, Portugal

SUSTAINABLE PLASTICS

from feedstocks to product design

PROGRAM DETAILS

MAY '24

Polymers, blends and composites
Recycling and Circular Economy
Biodegradable polymers: types, properties and actual market
Biopolymers/bioplastics and morphologic characterization
Biopolymers/bioplastics physical-chemical characterization
Mechanical and thermal characterization
Desing for sustainability
Compounding technologies
Processing technologies
Additive manufacturing (stereolithography, Fused Filament Fabrication, etc)
Sustainable Lyfe Cycle Assessment

JUNE '24

CAD design I
CAD design II
CAD design III
Brainstorm I
Brainstorm II
Brainstorm III

5 days project

JULY '24

Preparation of deliverables
Preparation of deliverables
Final presentation



- 41 hours virtual component
- 40 hours short-tem physical mobility
- Award 3 ECTS

- 15 online lectures (2 hours each) to deliver skills for better project-based learning in mobility

- Access to all equipment/sotwares used for sustainable plastics' products design, compounding, characterization and manufacturing

- Visit plastic industries, and contact with the latest trending and emerging technologies towards sustainability

APPLY
HERE!



universidade
de aveiro



f /demac.univ

@demac_ua

www.ua.pt/demac