

SUSTAINABLE PLASTICS - FROM FEEDSTOCKS TO PRODUCT DESIGN 2023

ERASMUS+ Blended Intensive Programme (BIP)



universidade de aveiro departamento de engenharia de materiais e cerâmica

materials science and technology that enable job ready skills

polymeric and composite



reuse of industrial wastes for a circular design

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traditional and emerging processing plastic technologies

advanced characterization of polymeric materials



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design-oriented sustainable plastic manufacturing

OUR APPROACH

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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



pcferreira@ua.pt

Virtual lectures - June - July In Aveiro - 20th - 26th July

Report and virtual presentation 4th, 11th and 13th September



Application deadline -5th May, 2023

5 days in Aveiro, Portugal

SUSTAINABLE PLASTICS - FROM FEEDSTOCKS TO PRODUCT DESIGN

- 41 hours virtual component
 40 hours short-term 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/software used for sustainable plastics' products design, compounding, characterization and manufacturing

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

PROGRAM DETAILS

- Polymers, blends and composites
- Recycling and Circular Economy
- Biodegradable polymers: types, properties and actual market
- Biopolymers/bioplastics structural 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
- CAD design I
- CAD design II
- CAD design III
- Brainstorm I
- Brainstorm II
- Brainstorm III
- 5 days project

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Edificio 09 Campus Universitário de Santiago 3810-193 Aveiro Portugal

September

July

- Preparation of deliverables
- Preparation of deliverables
- Final presentation



APPLICATION FORM - 2023

Sustainable Plastics - from feedstocks to product design

Please send application to Paula Ferreira pcferreira@ua.pt Deadline – 5th May 2023

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