



demac

universidade de aveiro  
departamento de engenharia  
de materiais e cerâmica

# SUSTAINABLE PLASTICS - FROM FEEDSTOCKS TO PRODUCT DESIGN

## ERASMUS+ Blended Intensive Programme (BIP)



polymeric and composite materials science and technology that enable 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



### 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

- 16 spots available (+4 local places)
- International and multicultural learning environment
- Multidisciplinary and creative approach



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Virtual lectures - 16th May - 13th July  
In Aveiro - 20th - 26th July  
Preparation & Output - 5th, 7th and 12th September



Application deadline - 29th April

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

May

16th - Polymers and Blends  
18th - Composites  
23rd - Recyclable polymers  
25th - Biodegradable Polymers  
30th - Circular Economy

June

1st - Ecodesign  
6th - Polymer processing technologies  
8th - Additive Manufacturing  
13th - Introduction to Plastic Characterization  
15th - Mechanical properties  
20th - Thermal analysis and wettability  
22nd - Electrical and other properties  
27th - Sustainable life cycle assessment  
29th - CAD design I

July

4th - CAD design II  
6th - Brainstorm I  
11th - Brainstorm II  
13th - Brainstorm III

September

5th - Preparation of deliverables  
7th - Preparation of deliverables  
12th - Final presentation



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