



Online

Bio-based Materials for Future Proof Textiles

Do you want to be part of the transition to a biobased textile industry? Are you interested to understand how biobased materials can lever a systematic change in the current linear economy? You will dive into the world of biobased materials for textile applications, from growing the needed biomass and producing the biobased materials to designing a garment following biobased design principles. Being part of the learning community will allow you to explore the benefits and challenges associated with biobased materials and the factors that influence their production, design, and use.

Target group

This online course is intended for professionals involved in all stages of the textile sector who are looking to learn more about biobased materials and how they could integrate them into their daily practice to create systemic change. For instance:

- Agri-food experts who are looking for the valorisation of residual flows for textiles.
- Designers and product developers working in textile and fashion companies.
- Buyers as well as sustainability managers in the textile industry.

If you have doubts whether you belong to the target group or have enough relevant basic knowledge, please don't hesitate to contact us!

Results

After following this online course you are expected to:

- Recognise the need to transition to a biobased society
- Understand the different textile value chains
- Recognise all fibre production pathways
- Examine ways to innovate

Date 6 Nov - 15 Dec 2023

Location Online

Teachers Dieuwertje de Wagenaar (WUR)
Paulien Harmsen (WUR)
Siet Sijtsma (WUR)
Jeroen van den Eijnde (ArtEZ)
Daniëlle Bruggeman (ArtEZ)

Outline and topics

The course is a mixture of online lectures and diverse assignments developed by experts from Wageningen University & Research and guest lectures from ArtEZ. The course will run for 6 weeks with self-learning activities like short knowledge clips, readings, assignments, recap questions. We also created a series of podcasts that will guide you through the world of biobased materials and their application in the textile industry. There will be ample time to discuss the issues of importance with your peers via discussion forums.



Programme

In this course you will embark on a journey to explore the world of biobased materials for textile applications. From exploring available biobased materials and their properties, to designing a garment following sustainable design approaches.

Module 1 | Biobased Textile Industry

- We will start by explaining the current state of the industry; exploring textile value chains, and how important it is to shift away from the linear make-use-dispose model.

Module 2 | Biobased Design

- In this module we will explore the design considerations and potential applications of biobased materials in textiles. But to understand how we can change the design, we need to have a more detailed view of the materials.

Module 3 | Biobased Materials

- In this module you will learn about the differences (and their opportunities) between fibres and materials, especially their properties and characteristics.

Module 4 | Systemic Change

- Finally, we will discuss methods and tools for creating systemic change.

Practical information



€ 495,- per person for the industry and € 395,- for PhD students.



Max. 50 participants.



Based on your attendance you will receive a certificate after the programme is finished.

Registration

Enrollment is possible until 1 October 2023, or if the maximum number of participants is reached. Register via wur.eu/academy.

[Register](#)

Wageningen Academy

We develop and organise courses for professionals, based on Wageningen University & Research expertise.

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