

# CERTIFICATE OF PARTICIPATION

iversity hereby certifies that **Ms Maida Romera Branchat** has participated in the following course from April 2024 to November 2024:

## Concepts of Sustainable Bioeconomy

This course consisted of 6 sections that provided concepts and perspectives related to the bioeconomy and integrated multiple examples of biobased value chains and webs, sustainability assessment tools and digitalisation approaches for the transition towards a sustainable biobased economy. Additionally, it highlighted the importance of innovation, inter- and transdisciplinary and systems thinking, and governance frameworks to foster the bioeconomy.

The following questions were addressed:

- What is bioeconomy and which are the principles and sectors related to this concept?
- How can bioeconomy contribute to sustainability?
- What is the vision of sustainability that we want and how can bioeconomy be part of a societal transformation?
- How is bioeconomy implemented in the practice?
- What are examples of biobased value chains and webs in the bioeconomy?
- What approaches exist for the sustainability analysis in the bioeconomy?
- How can digitalisation contribute to the bioeconomy?
- Why does bioeconomy require systems thinking, inter- and transdisciplinarity?
- What is the importance of innovation for the bioeconomy? Is it only about technological innovation?
- What are the different types of actors and their roles in the bioeconomy?



UNIVERSITÄT  
HOHENHEIM



Co-funded by the  
Erasmus+ Programme  
of the European Union



iversity  
Part of **SPRINGER NATURE**

iversity.org is a higher education online platform, enabling a global community of learners to study with excellent professors from all over the world. This certificate does not affirm that the student was enrolled at the mentioned institution(s) or confer any form of degree, grade or credit. The course did not verify the identity of the student.

# Course content listing

Ms Maida Romera Branchat has completed the following content.



## I. Bioeconomy concepts

1. What is bioeconomy? Definitions and history; 2. Sustainability & bioeconomy; 3. Normative dimensions of the bioeconomy



## II. Biobased value chains and webs

4. Biobased value chain I – Agriculture; 5. Biobased value chain II – Waste; 6. Biobased value chain III – Microorganisms and Algae



## III. Measuring sustainability in the bioeconomy

7. How to measure sustainability in bioeconomy: Life-cycle sustainability assessment; 8. Techno-economical assessment (TEA) and drivers of innovation



## IV. Bioeconomy in the digital era

9. Bioeconomy and digitalization



## V. Inter- and transdisciplinarity, innovation and governance for the transition towards a sustainable bioeconomy

10. Inter- and transdisciplinarity in bioeconomy; 11. Innovation systems and knowledge to thrive the bioeconomy; 12. Governance of the bioeconomy



UNIVERSITÄT  
HOHENHEIM



Co-funded by the  
Erasmus+ Programme  
of the European Union

