MODULE MAP, DP in Information and Communication Technology, Bioeconomy
Academic year 2022-2023

Core competence, 165 cr in total (incl. Thesis)

Profiling competence, 75 cr in total

1st module / 22.8.-14.10.

2nd module / 24.10.-16.12.

3rd module / 9.1.-10.3.

4th module / 13.3.-5.5.

Summer period
8.5.-31.8.

BEBEP22A2

Working in Bioeconomy
Ari Hietala

- Digitalized Bioeconomy
- Programming and Information Network Basics
- Algebra
- Introduction to Communication 1
- Finnish 1

eBioeconomy
Johanna Salmia

- Responsible Circular Bioeconomy
- Digital Services
- Microcontrollers
- Professional English 1
- Geometry and Linear Algebra
- Finnish 2

Bioeconomy Value Chains
Johanna Salmia

- Bioeconomy Value Chains and Network
- Databases
- Chemistry
- Introduction to Communication 2
- Professional English 2
- Finnish 3

Data Analytics
Anne-Mari Järvenpää

- DF Data-based Decision Making and Data Analytics tools
- DF Project Work
- DF Data Processing and Analysis with Python
- Finnish 4

Work Placement
Johanna Salmia

BEBEP21A2

Circular Economy
Anne-Mari Järvenpää

- Circular Economy Principles
- Management and Finance
- Innovation Methods
- Project Management

IoT Platforms
Ari Hietala

- Basics of IoT Platforms
- IoT Project
- Design Thinking
- Professional Communication

Smart Sensors
Ari Hietala

- Smart Systems and Sensors
- Sensor Systems Project
- Electricity and Magnetism
- Differential Calculus

Cloud Services
Johanna Salmia

- Principles of Cloud Services
- User Interface Design and Usability
- Cloud Services Project
- Applied Physics
- Integral Calculus

Startup Business School
School of Entrepreneurship and Business

BEBEP20X2
BEBEP20A2

Management and Responsible Procurement
Johanna Salmia

- Team Work Management and Finance
- Value Driven Procurement
- Lean as the Cornerstone of Efficiency
- Management and Responsible Procurement Project

GIS and Smart Logistics
Anne-Mari Järvenpää

- GIS
- Logistics
- Smart Logistics Project

3D Modelling and Printing
Ari Hietala

- 3D Modelling and Printing

Development Project
Anne-Mari Järvenpää

- Development Project

Professional skills / Other studies, e.g., Campusonline

Work Placement, Johanna Salmia

Professional Skills / Other studies, e.g. Campusonline

Final thesis, Anne-Mari Järvenpää