Study Programme – Bachelor of Science in Sustainability and Systemic Transition

1° SEMESTER | 2° SEMESTER | 3° SEMESTER | 4° SEMESTER | 5° SEMESTER | 6° SEMESTER

LEVELING MODULE

- Mathematics
- Accounting
- Effective study
- Civic-education text comprehension
- Italian

MODELS, CONTEXTS AND SYSTEMS

Introduction to global sustainability
(6 ECTS)
- Planetary challenges
- Digital society
- Well-being, equality and equal opportunities

Systems thinking and regenerative economy
(4 ECTS)
- Foundations and tools of systems thinking
- Macroeconomic models and circular economy

Natural resources ad energy systems
(8 ECTS)
- Ecosystems and resources
- Energy systems

Environmental and territorial challenges
(10 ECTS)
- Climate, adaptation and mitigation
- Sustainable cities and territories
- Sustainable food systems

Behaviors and inclusion
(4 ECTS)
- Behaviorial economics and sustainability
- Social innovation and inclusion

Responsible governance and change management
(4 ECTS)
- Governance and human rights
- Financial resources and change management

IMPACT ASSESSMENT AND MITIGATION

Resilient societies
(4 ECTS)
- Welfare and pension systems
- Risks and insurance systems

Impacts of energy and sustainable mobility
(6 ECTS)
- Impacts of the energy system
- Sustainable mobility

Sustainable materials and waste management
(6 ECTS)
- Sustainable materials
- Circular waste management

Life-Cycle Analysis and management
(4 ECTS)
- Life-Cycle Analysis (LCA)
- Value-chain management

Well-being and social impact
(4 ECTS)
- Social impact assessment
- Safe and fair working environment

Environmental regulations and assessments
(6 ECTS)
- Applied environmental law
- Environmental impact assessment and strategic environmental assessment

Certifications
(4 ECTS)
- Product or service certification
- Organizational certifications

ALL MACRO-COMPETENCES (REFERENCE CONTEXTS)

Internship
(16 ECTS)
3 months

Elective modules
(16 ECTS)

Bachelor Thesis
(14 ECTS)

DATA COLLECTION AND ANALYSIS

Information systems
(6 ECTS)
- Data Literacy
- GIS and territorial analysis
- Visualization of environmental-territorial and socio-economic data

Research methods for sustainability
(6 ECTS)
- Qualitative methods
- Quantitative methods

DESIGN AND MANAGEMENT OF SUSTAINABILITY MEASURES

Participatory lab
(6 ECTS)
- Co-design and stakeholder engagement
- Innovation lab – Sustainability Hackathon

Management and financing of the transition
(6 ECTS)
- Financing the transition
- Managing the transition

Sustainability report
(4 ECTS)

Participatory projects and innovation
(8 ECTS)
- Eco-design and innovation
- Project laboratory
- Innovation lab – Sustainability Hackathon

Energy and LCA in the built environment
(4 ECTS)
- Territorial energy planning
- Life-Cycle Analysis applied to the built environment

International cooperation and climate risks
(4 ECTS)
- Cooperation and sustainable development
- Climate-risk management

ATTITUDE AND RELATIONSHIP

English
(6 ECTS)

Effective communication
(4 ECTS)

Interdisciplinary communication
(4 ECTS)
- Digital storytelling for sustainability
- Interdisciplinary design lab

Communication and leadership for the transition
(6 ECTS)
- Inclusive communication and awareness-raising
- Sustainable entrepreneurship
- Ethical and transformative leadership

July 2026 edition

SUPSI

Teaching is mainly delivered in italian. However, an English-language module is offered in the first year, and from the second year onwards, progressively as the semesters advance, several modules are thaught in English.