Advanced Consultancy Degree

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

This curriculum prepares learners to lead large-scale sustainability consultancy practices, drive industry-wide transformation initiatives, and establish new consulting methodologies.

EQF Level 7 | 165.5 ECTS | 33 Modules | Work-Based Learning: 1655 hours

# Programme Overview

**Role Focus:** Advisory services and solution bridging

**Target Audience:** Senior consulting professionals seeking advanced degree-level expertise in sustainability transformation leadership and large-scale consulting practice development

**Learning Approach:** EQF Level 7 professional development program with 165.5 ECTS, combining theoretical knowledge with practical application through structured learning and workplace integration.

# Assessment Framework

**Primary Method:** Advanced consulting degree portfolio

**Assessment Components:**

**• Large-scale transformation project:** 45%

**• Consulting methodology innovation:** 30%

**• Industry practice contribution:** 25%

**Rationale:** Degree programs require significant original contribution to consulting practice and large-scale transformation capability

# Delivery Framework

|  |  |
| --- | --- |
| Total Contact Hours | 1026 hours |
| Self-Study Hours | 1424 hours |
| Work-Based Hours | 1655 hours |
| Work-Based Learning | Integrated |

# Module Structure

## Module 1: Introduction to Digital Sustainability

|  |  |
| --- | --- |
| ECTS Credits | 0.5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 12.5 hours |
| Contact Hours | 3 hours |
| Self-Study Hours | 4 hours |
| Workplace Hours | 5 hours |

**Description:** Core sustainability concepts and their intersection with technology systems for digital professionals

### Learning Outcomes:

**Knowledge:** Pioneer new approaches to foundational concepts of introduction to digital sustainability and their application to professional consulting and organizational advisory services within sustainability applications.

**Skills:** Lead transformational professional application of introduction to digital sustainability to support advisory services and solution bridging in organizational contexts.

**Competence:** Lead strategic transformations of professional responsibilities involving introduction to digital sustainability while ensuring professional standards and stakeholder value.

## Module 2: Sustainability Assessment and Benchmarking

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Evaluate organizational sustainability performance against relevant benchmarks

### Learning Outcomes:

**Knowledge:** Establish methodological analytical frameworks for sustainability assessment and benchmarking within advisory services and solution bridging contexts within sustainability applications.

**Skills:** Create breakthrough professional application of sustainability assessment and benchmarking to support advisory services and solution bridging in organizational contexts.

**Competence:** Shape industry practices through consulting engagement involving sustainability assessment and benchmarking while ensuring professional standards and stakeholder value.

## Module 3: Sustainability Frameworks and Standards

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Overview of major sustainability frameworks, regulations, and standards

### Learning Outcomes:

**Knowledge:** Create original implementation strategies for sustainability frameworks and standards in professional consulting and organizational advisory services within sustainability applications.

**Skills:** Establish new practices in management strategies for sustainability frameworks and standards to support advisory services and solution bridging in organizational contexts.

**Competence:** Influence sector-wide professional responsibilities involving sustainability frameworks and standards while ensuring professional standards and stakeholder value.

## Module 4: Digital Circular Business Models

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Design business models that leverage digital technologies for circular economy

### Learning Outcomes:

**Knowledge:** Synthesize multi-disciplinary evaluation methodologies for digital circular business models relevant to advisory services and solution bridging within sustainability applications.

**Skills:** Innovate solutions for professional application of digital circular business models to support advisory services and solution bridging in organizational contexts.

**Competence:** Drive systemic change in professional responsibilities involving digital circular business models while ensuring professional standards and stakeholder value.

## Module 5: Sustainable ICT Procurement and Policy

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Develop policies and practices for sustainable technology procurement

### Learning Outcomes:

**Knowledge:** Conceptualize advanced integration approaches for sustainable ict procurement and policy within professional consulting and organizational advisory services within sustainability applications.

**Skills:** Research and develop management strategies for sustainable ict procurement and policy to support advisory services and solution bridging in organizational contexts.

**Competence:** Lead strategic transformations of professional responsibilities involving sustainable ict procurement and policy while ensuring professional standards and stakeholder value.

## Module 6: AI for Sustainable Decision-Making

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 7 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Using AI tools to support sustainability decisions in organizations

### Learning Outcomes:

**Knowledge:** Pioneer new approaches to optimization principles for ai for sustainable decision-making in advisory services and solution bridging within sustainability applications.

**Skills:** Lead transformational data-driven approaches to ai for sustainable decision-making to support advisory services and solution bridging in organizational contexts.

**Competence:** Shape industry practices through professional responsibilities involving ai for sustainable decision-making while ensuring professional standards and stakeholder value.

## Module 7: Large Language Prompt Design for Sustainability Data Science

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Design effective prompts for large language models applied to sustainability data contexts

### Learning Outcomes:

**Knowledge:** Establish methodological strategic applications of large language prompt design for sustainability data science for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Create breakthrough data-driven approaches to large language prompt design for sustainability data science to support advisory services and solution bridging in organizational contexts.

**Competence:** Influence sector-wide professional responsibilities involving large language prompt design for sustainability data science while ensuring professional standards and stakeholder value.

## Module 8: Sector-specific Green IT Applications

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 7 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Specialized green IT approaches for different industry sectors

### Learning Outcomes:

**Knowledge:** Create original advanced methodologies for sector-specific green it applications within advisory services and solution bridging within sustainability applications.

**Skills:** Establish new practices in technical implementation of sector-specific green it applications to support advisory services and solution bridging in organizational contexts.

**Competence:** Drive systemic change in professional responsibilities involving sector-specific green it applications while ensuring professional standards and stakeholder value.

## Module 9: Systematic Innovation for Sustainability Challenges

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 7 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Apply structured innovation methodologies to develop breakthrough sustainability solutions

### Learning Outcomes:

**Knowledge:** Synthesize multi-disciplinary specialized knowledge of systematic innovation for sustainability challenges for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Innovate solutions for technical implementation of systematic innovation for sustainability challenges to support advisory services and solution bridging in organizational contexts.

**Competence:** Lead strategic transformations of professional responsibilities involving systematic innovation for sustainability challenges while ensuring professional standards and stakeholder value.

## Module 10: Ethics and Governance in Digital Innovation

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Evaluate ethical implications of digital systems and ensure inclusive governance

### Learning Outcomes:

**Knowledge:** Conceptualize advanced specialized knowledge of ethics and governance in digital innovation for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Research and develop ethical governance of ethics and governance in digital innovation to support advisory services and solution bridging in organizational contexts.

**Competence:** Shape industry practices through professional responsibilities involving ethics and governance in digital innovation while ensuring professional standards and stakeholder value.

## Module 11: Circular Economy for Digital Systems

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Comprehensive circular economy principles and lifecycle thinking for sustainable digital system design and management

### Learning Outcomes:

**Knowledge:** Pioneer new approaches to specialized knowledge of circular economy for digital systems for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Lead transformational professional application of circular economy for digital systems to support advisory services and solution bridging in organizational contexts.

**Competence:** Influence sector-wide professional responsibilities involving circular economy for digital systems while ensuring professional standards and stakeholder value.

## Module 12: Sustainable Digital Transformation Strategy

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Develop holistic strategies for sustainability-focused digital transformation

### Learning Outcomes:

**Knowledge:** Establish methodological specialized knowledge of sustainable digital transformation strategy for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Create breakthrough professional application of sustainable digital transformation strategy to support advisory services and solution bridging in organizational contexts.

**Competence:** Drive systemic change in professional responsibilities involving sustainable digital transformation strategy while ensuring professional standards and stakeholder value.

## Module 13: Applied Ethics in AI for Sustainability

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Address ethical considerations in AI applications for sustainability challenges

### Learning Outcomes:

**Knowledge:** Create original specialized knowledge of applied ethics in ai for sustainability for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Establish new practices in ethical governance of applied ethics in ai for sustainability to support advisory services and solution bridging in organizational contexts.

**Competence:** Lead strategic transformations of professional responsibilities involving applied ethics in ai for sustainability while ensuring professional standards and stakeholder value.

## Module 14: Data Ethics and Governance in Practice

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Implement ethical data governance approaches for sustainability initiatives

### Learning Outcomes:

**Knowledge:** Synthesize multi-disciplinary specialized knowledge of data ethics and governance in practice for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Innovate solutions for data-driven approaches to data ethics and governance in practice to support advisory services and solution bridging in organizational contexts.

**Competence:** Shape industry practices through professional responsibilities involving data ethics and governance in practice while ensuring professional standards and stakeholder value.

## Module 15: Collaborative Tools for Green Innovation

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Leverage collaborative platforms to drive sustainable innovation processes

### Learning Outcomes:

**Knowledge:** Conceptualize advanced specialized knowledge of collaborative tools for green innovation for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Research and develop professional application of collaborative tools for green innovation to support advisory services and solution bridging in organizational contexts.

**Competence:** Influence sector-wide consulting engagement involving collaborative tools for green innovation while ensuring professional standards and stakeholder value.

## Module 16: Circular Economy Digital Applications

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 7 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Using digital tools to enable circular business practices and resource loops

### Learning Outcomes:

**Knowledge:** Pioneer new approaches to specialized knowledge of circular economy digital applications for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Lead transformational professional application of circular economy digital applications to support advisory services and solution bridging in organizational contexts.

**Competence:** Drive systemic change in consulting engagement involving circular economy digital applications while ensuring professional standards and stakeholder value.

## Module 17: Work-based Sustainability Project

|  |  |
| --- | --- |
| ECTS Credits | 10 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 250 hours |
| Contact Hours | 62 hours |
| Self-Study Hours | 87 hours |
| Workplace Hours | 100 hours |

**Description:** Apply sustainability knowledge in real-world workplace settings

### Learning Outcomes:

**Knowledge:** Establish methodological specialized knowledge of work-based sustainability project for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Create breakthrough management strategies for work-based sustainability project to support advisory services and solution bridging in organizational contexts.

**Competence:** Lead strategic transformations of professional responsibilities involving work-based sustainability project while ensuring professional standards and stakeholder value.

## Module 18: Circular Economy and Lifecycle Thinking

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Analyze product lifecycles and propose circular redesign strategies

### Learning Outcomes:

**Knowledge:** Create original specialized knowledge of circular economy and lifecycle thinking for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Establish new practices in professional application of circular economy and lifecycle thinking to support advisory services and solution bridging in organizational contexts.

**Competence:** Shape industry practices through professional responsibilities involving circular economy and lifecycle thinking while ensuring professional standards and stakeholder value.

## Module 19: Big Data for Environmental Intelligence

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Leverage big data technologies to analyze environmental patterns and trends

### Learning Outcomes:

**Knowledge:** Synthesize multi-disciplinary specialized knowledge of big data for environmental intelligence for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Innovate solutions for data-driven approaches to big data for environmental intelligence to support advisory services and solution bridging in organizational contexts.

**Competence:** Influence sector-wide professional responsibilities involving big data for environmental intelligence while ensuring professional standards and stakeholder value.

## Module 20: Advanced Visualisation for Sustainability Reporting

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Create effective data visualizations to communicate sustainability performance

### Learning Outcomes:

**Knowledge:** Conceptualize advanced specialized knowledge of advanced visualisation for sustainability reporting for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Research and develop data-driven approaches to advanced visualisation for sustainability reporting to support advisory services and solution bridging in organizational contexts.

**Competence:** Drive systemic change in professional responsibilities involving advanced visualisation for sustainability reporting while ensuring professional standards and stakeholder value.

## Module 21: Data Analytics for Sustainability

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Use data tools to derive actionable sustainability insights

### Learning Outcomes:

**Knowledge:** Pioneer new approaches to specialized knowledge of data analytics for sustainability for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Lead transformational data-driven approaches to data analytics for sustainability to support advisory services and solution bridging in organizational contexts.

**Competence:** Lead strategic transformations of professional responsibilities involving data analytics for sustainability while ensuring professional standards and stakeholder value.

## Module 22: Machine Learning and Predictive Modeling

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 7 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Develop predictive models to assess sustainability scenarios

### Learning Outcomes:

**Knowledge:** Establish methodological specialized knowledge of machine learning and predictive modeling for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Create breakthrough data-driven approaches to machine learning and predictive modeling to support advisory services and solution bridging in organizational contexts.

**Competence:** Shape industry practices through professional responsibilities involving machine learning and predictive modeling while ensuring professional standards and stakeholder value.

## Module 23: AI-Driven Environmental Risk Modelling

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Apply AI and machine learning to model and mitigate environmental risks

### Learning Outcomes:

**Knowledge:** Create original specialized knowledge of ai-driven environmental risk modelling for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Establish new practices in data-driven approaches to ai-driven environmental risk modelling to support advisory services and solution bridging in organizational contexts.

**Competence:** Influence sector-wide professional responsibilities involving ai-driven environmental risk modelling while ensuring professional standards and stakeholder value.

## Module 24: Blockchain for Sustainability Traceability

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 7 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Explore the use of blockchain technology for traceable, transparent sustainability practices

### Learning Outcomes:

**Knowledge:** Synthesize multi-disciplinary specialized knowledge of blockchain for sustainability traceability for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Innovate solutions for technical implementation of blockchain for sustainability traceability to support advisory services and solution bridging in organizational contexts.

**Competence:** Drive systemic change in professional responsibilities involving blockchain for sustainability traceability while ensuring professional standards and stakeholder value.

## Module 25: Human-Centered Design for Sustainable Tech

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Apply human-centered design approaches to create sustainable and inclusive digital technologies

### Learning Outcomes:

**Knowledge:** Conceptualize advanced specialized knowledge of human-centered design for sustainable tech for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Research and develop professional application of human-centered design for sustainable tech to support advisory services and solution bridging in organizational contexts.

**Competence:** Lead strategic transformations of consulting engagement involving human-centered design for sustainable tech while ensuring professional standards and stakeholder value.

## Module 26: Green Blockchain Applications

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 7 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Energy-efficient blockchain implementations for sustainability use cases

### Learning Outcomes:

**Knowledge:** Pioneer new approaches to specialized knowledge of green blockchain applications for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Lead transformational technical implementation of green blockchain applications to support advisory services and solution bridging in organizational contexts.

**Competence:** Shape industry practices through professional responsibilities involving green blockchain applications while ensuring professional standards and stakeholder value.

## Module 27: Systems Architecture for Sustainability

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Design IT systems aligned with circular economy and low-impact principles

### Learning Outcomes:

**Knowledge:** Establish methodological specialized knowledge of systems architecture for sustainability for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Create breakthrough technical implementation of systems architecture for sustainability to support advisory services and solution bridging in organizational contexts.

**Competence:** Influence sector-wide professional responsibilities involving systems architecture for sustainability while ensuring professional standards and stakeholder value.

## Module 28: Low-Carbon Cloud Infrastructure

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Design and implement energy-efficient cloud computing solutions

### Learning Outcomes:

**Knowledge:** Create original specialized knowledge of low-carbon cloud infrastructure for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Establish new practices in technical implementation of low-carbon cloud infrastructure to support advisory services and solution bridging in organizational contexts.

**Competence:** Drive systemic change in professional responsibilities involving low-carbon cloud infrastructure while ensuring professional standards and stakeholder value.

## Module 29: DevOps and Sustainable Deployment

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Implement efficient and sustainable software deployment practices

### Learning Outcomes:

**Knowledge:** Synthesize multi-disciplinary specialized knowledge of devops and sustainable deployment for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Innovate solutions for technical implementation of devops and sustainable deployment to support advisory services and solution bridging in organizational contexts.

**Competence:** Lead strategic transformations of professional responsibilities involving devops and sustainable deployment while ensuring professional standards and stakeholder value.

## Module 30: Energy-Efficient Software Architecture

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Design software architectures optimized for energy efficiency

### Learning Outcomes:

**Knowledge:** Conceptualize advanced specialized knowledge of energy-efficient software architecture for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Research and develop technical implementation of energy-efficient software architecture to support advisory services and solution bridging in organizational contexts.

**Competence:** Shape industry practices through professional responsibilities involving energy-efficient software architecture while ensuring professional standards and stakeholder value.

## Module 31: Digital Twin and Smart Systems for Green Transition

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Apply digital twin technology to model and optimize sustainable systems

### Learning Outcomes:

**Knowledge:** Pioneer new approaches to specialized knowledge of digital twin and smart systems for green transition for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Lead transformational technical implementation of digital twin and smart systems for green transition to support advisory services and solution bridging in organizational contexts.

**Competence:** Influence sector-wide professional responsibilities involving digital twin and smart systems for green transition while ensuring professional standards and stakeholder value.

## Module 32: Sustainable IT Strategy

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 7 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Strategic approaches to embedding sustainability in IT operations

### Learning Outcomes:

**Knowledge:** Establish methodological specialized knowledge of sustainable it strategy for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Create breakthrough management strategies for sustainable it strategy to support advisory services and solution bridging in organizational contexts.

**Competence:** Drive systemic change in professional responsibilities involving sustainable it strategy while ensuring professional standards and stakeholder value.

## Module 33: Green Software Engineering

|  |  |
| --- | --- |
| ECTS Credits | 5 |
| EQF Level | 6 (Program: 7) |
| Total Workload | 125 hours |
| Contact Hours | 31 hours |
| Self-Study Hours | 43 hours |
| Workplace Hours | 50 hours |

**Description:** Techniques for environmentally-friendly software development

### Learning Outcomes:

**Knowledge:** Create original specialized knowledge of green software engineering for professional consulting and organizational advisory services within sustainability applications.

**Skills:** Establish new practices in technical implementation of green software engineering to support advisory services and solution bridging in organizational contexts.

**Competence:** Lead strategic transformations of professional responsibilities involving green software engineering while ensuring professional standards and stakeholder value.

# Recognition Framework

|  |  |
| --- | --- |
| EQF Level | 7 |
| ECTS Transferable | Yes |
| Bologna Compliant | Yes |
| Professional Recognition | Industry recognition for Digital Sustainability Consultant competencies at EQF Level 7 |