Module Descriptions

for the online learning modules of EDUTEX Project – an international education project to increase practical content in textile and garment study programs

Module title	Sustainability and Certifications in Textiles
ECTS credits	Suggestion: 2-3 ECTS credits
Workload and its composition	≈90 h (60 h self-study; 30 h contact time with fellow students and lecturer)
Learning objectives, trained competencies	Upon completion of this module, students · capable of following international conversations and developments about sustainable practices; · can manage to evaluate how to focus on conscious textile approaches for their own work surroundings and career choices; · have a deeper understanding of how we got to the current state sustainable demands for the textile business and what might come in the future; · are capable of understanding the differences of the programs mentioned; · can manage to evaluate the worth of the certifications for their future businesses; · have a deeper understanding of how the certification landscape works and might develop further; · are capable of understanding why certifications can help sustainable approaches; · can manage to have an overview to the several aspects of social and environmental topics in certifications; · have a deeper understanding of how to apply conscious practices to their studies; · are capable of understanding a variety of business models; · Students can enable their knowledge to consult textile and fashion businesses; · Students have a deeper understanding of how to use digital opportunities for business ideas.
Level	Bachelor and Master programs with focus on textile and garments.
Teaching and learning methods	Blended learning format with online material in the form of online learning cards on an online platform and a case study combined with meetings in class with lecturers (online learning cards, lectures, forums, chat and messaging, virtual working group, self-study, exercises). Only online distance learning is also possible but needs more technical preparation for online meetings.
Methods and duration of examination	Weekly meetings to cover the tasks of the case study and presentations of results by the students to everybody. Students should work and present in groups.
Content	Learning cards with the following topics: • Sustainability 101 for Textile Businesses • Sustainability Businesses and Futures • Textile Certifications - Basics • Textile Certifications - Environmental and Social Aspects • Life Cycle Assessment • Sustainable Project Management • Sustainable Development Goals • Sustainability Report Unit • The Footprint of Humanity
Recommended literature	References and additional recommended literature can be found at the end of each learning card.

Module title	Chemical Management
ECTS credits	Suggestion: 2-3 ECTS credits
Workload and its composition	≈90 h (60 h self-study; 30 h contact time with fellow students and lecturer)
Learning objectives, trained competencies	Upon completion of this module, students are capable of explaining the benefits of adopting good chemical management practices in a factory; they have an understanding of the benefits of inventorying chemicals; have an idea about all the 16 standard sections and learn to find out information about a chemical from the Safety Data Sheet (SDS); have an understanding of chemical hazards and hazard bands; are capable of assessing chemical risk in a factory; can select and implement measures for exposure control and personal protection; can differentiate between MRSL and RSL; have a deeper understanding of root cause analysis and the significance of using it for a sustainable solution; are capable of ensuring good practices in chemical storage; can relate to the basic steps in training development and can put a chemical management system into practice.
Level	Bachelor and Master programs with focus on textile and garments.
Teaching and learning methods	Blended learning format with online material in the form of online learning cards on an online platform and a case study combined with meetings in class with lecturers (online learning cards, lectures, forums, chat and messaging, virtual working group, self-study, practical case study, exercises). Only online distance learning is also possible but needs more technical preparation for online meetings.
Methods and duration of examination	Weekly meetings to cover the tasks of the case study and presentations of results by the students to everybody. Students should work and present in groups.
Content	Learning cards with the following topics: • Introduction to Chemical Management • Mapping of Chemicals and Chemical Flows • Introduction to Chemical inventory management • Safety Data Sheet (SDS) • Introduction to Chemical Hazards • Effects of Exposure to Chemicals • Chemical Risk Assessment – Approach and Methods • Chemical Risk Control – Engineering Control and PPE (to be revised) • Introduction to MRSL, RSL and Chemicals of Concern • Root Cause Analysis • Common Good Practices in Safe Storage and Transport of Chemicals • Put Chemical Management System into Practice
Recommended literature	References and additional recommended literature can be found at the end of each learning card.

Module title	Energy Efficiency
ECTS credits	Suggestion: 2-3 ECTS credits
Workload and its composition	≈90 h (60 h self-study; 30 h contact time with fellow students and lecturer)
Learning objectives, trained competencies	Upon completion of this module, students · have deeper understanding of the advantages and disadvantages of non-renewable energy; · are capable of explaining the pros and cons of non-renewable energy; · are able to identify the non-renewable energy technologies; · have deeper understanding of the advantages and disadvantages of renewable energy; · are capable of explaining the advantages and disadvantages of renewable energy; · are able to identify the renewable energy technologies; · are able to explain what renewable energy means and its future potential to make this planet clean; · have deeper understanding of the importance of energy conservation; · are capable of practices the energy conservation procedures in all sectors; · are able to define and explain the practices and advantages of energy conservation for a wider stakeholder; · are able to understand and implement the energy conservation acts with its full features; · have deeper understanding of the duties and responsibilities of energy managers; · are capable of implementing energy management practices in all sectors; · are able to define and explain the practices and advantages of energy management for a wider stakeholder; · should understand the basic principles of energy audit; · should conduct energy audit in any process; · should have deeper understanding of the duties and responsibilities of energy auditors
Level	Bachelor and Master programs with focus on textile and garments.
Teaching and learning methods	Blended learning format with online material in the form of online learning cards on an online platform and a case study combined with meetings in class with lecturers (online learning cards, lectures, forums, chat and messaging, virtual working group, self-study, practical case study, exercises). Only online distance learning is also possible but needs more technical preparation for online meetings.
Methods and duration of examination	Weekly meetings to cover the tasks of the case study and presentations of results by the students to everybody. Students should work and present in groups.
Content	Learning cards with the following topics: • Introduction and Summary of the Learning Units • Introduction to Non-Renewable Energy • Introdution to Renewable Energy • Energy Conservation • Energy Management • Energy Audits
Recommended literature	References and additional recommended literature can be found at the end of each learning card.

Module title	Leadership and Project Management
ECTS credits	Suggestion: 2-3 ECTS credits
Workload and its composition	≈90 h (60 h self-study; 30 h contact time with fellow students and lecturer)
Learning objectives, trained competencies	Upon completion of this module, students can differentiate methods and techniques of Project Management and apply these to manage projects. They can develop structures within a project and are able to predict risks and chances of projects. They can critically consider a changing environment within a project.
Level	Bachelor and Master programs with focus on textile and garments.
Teaching and learning methods	Blended learning format with online material in the form of online learning cards on an online platform and a case study combined with meetings in class with lecturers (online learning cards, lectures, forums, chat and messaging, virtual working group, self-study, exercises). Only online distance learning is also possible but needs more technical preparation for online meetings.
Methods and duration of examination	Weekly meetings to cover the tasks of the case study and presentations of results by the students to everybody. Students should work and present in groups.
Content	Learning cards with the following topics: • Understanding Projects • Planning a Project • Scheduling the Project • Organizing the Project Team • Analyzing Project Risks • Project Manager Daily Activities • Phases of Change • Review Meeting • Stand-Up Meeting • Retrospective and Team Work • Time-Boxing • Stakeholder Orientation • Stakeholder Analysis • Working with Stakeholders • Project Debriefing – Introduction • Project Debriefing - Workshop • Project Benefits and Business Case • Triple Bottom Line • National Cultures • Storytelling • Stage Gate Process • SMART Objectives • Positive Error Culture • Planning Poker Method
Recommended literature	References and additional recommended literature can be found at the end of each learning card.

Module title	Project Organization and Methodologies
ECTS credits	Suggestion: 2-3 ECTS credits
Workload and its composition	≈90 h (60 h self-study; 30 h contact time with fellow students and lecturer)
Learning objectives, trained competencies	Upon completion of this module, students know the basics about agile management, know the differences and are able to use various project management tools, can differentiate between deliverables, project work, objectives and goals, are able to fulfill a milestone trend analysis and know how to use communication and digital collaboration tools for a successful project organization.
Level	Bachelor and Master programs with focus on textile and garments.
Teaching and learning methods	Blended learning format with online material in the form of online learning cards on an online platform and a case study combined with meetings in class with lecturers (online learning cards, lectures, forums, chat and messaging, virtual working group, self-study, exercises). Only online distance learning is also possible but needs more technical preparation for online meetings.
Methods and duration of examination	Weekly meetings to cover the tasks of the case study and presentations of results by the students to everybody. Students should work and present in groups.
Content	Learning cards with the following topics: • Agile Methodologies • Agile Values and Principles • Backlog • Burn Down Chart • Communication Media • Controlling and Reporting • Core Qualities • Cumulative Flow Chart • Detailing the Deliverable • Detailing the Project Work • Digital Collaboration • Kanban • Milestone Trend Analysis • Understanding Objectives and Goals
Recommended literature	References and additional recommended literature can be found at the end of each learning card.