

No	Intended Learning Outcome	Subject Specific Criteria 08																									
		Knowledge and Understanding					Engineering Analysis			Investigations		Engineering Practice										Social Competences					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	Have the responsibility to work professionally both independently and in a team in the field of forestry and tropical environments including social entrepreneurship	*																									
2	Able to master theoretical concepts and basic principles of science and technology in the field of forestry and tropical environments, as well as other related sciences		*																								
3	Able to identify important elements and integrate them in the field of forestry and the tropical environment based on scientific principles			*	*	*																					
4	Able to apply logical, critical, systematic and innovative thinking in applying values according to the field of forestry and tropical environmental expertise						*	*																			
5	Able to lead, collaborate in a team, and be responsible for achieving personal and group performance as well as communicating verbally and non-verbally																					*	*	*	*	*	*
6	Able to conduct studies on the development of science and technology in the field of forestry and the tropical environment using databases and other sources of information								*	*	*																
7	Able to plan, implement, organize and evaluate activities in the forestry and tropical environment sectors											*	*	*													
8	Able to select and apply appropriate instruments, processes and methods for solving problems in the forestry sector and humid tropical environments.													*	*	*											
9	Able to carry out practical technical standards in the field of forestry and humid tropical environments by working efficiently, communicatively, professionally and responsibly																*	*	*								

1. Knowledge and Understanding

- SSC1 know and understand the principles of natural sciences, social science, mathematics, economics and engineering their discipline is based on;
- SSC2 have a coherent knowledge in their discipline including knowledge of the latest findings in their discipline;
- SSC3 know concepts of identification and safeguarding of quality in their respective fields of work;
- SSC4 know the essential legal regulations relating to their discipline;
- SSC5 are aware of the further multidisciplinary context of agriculture, forestry, or landscape architecture and neighbouring fields.

2. Engineering Analysis

- SSC6 have the required knowledge and understanding to identify and formulate problems arising in agriculture, forestry, food science, or landscape architecture (which may contain aspects stemming from areas other than their field of specialisation);
- SSC7 are able to apply different methods orientated on fundamentals – such as mathematical, statistical, and experimental (laboratory) analysis;
- SSC8 are qualified to plan and conduct respectively suitable experiments, interpret the data, and draw conclusions.

3. Investigations

- SSC9 are able to pursue literature searches in a targeted way and to use data bases and other sources of information;
- SSC10 are qualified to carry out assessments on the basis of comparisons with literature references and plausibility considerations.

4. Engineering Practice

- SSC11 have the skills to solve practical problems;
- SSC12 can combine theory and practice to solve subject-specific practical problems;
- SSC13 are able to select and apply suitable devices, processes, and methods;
- SSC14 have developed an understanding of applicable techniques and methods and their limitations;
- SSC15 recognise the technical, health and safety, social, ecological, and legal implications of engineering practice in their field of scientific expertise;
- SSC16 can apply methods relevant for their profession;
- SSC17 are aware of the usability and the restrictions of concepts and solution strategies;
- SSC18 can resort to experience with problems, topics, and processes relating to their scientific discipline;
- SSC19 are able to consult adequate literature and information sources and coordinate the work of experts.

5. Social Competences

- SSC20 are able to work efficiently on their own and as team members;
- SSC21 are qualified to apply different methods to communicate effectively with the scientific community and the society as a whole ;scientific community and the society as a whole;
- SSC22 feel obliged to act in accordance with professional ethics and the responsibilities and standards of practical engineering;
- SSC23 are aware of the methods of project management and business practices such as risk and change management and understand their limitations;
- SSC24 recognise the necessity of independent life-long learning and are qualified to do so;
- SSC25 depending on the professional field they have competences in the fields of management and marketing, in particular project management, acquisition, personnel management, controlling etc,
- SSC26 adequately competent in the area of communication, e.g. presentations or moderation

SSC 08 Bachelor degree

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SSC26	adequately competent in the area of communication, e.g. presentations or moderation