School of Education
Course Unit Syllabus

Level of qualification:
Short cycle (TESP)
Study cycle:
Environmental Protection Systems

Course Unit: **223511 – Quality, Conservation and Soil Protection**

Year 1 **Semester 2** **ISCED Code: 712** **ECTS: 3.5**

Tipe of Course Unit: Compulsory **Delivery Mode:** Face-to-face **Language of Instruction:** Portuguese

COURSE COORDINATOR: Isabel Maria de Brito Raposo Guerreiro

HOURS OF WORK

TOTAL HOURS	Contact Hours								Hours in autonomous work
	Theory	Theory and practice	Practical and laboratory work	Field work	Seminar	Internship	Tutorial guidance	Other	
87.5		**5**	**35**						**47.5**

Prerequisites (if applicable): Not applicable

LEARNING OUTCOMES (knowledge, skills and competence)

Basic concepts of soil's components, and their physical and chemical properties that are very important to understand the issues related to soil behaviour. Recognize the different functions of the soil. Identify the different parameters of soil quality assessment.

CONTENTS

1. Constituents of the soil.
2. Soil functions.
3. Soil behavior: physical and chemical properties.
4. Soil quality assessment: physical and chemical parameters.

DEMONSTRATION OF THE CONTENTS COHERENCE WITH THE COURSE UNIT'S LEARNING OUTCOMES

Objective to equip students with the basic knowledge of Soils, necessary for their professional activity in the field of quality and soil conservation.

It is intended that the student grasp the fundamental concepts so as to be able to apply them in the specialty subjects.

TEACHING METHODOLOGIES

Theory will be taught in class through oral explanation and audiovisual material. Besides theory, there are also practical classes. In these classes, students will apply their knowledge by given exercises and under conditions drawn similar to real situations. The information about this course is available on ESAB`s moodle

DEMONSTRATION OF THE COHERENCE BETWEEN THE TEACHING METHODOLOGIES AND THE LEARNING OUTCOMES

With the purpose of allowing an integrated and applied perspective, and considering the organization of the course lectures, the fundamentals of the studied subjects are presented in the theoretical lectures, and then applied in the practical lectures oriented to applied conservation tecniques of the concepts.

EVALUATION METHODS

The assessment of this syllabus is made in a continuous way or through a final written exam.

MAIN BIBLIOGRAPHY

Amarilis de Varennes. (2003). Produtividade dos solos e ambiente. 1ª edição, Escolar Editora.

COM (2006) 232 final:proposta de Diretiva do parlamento Europeu e do Conselho que estabelece um quadro para a proteção do solo. Comissão das Comunidades Europeias

Year of implementation: 2016/2017 | Date of approval by the Technical-Scientific Board: