Course: Sensor Application Specialisation — credits: 5

Course code	SEVM19SAS
Name	Sensor Application Specialisation
Study year	2024-2025
ECTS credits	5
Language	English
Coordinator	P.M. Gomes Lourenco
Modes of delivery	Lecture Project-based learning
Assessments	Sensor Application Specialisation - Assignment

Learning outcomes

At the end of this module the student is able to:

- Explain the physical, chemical or biological principles of smart sensors systems suitable for the specialisation field.
- Based on current scientific literature, choose the best type of smart system suitable for detection and/or analysis of a given signal relevant for the application considered.
- Describe smart sensor system requirements specific to the application domain.
- Describe how a smart system solution constitutes an innovation in the specialisation domain, if possible using a solution related with their plan for the graduation project.
- Describe the impact of an innovation on the responsible use of natural resources and the needs of all relevant components of biological systems and human societies, if possible using a solution related with their plan for the graduation project.

Content

The student chooses for a specialisation in one of the following areas: health, energy or high-tech systems.
The student is expected to bring content to the course, either in the form of presentations of selected peer reviewed papers, discussion of state-of-the-art innovations or visits to the professional field. Other options can be discussed with the lecturer.

Included in programme(s)

Smart Systems Engineering

School(s)

Institute of Engineering

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