

## Course: Advanced Filter

credits: 2

<b>Course code</b>	ELVH17AAF	<b>Modes of delivery</b>	Assignment
<b>Name</b>	Advanced Filter		Individual supervision
<b>Study year</b>	2020-2021		Lecture
<b>ECTS credits</b>	2		Practical / Training
<b>Language</b>	English	<b>Assessments</b>	Advanced Filter - Assignment
<b>Coordinator</b>	B.D. Williams		

### Learning outcomes

After this study unit a student can:

- design a standard digital filter.
- use the Kalman filter in a data smoothing context, and also in a vehicle navigation context by using Sensor Fusion techniques.

### Content

As an extension to DSP techniques you will learn how to design an advanced filter. We will be handling specifically the KALMAN filter in the study unit, but will also recapitulate on a method on how to design common filters.

### Included in programme(s)

Electrical Engineering Major Sensor Technology

### School(s)

Institute of Engineering

share your talent. move the world.

Although every effort has been taken to ensure the accuracy of the information in the ECTS Course Catalogue, we cannot guarantee that the content and the information contained in it is always up-to-date, complete or true. Accordingly, no rights can be derived from the contents of the catalogue.