

Vak: Mathematics 4

credits: 4

Vakcode ELVH17AMATH4
Naam Mathematics 4
Studiejaar 2023-2024
ECTS credits 4
Taal Engels
Coördinator J.M. Wilson

Werkvormen Hoorcollege
Toetsen Mathematics 4 - Schriftelijk, organisatie
ToetsCentrum

Leeruitkomsten

The student can:

- use partial derivatives to solve problems in error analysis and optimisation;
- solve a linear system of equations using row operations and matrix inversion, including finding approximate solutions;
- use homogeneous coordinates to perform combined affine transformations of vectors;
- analyse a dynamical system using determinants to find eigenvalues and eigenvectors; and
- apply the singular value decomposition to a collection of vector valued data points to find the subspace containing most of the variance.

Inhoud

This course presents linear algebra and partial derivatives including some applications important to sensor engineers.

Opgenomen in opleiding(en)

Elektrotechniek Major Sensor Technology

School(s)

Instituut voor Engineering

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