

<b>Name of the course</b>	<b>Elements of engineering mathematics</b>
Number of instruction hours	20
Outline of course/module content	Topics include ordinary and partial differential equations, linear systems and corresponding numerical methods, matrix decomposition, vector and matrix norms, eigenvalues and eigenvectors, and their applications in numerical analysis. A connection with concrete engineering problems and their solving is stressed, as well as a connection with nonlinear problems. An application of suitable computer software packages in numerical and symbolic calculations is demonstrated.
Description of instruction methods	Lecturing , demonstrations, consultations
Description of course/module requirements	seminar, presentation, report, oral exam