

Code	<b>ECE551</b>
Name	<b>Scientific Computing with MATLAB</b>
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate / anytime
Semester	Fall
Type	Elective
Prerequisites	-
Content	Scripts, variables, plots, vectors, matrices, indexing, functions, for and while loops, structure and cell arrays, debugging in MATLAB. Root-finding methods, approaches used in solving systems of linear equations, least-squares fitting of a curve to data, interpolation, numerical integration and derivation, and optimization, and apply these concept in MATLAB.