Linear algebra

Academic Year: (2018 / 2019)   **Review date: 16-04-2018**

Department assigned to the subject: Mathematics Department

Coordinating teacher: CUESTA RUIZ, JOSE ANTONIO

Type: Basic Core ECTS Credits : 6.0

Year : 1 Semester : 1

Branch of knowledge: Engineering and Architecture

DESCRIPTION OF CONTENTS: PROGRAMME

1. Complex numbers.
2. Systems of linear equations.
3. Vector spaces.
4. Matrix algebra.
5. Eigenvalues and eigenvectors. Matrix diagonalization.
6. Orthogonality.
7. Least squares.
8. Singular value decomposition.

% end-of-term-examination: 60

% of continuous assessment (assigments, laboratory, practicals…):   40

BASIC BIBLIOGRAPHY

  - David C. Lay Linear algebra and its applications, Addison Wesley, 2014