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| Course Title | Linear Algebra elements | | | |
| Course Code | MAS029 | | | |
| Course Type | Compulsory | | | |
| Level | Undergraduate | | | |
| Year / Semester | 2 nd year / 4 th semester | | | |
| ECTS | 5 | Lectures / week | 2 times for 1&1/2 hours | Laboratories / week 1 hour per week |
| Course Purpose and Objectives | Introduction to the basic principles of Linear Algebra. Linear spaces, linear independency, base, dimension, inner product spaces. Linear systems of equations, matrices determinants, eigenvalues, eigenvectors. Gram-Schmidt normalisation. Introduction to Analytic Geometry. | | | |
| Learning Outcomes | The students get familiar with basic principles of Linear Algebra. | | | |
| Prerequisites | None | Required | None | |
| Course Content | Linear spaces, linear independency, base, dimension, inner product spaces. Linear systems of equations, matrices, determinants, eigenvalues, eigenvectors. Gram-Schmidt normalisation. Introduction to Analytic Geometry. | | | |
| Teaching Methodology | Lectures with brief theory and many examples. | | | |
| Bibliography | <ul style="list-style-type: none"> ·Γ. Γεωργίου, <i>Γραμμική Άλγεβρα</i>, Καντζιηλάρης, Λευκωσία (1998). ·Χ. Σοφοκλέους, <i>Στοιχεία Γραμμικής Άλγεβρας</i> | | | |
| Assessment | Mid Exam (40%), Final Exam (60%) | | | |
| Language | Greek | | | |