

COMPUTATIONAL MATHEMATICS

PART 1: LINEAR ALGEBRA

MOODLE 1: SOLVING A SYSTEME OF LINEAR EQUATION

MOODLE 2: VECTOR SPACE

MOODLE 3: EIGENVALUES AND EIGENVECTORS

MOODLE 4: ORTHOGONALITY AND INNER PRODUCT SPACE

PART 2: NUMERICAL METHODS

MOODLE 5: ITERATIVE METHODS FOR SOLVING LINEAR SYSTEMS OF EQUATIONS

MOODLE 6: LINEAR REGRESSION

MOODLE 7: INTEGRATION AND SIOLVING ODEs

► **References:**

- David Lay, **Linear Algebra and its Applications**
- Larson, Edwards & Falvo, **Elementary Linear Algebra,**