

Code: 1640 Linear Algebra**Degree:** all 1st cycles, except Landscape Architecture**Curricular Year:** 1st**Semester Course:** 1st**Credits:** 6 ECTS**Compulsory****Language:** Portuguese/English**Responsible:** Jorge Orestes Lasbarrères Cerdeira**Other lecturer(s):** Ana Isabel Boavida de Carvalho Mesquita, Isabel Maria de Jesus Martins, Maria Emília Rodrigues Ferreira Pinto and Maria Isabel Varejão de Oliveira Faria**Web Site:** <http://www.isa.utl.pt/home/node/3942>**1. Contact hours:****Lecture/Practicals 70 Others 14 Total 84****2. Objectives:**

Comprehension of the main concepts from Linear Algebra, skills on matrix calculus, improving of mathematical maturity.

3. Programme:matrix calculus
vector spaces
inner product, orthogonal projections
introduction to linear programming
eigenvectors and eigenvalues**4. Bibliography:****Main Bibliography**

Text (to be written)

Other Bibliography

Howard Anton and Chris Rorres, Elementary Linear Algebra with Applications (9th Edition), John Wiley & Sons, 2005. ISBN: 978-0-471-66959-3

5. Assessment:

Tests and/or final exams

6. Estimated Workload:

168	Hours
-----	-------

7. Last Update:

7/7/2010
