

GRADUATE – Disciplines Menu
Doctorate and Masters in Economics

DISCIPLINE: Introduction to Measure and Integration	CODE: MDPMAT018
ACRONYM: IMI	
PROFESSOR: Paulo Klinger Monteiro	WORKLOAD: 40h CREDIT HOUR: 4
MANDATORY: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	COURSE: <input type="checkbox"/> M <input type="checkbox"/> D <input checked="" type="checkbox"/> MD
PREREQUISITES: Real Analysis Course	
CONCENTRATION AREA: Mathematics	
STUDY PLAN Course in Introduction to Measure and Integration <ol style="list-style-type: none"> 1) Sigma-algebras 2) Signed measures 3) Lebesgue's Integral 4) Dominated convergence theorem, monotone convergence theorem. Radon—Nykodin theorem, Fubini's theorem. 5) L^p espaces 	
GOALS Be able to use correctly the techniques of measure theory and Lebesgue integration.	
BIBLIOGRAPHY <p>Medida e integração, Pedro Jesus Fernandes.</p> <p>Measure Theory vol. I, The irreducible minimum, D. H. Fremlin.</p>	