



MATHEMATICAL ANALYSIS B

Enrollment year	2009/2010
Academic year	2009/2010
Regulations	DM270
Academic discipline	MAT/05 (MATHEMATICAL ANALYSIS)
Department	DEPARTMENT OF CIVIL ENGINEERING AND ARCHITECTURE
Course	ENVIRONMENTAL ENGINEERING
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	2nd semester (01/03/2010 - 04/06/2010)
ECTS	6
Lesson hours	60 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	BONETTI ELENA (titolare) - 6 ECTS
Prerequisites	Required by the faculty for beginners
Learning outcomes	<p>The course deals with the notions of calculus required for a faculty of engineering: differential and integral calculus for scalar and vectorial real functions, the infinitesimal calculus for curves and surfaces, and differential equations. The student is expected to tackle problems such as optimization, applications in geometry and mechanics, modelling simple situations by use of differential systems, using Stokes and Gauss' theorems to describe balance laws.</p>
Course contents	<p>Differential calculus Integral calculus Differential equations</p>
Teaching methods	

**Reccomended or required
readings**

Bramanti, Pagani, Salsa. Matematica, Calcolo infinitesimale e algebra lineare. Ed. Zanichelli.

Further information

