Course Descriptions None 2019-2020

Course Title	Analysis II
Course Code	EBC1032
ECTS Credits	6,5
Assessment	None

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
4	3-2-2020	3-4-2020	X/E		X/E		
5	14-4-2020	5-6-2020	X/E		X/E		

Level	Intermediate
Coordinator	Dries Vermeulen For more information:d.vermeulen@maastrichtuniversity.nl
Language of instruction	English
Goals	Learn the concepts and techniques in the field of integral calculus that are prerequisite for 'probability theory', '(applied) statistics', 'mathematical economics' and 'operations research'. Can check the topological properties of a subset of the plane. Know how to prove that a function of two variables is continuous. Be able to apply the Implicit Function of Theorem. Know how to prove that a function of two variables has a directional derivative or is (totally) differentiable. Learn to solve constrained and unconstrained optimisation problems.
Description	Functions of more than one variable, series, multiple integrals, integral calculus of functions of one variable.
Literature	Syllabus.
Prerequisites	- Differential calculus for functions of one variable (as, for instance, in the course Analysis 1). - Elementary linear algebra (as, for instance, in the course Linear Algebra). An advanced level of English.
Teaching methods	Lecture / Assignment
Assessment methods	Written Exam
Evaluation in previous academic year	For the complete evaluation of this course please click http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM

This course belongs to the following programme / specialisation

Bachelor Econometrics and Operations Research	Year 1 Compulsory Course(s)