Course Descriptions None 2025-2026

Course Title	Data Science
Course Code	BENC2011
ECTS Credits	5,0
Assessment	Whole/Half Grades

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
5	7-4-2026	29-5-2026		X		X	L

Level	Introductory
Coordinator	Rohan Nanda For more information:r.nanda@maastrichtuniversity.nl
Language of instruction	English
Goals	Learn about the data science lifecycle; * Apply Python as a programming language to perform data analysis tasks; * Become acquainted with the data manipulation process and how to achieve this in Python; * Get introduced to basic machine learning algorithms and their applications, network science techniques for modeling, analyzing and reasoning about relationships between entities * Understand and apply data interpretation and visualization tools
Description	This course offers a practical introduction to data science, beginning with Python fundamentals and progressing through data processing with Pandas—from basic manipulations to cleaning and refining datasets. You'll learn to explore data, extract insights through exploratory analysis, and apply machine learning methods like classification and regression. Through hands-on projects, you'll develop the skills to gather, prepare, and analyze real-world data, enabling you to build effective data-driven solutions.
Literature	Weekly readings would be provided during the course.
Prerequisites	BENC1002 Calculus BENC1004 Linear Algebra
Keywords	
Transitional Regulations	
Teaching methods	PBL / Presentation / Lecture / Assignment / Groupwork / Skills
Assessment methods	Participation / Oral Exam / Assignment / Presentation
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 Business Engineering	Year 2 Elective Courses
SBE Exchange Bachelor	Bachelor Exchange Courses
SBE Exchange Master	Bachelor Exchange Courses