

## Course Descriptions None 2025-2026

Course Title	Data Science																
Course Code	BENC2011																
ECTS Credits	5,0																
Assessment	Whole/Half Grades																
Period	<table><thead><tr><th>Period</th><th>Start</th><th>End</th><th>Mon</th><th>Tue</th><th>Wed</th><th>Thu</th><th>Fri</th></tr></thead><tbody><tr><td>5</td><td>7-4-2026</td><td>29-5-2026</td><td></td><td>X</td><td></td><td>X</td><td>L</td></tr></tbody></table>	Period	Start	End	Mon	Tue	Wed	Thu	Fri	5	7-4-2026	29-5-2026		X		X	L
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Level	Introductory																
Coordinator	Rohan Nanda For more information:r.nanda@maastrichtuniversity.nl																
Language of instruction	English																
Goals	<p>Learn about the data science lifecycle;</p> <ul style="list-style-type: none"><li>* Apply Python as a programming language to perform data analysis tasks;</li><li>* Become acquainted with the data manipulation process and how to achieve this in Python;</li><li>* Get introduced to basic machine learning algorithms and their applications, network science techniques for modeling, analyzing and reasoning about relationships between entities</li><li>* Understand and apply data interpretation and visualization tools</li></ul>																
Description	<p>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.</p>																
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 <a href="http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM">http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM</a>																
This course belongs to the following programme / specialisation	<table><tbody><tr><td>Bachelor Business Engineering</td><td>Year 2 Elective Courses</td></tr><tr><td>SBE Exchange Bachelor</td><td>Bachelor Exchange Courses</td></tr><tr><td>SBE Exchange Master</td><td>Bachelor Exchange Courses</td></tr></tbody></table>	Bachelor Business Engineering	Year 2 Elective Courses	SBE Exchange Bachelor	Bachelor Exchange Courses	SBE Exchange Master	Bachelor Exchange Courses										
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