

## Course Descriptions None 2023-2024

Course Title	Programming																
Course Code	EBC2016																
ECTS Credits	6,5																
Assessment	Whole/Half Grades																
Period	<table border="1"> <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>2</td> <td>30-10-2023</td> <td>15-12-2023</td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table>	Period	Start	End	Mon	Tue	Wed	Thu	Fri	2	30-10-2023	15-12-2023	X	X		X	
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2	30-10-2023	15-12-2023	X	X		X											
Level	Intermediate																
Coordinator	Andre Berger For more information:a.berger@maastrichtuniversity.nl																
Language of instruction	English																
Goals	<p>This course will introduce you to the fundamentals of computer programming. It is designed for students with no prior programming experience. The goals of the course are to learn how to use the fundamental building blocks of a programming language and to get practice in the several steps of algorithm and software development. By the end of the course you should have a strong understanding of the fundamentals of Computer Science and the Java programming language.</p> <ul style="list-style-type: none"> <li>* Students understand the basic principles of computer programming and data structures.</li> <li>* Students apply their programming skills to translate a verbal assignment into computer language.</li> <li>* Students analyse the performance of their solutions through experimentation.</li> <li>* Students select appropriate programming techniques for verbal assignments.</li> <li>* Students explain the structure and methods of their programming solutions.</li> <li>* Students develop programs and discuss these in teams, with the aim of improving programs in terms of clarity and efficiency.</li> </ul>																
Description	<p>You will first learn the basic principles of programming: data types, variables, statements, assignments, control statements, loops, file input/output, arrays, methods, objects, classes, etc. We will use Java, a high level, cross-platform, and well-constructed computer programming language to demonstrate those principles. Further, you will acquire skills and get practice in the several steps of basic algorithm and software development: from a description of the problem, to an idea about an approach and justified data structures, and finally the translation of the approach into an implemented programme.</p> <p>Formative assessment: Feedback by tutors on programming skills and assignments  Summative assessment: Exam and assignments  Instructional approach: Lectures, tutorials, and assignments</p>																
Literature	Recommended literature : introductory textbooks on JAVA Programming (examples listed in course manual).																
Prerequisites	<p>TRANSITIONAL REGULATIONS:  This course has been cancelled within the bachelor Business Analytics.</p> <p>The following rule applies to bachelor Business Analytics students who started the programme prior to academic year 2023-2024.  TRANSITIONAL REGULATION (EBC2016):  Replace the course with EBC2198 Fundamentals of Programming</p> <p>See the Transitional Regulations section in the Bachelor Education and Examination Regulations for more information.</p>																
Teaching methods	PREREQUISITES: Analysis I, Linear Algebra, Optimisation, strong mathematical skills.																
Assessment methods	PBL / Lecture / Assignment / Groupwork																
Evaluation in previous academic year	Attendance / Participation / Written Exam / Assignment																
This course belongs to the following programme / specialisation	<p>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></p> <table border="1"> <tr> <td>Bachelor Econometrics and Operations Research</td> <td>Year 2 Compulsory Course(s)</td> </tr> <tr> <td>Transitional Regulations</td> <td>See prerequisites</td> </tr> </table>	Bachelor Econometrics and Operations Research	Year 2 Compulsory Course(s)	Transitional Regulations	See prerequisites												
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