

Course Descriptions None 2021-2022

Course Title Networks and Simulation
Course Code EBC2184
ECTS Credits 6,5
Assessment None

Period	Start	End	Mon	Tue	Wed	Thu	Fri
N/A	1-1-1900	1-1-1900					

Level no level
Coordinator For more information:
Language of instruction English

Goals Students will learn:
1. How to use networks to represent complex data
2. How to simulate networks and processes on them
3. How to apply computational tools of network sciences
4. How to interpret patterns and other findings in network analysis

Description Network science is a thriving and increasingly important cross-disciplinary domain that focuses on the representation, analysis, and modeling of complex social, biological and technological systems as networks or graphs. Modern data sets can often be represented by some kind of network. Networks can be temporal, with edges and nodes appearing, disappearing and changing their characteristics over time. Nodes can have locations, directions, memory, demographic characteristics, content, and preferences. Edges can have lengths, directions, capacities, costs, durations, and types. You will learn how to model and understand networks and their rich data using the mathematics of networks and the computational tools for identifying and explaining the patterns they contain. You will also learn about the wide range of applications of network science and some of the insights this field has allowed us to gain.

Literature

Prerequisites

Keywords

Teaching methods

Assessment methods

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 Analytics

Year 3 Elective Course(s)