Minor Data Driven Decision Making in Business (MDD)
MDDF - Foundation Math & Stats in R, Python
Part of Minor Data Driven Decision Making in Business

1.	General information
Name of study unit	*Foundation MDD*
Code for study unit	DATDRD02
Degree programme and target group	*Minor Data Driven Decision Making (MDD)*
Teaching period	P1/P3
ECTS credits and study load	**Study load: 2.5 ECTS**
Entry requirements for study unit	

Within the ECTS credits and study load row:

Study load: 2.5 ECTS

	Number of hours on the clock:
Scheduled contact time	15.75
Time for self-study (including	54.25
Total study load (hours)	70

2.	Content and organization
Professional task	A report showing a mastery in the scripting of Python or other relevant software in solving complex statistical problems.
Exit qualifications / Programme Learning Outcomes (PLO)	WT1 Use the process of thoughtful evaluation to formulate a reasonable conclusion deliberately. WW7 Produce management information from various data sources in an international business environment.
General description	This module is both a refresher course in basic mathematics and statistics, and an introduction to use Python for solving basic mathematical and statistical problems.
Cohesion	This module provides relevant knowledge and skills in for one to learn Data Science. The knowledge and skills are necessary for the execution of the project in this minor.
Mandatory participation	NA
Maximum number of participants	30
Compensation options	N/A
Activities and/or instructional formats	*Lecturers, Self-study, workshops, team assignment(s) .*
Required literature / description of learning material	All material will be open source or made available on #Onderwijs Online. The material of this module is based on the following book: Nield, T. (2022). *Essential Math for Data Science*. O'Reilly Media, Inc. ISBN: 9781098102937
Required software / required materials	Python. Anaconda and Spyder. Instructions will be provided in a separate document.

Extra contributions (TER 2.7)	N/A

3.	**_Examination_**
Name (modular) exam	_Mathematics & Statistics in R or Python_
Code (modular) exam	DATDRD02 [TOETS-02]
Assessment criteria	After studying this module, students should be able to: • Relate set theory to the concept of probability. • Interpret, modify and sketch mathematical operations. • Compute and solve mathematical equations • Compute, manipulate, solve, and plot Mathematical functions, and graphs. • Use Python, or other data science script languages.
Exam and modular exam format(s) (type of exam)	Report
Individual / group	Individual
Number of examiners	1
Exam period	P1/P3
Resit period	P1/P3
Duration exam	N/A
Permitted resources / aids	N/A
Minimum result	5.5
Weight factor of modular exam	100%
Method of enrolment for exam/enrolment period	Participation is equal to enrolment.
Discussion and review	Yes. Contact the responsible lecturers once the grades are communicated.

Lecture/contact hours (webinars)											
		Period 1/3									
Lecture week	1	2	3	4	5	6	7	8	9	10	
		3	3	3	3	3	3	3			

Changes compared to last year	several changes in most parts of the Study Unit.
Date from which the SU will no longer be offered	NA