

<u>Description of Course Unit</u> according to the ECTS User's Guide 2015

Course unit title	Science Management
Course unit code	MNJ6205
Type of course unit (compulsory, optional)	Compulsory
Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)	Bachelor
Year of study when the course unit is delivered (if applicable)	2021/2022
Semester/trimester when the course unit is delivered	Semester 5
Number of ECTS credits allocated	90,56 hours ~ 3,234 ECTS (1 ECTS = 28 hours per semester)
Name of lecturer(s)	Nindya Nuriswati Laili
Learning outcomes of the course unit	CLO-1 Students will be able identify the need for quantitative managerial decision-making tools to improve decision making in a business context and apply the appropriate tools.
	CLO-2 Students will be able to explain building blocks of quantitative managerial decision-making models.
	CLO-3 Students will be able to solve and analyze quantitative decision-making models using spreadsheets.
	CLO-4 Students will be able to analyze the best solution with respect to changes in the parameters of the problem, and evaluate solutions.
	CLO-5 Students will be able to produce reports and analyzed the problem for a professional audience.
Mode of delivery (face-to-face, distance learning)	Distance Learning
Prerequisites and co-requisites (if applicable)	Business Mathematic Statistics
Course content	 Linear programming Integer programming Transportation, network flow models Project management Nonlinear programming Probability and statistics Decision analysis Queuing analysis

	9. Simulation 10. Forecasting 11. Inventory management.
Recommended or required reading and other learning resources/tools	Book: Taylor, B. W . (2019). <i>Introduction to Management Science</i> . (13th ed.), Prentice Hall.
	Taha, H. A. (2017). Operations Research: An Introduction. (10th ed.), Prentice Hall
	Software: ExcelQM
Planned learning activities and teaching methods	Lecture. Project-Based Learning Drill (practice) Report Preparation and/or Presentation
Language of instruction	Indonesian
Assessment methods and criteria	There are Assignments, Midterms, Final Examination, and Term-Project Presentation. (Appendices □ assessment criteria)