Course title	Machina Lagraing in Duthan
Course title Course code	Machine Learning in Python IP 302
Module coordinator	Cordelia Makartsev
Lecturer	Salma Aziz
Level of course	Bachelor
Recommended	Basic programming and strongly advise taking IP 301
prerequisites	alongside
Type of course	Lecture
Weekly lecture hours	2
(SWS)	2
ECTS credits	2 ECTS
Workload	In total 60 h, 30 h course attendance, 30 h self-study
Assessment (grading; pass/fail)	graded
Regular cycle	Each semester
Language of instruction	English
Contents:	In this class, you will delve into the fundamentals of Python programming and gain the practical know-how for applying Machine Learning in Python to solve problems in diverse areas.
	This course provides an overview of machine learning via Python:
	The basics of Python programming.
	Data Analysis and Visualisations.
	 Implementation of machine learning models, in both supervised and unsupervised contexts.
Learning outcome (competencies):	After having successfully completed the course, the students should:
	 Understand the fundamentals of Python programming, focusing on data science libraries.
	 Be comfortable exploring and visualizing datasets. Be able to apply some machine learning techniques in the Python environment to solve specific problems. Be willing to explore advanced topics and applications in machine learning using Python.
Teaching methods	⊠Lecture
	⊠Exercises □Simulation
	□Video feedback □Others: Please click here for inserting text
Assessment methods	Project work with oral exam
Recommended reading	A. Géron, "Hands-on Machine Learning with Scikit-Learn, Keras & TensorFlow", O'Reilly Media, 2nd Edition, 2019
Additional information	neras & renson iow , O Nelliy Media, 2110 Edition, 2019
Recognition of credits	
recognition of credits	