SINGLE MODULES

Course	SDD	CFU	Hours
Algorithmic Foundations and Programming Skills		**6**	**48**
Algorithms and programming in Python and R for data science	INF/01	3	24
Machine learning	ING-INF/05	2	16
Optimization for machine learning	MAT/09	1	8
Statistical Learning for Data Science		**6**	**48**
Statistical learning	SECS-S/01	2	16
Geo-spatial data analysis	SECS-S/01	2	16
Network data analysis	SECS-S/01	2	16
Supervised and Unsupervised Learning		**6**	**48**
Advanced machine learning	MAT/09	3	24
Deep learning, neural networks, and reinforcement learning	ING-INF/05	3	24
Complex Systems		**6**	**48**
Text mining and NLP	ING-INF/05	2	16
Network and media analysis	FIS/03	2	16
Complex system analysis	FIS/03	2	16
Decision Theory for Data Science		**7**	**56**
Bayesian inference and causal machine learning	SECS-S/01	3	24
Analytics in economics and business	SECS-P/06	3	24
Ethics and law for data science	IUS/01	1	8