

DENOMINAZIONE ATTIVITÀ FORMATIVA		SSD	CFU	ORE	DOCENTE/ESPERTO
<b>MACHINE AND STATISTICAL LEARNING</b>		SECS-S/01	12	96	Sabrina GIORDANO
Moduli coordinati	Contenuti				
Statistical models	Linear models Logit models Survival models Multilevel models	SECS-S/01	2	16	<a href="#">Anthony Cossari</a> (UNICAL) <a href="#">Sabrina Giordano</a> (UNICAL) <a href="#">Mariangela Zenga</a> (UNIMIB)
Data analysis and statistical learning	Cluster Principal component analysis Discriminant analysis Mixture models	SECS-S/01	2	16	<a href="#">Salvatore Ingrassia</a> (UNICT) <a href="#">Daniele Salvatore Tomarchio</a> (UNICT)
Tree-based models	CART Random forest Boosting	SECS-S/01	2	16	<a href="#">Anna Gottard</a> (UNIFI)
Data mining on social media	Social network analysis Performance indexes Customer segmentation	SECS-S/01	1	8	<a href="#">Michelangelo Puliga</a> (LINKALAB) <a href="#">Milena Lopreite</a> (UNICAL)
Text mining	Textual data acquisition Data processing and modelling	SECS-S/01	1	8	<a href="#">Michelangelo Misuraca</a> (UNICAL) <a href="#">Maria Spano</a> (UNINA)
Missing data	Imputation methods	SECS-S/01	1	8	<a href="#">Ilaria Amerise</a> (UNICAL)
Bayesian and neural networks	Artificial neural networks for prediction, classification and modelling	SECS-S/01	2	16	<a href="#">Sara Franceschi</a> (UNISI) <a href="#">Paolo Cozzucoli</a> (UNICAL)

Deep learning on temporal data	Modelling and forecasting	SECS-S/01	1	8	<a href="#">Pier Francesco Perri</a> (UNICAL)
<b>PROGRAMMING SKILLS</b>		<b>SECS-S/01 ING-INF/05</b>	<b>5</b>	<b>40</b>	<b>Sabrina GIORDANO</b>
<b>Moduli coordinati</b>	<b>Contenuti</b>				
Programming with R	ABC of language packages	SECS-S/01	2	16	<a href="#">Sabrina Giordano</a> (UNICAL) <a href="#">Ilaria Amerise</a> (UNICAL)
Programming with Python	ABC of language features	ING-INF/05	3	24	<a href="#">Francesco Lupia</a> (OPEN KNOWLEDGE TECHNOLOGIES)
<b>APPLIED MATHEMATICS, ECONOMICS and BUSINESS</b>		<b>SECS-S/06 MAT/09 SECS-P/06 SECS-P/01</b>	<b>6</b>	<b>48</b>	<b>Domenico DE GIOVANNI</b>
<b>Moduli coordinati</b>	<b>Contenuti</b>				
Risk management	Financial and insurance econometrics	SECS-S/06	2	16	<a href="#">Domenico De Giovanni</a> (UNICAL) <a href="#">Fabio Lamantia</a> (UNICT) <a href="#">Massimiliano Menzietti</a> (UNISA) <a href="#">Marco Pirra</a> (UNICAL)
Revenue management	Capacity control Pricing techniques	MAT/09	1	8	<a href="#">Giovanni Giallombardo</a> (UNICAL)
Machine learning in economics and business	Resampling Validation methods Model selection and regularization	SECS-P/06	2	16	<a href="#">Giuliano Resce</a> (UNIMOL)
Advanced economics	Methods for policy evaluations	SECS-P/01	1	8	<a href="#">Vincenzo Scoppa</a> (UNICAL)

COMPUTER SCIENCE		INF/01	9	72	Giorgio TERRACINA
Moduli coordinati	Contenuti				
Databases	Construction and query (SQL)	ING-INF/05	2	16	<a href="#">Cristian Molinaro</a> (UNICAL) <a href="#">Irina Tributsyna</a> (UNICAL)
Data warehousing	Methods and algorithms for multidimensional data	INF/01	2	16	<a href="#">Giorgio Terracina</a> (UNICAL)
Business intelligence and performance	Business management tools	ING-INF/05	1	8	<a href="#">Alfredo Garro</a> (UNICAL) <a href="#">Alberto Falcone</a> (UNICAL)
Data mining	Algorithms for data mining, sentiment analysis	ING-INF/05	2	16	<a href="#">Giuseppe Manco</a> (CNR) <a href="#">Eugenio Cesario</a> (UNICAL)
Deep learning	Deep learning for text, video and images	INF/01	2	16	<a href="#">Gianluigi Greco</a> (UNICAL) <a href="#">Carlo Adornetto</a> (UNICAL)

DATA MANAGEMENT			4	32	Sabrina GIORDANO
Moduli coordinati	Contenuti				
Data management	Data sources, Data cleaning, Data visualization			16	<a href="#">Stefano Vena</a> (ALTRAMA)
Data protection	New dimension of privacy: from the right to privacy to the protection of personal data			4	<a href="#">Sergio Niger</a> (UNICAL)

Web data	Unconventional sources of data - web scraping			8	<a href="#">Carmelo Origlia</a> (CONTESTI) <a href="#">Luca Gallo</a> (WISH)
Errors in data	Measures and remedies of errors in data			4	<a href="#">Roberta Varriale</a> (Sapienza), <a href="#">Simona Rosati</a> (ISTAT)

EXPERIENCE/LAB/CASES STUDY					
Moduli coordinati	Contenuti			4	72
					<b>Sabrina GIORDANO</b>
Output management	Output visualization and dashboard: Tableau <i>et al</i>			4	<a href="#">Serena Formosa</a> (AC TECHNOLOGY)
Data/output management	Data/Output visualization and web app: Shiny <i>et al</i>			4	<a href="#">Luigi Aceto</a> (GENRE)
Case study	Measure and predict sales through econometric models			4	<a href="#">Nevio Leone</a> (CORE ANALYTICS)
Case study	Data-driven for positioning and advertising plan			4	<a href="#">Enzo Bartalotta</a> (ETHICA)
Case study	A survey on the black economy			4	<a href="#">Elena Console</a> (TEA)
Case study	Business to data and data to business			4	<a href="#">Pierpaolo Cimirro</a> (CERVED)
Case study	Digital marketing: strategic campaigns and advertising			4	<a href="#">Alberto Marra</a> (DIGITOUCH)
Case study	Machine learning for healthcare			4	<a href="#">Alessia Sarica</a> (UNICZ)

Case study	Data science and artificial intelligence for fashion industries			4	<a href="#">Elvira Floridi</a> (LIVETECH)
Case study	Enhancing market research with natural language process techniques			4	<a href="#">Gianluca Tiesi</a> (Ti&Si)
Case study	Blockchain in data analytics			4	<a href="#">Michele De Buono</a> (SCAILAB)
Case study	IoT smart system for energy efficiency			4	<a href="#">Francesco De Vito</a> (ALMASOFT)
Business game	Contextual value analytics for companies			4	<a href="#">Raffaele Anselmo</a> (CRIF) <a href="#">Gennaro Aloe</a> (CRIF)
Case study	Machine learning for public policies			4	<a href="#">Emanuele Ciani</a> (BANCA d'ITALIA)
Case study	Algorithms for fraud prevention and granting credit			4	<a href="#">Francesco Visalli</a> (ALTILIA) <a href="#">Fausto Pupo</a> (ALTILIA)
Case study	Distributed computing with Apache Spark			4	<a href="#">Aristide Cittadino</a> (ACSOFTWARE)
Soft skills	Data storytelling/Team building			4	<a href="#">Lucia Moretti</a> (GOODWILL)
Soft skills	How to prepare for a job interview			4	<a href="#">Alfonso Maggio</a> (FIRE)
<b>TIROCINIO</b>				<b>16</b>	
<b>PROVA FINALE</b>				<b>4</b>	