

DENOMINAZIONE ATTIVITÀ FORMATIVA		SSD	CFU	ORE	DOCENTE/ESPERTO
<b>MACHINE AND STATISTICAL LEARNING</b>		<b>SECS-S/01</b>	<b>12</b>	<b>96</b>	<b>Sabrina GIORDANO</b>
Moduli coordinati	Contenuti				
Statistical models	Linear models Logit models Survival models Multilevel models	SECS-S/01	2	16	<a href="#">Anthony Cossari</a> (UNICAL) (corso di azzeramento su Inferenza Statistica -- 8 ore extra) <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)
Advanced statistical models	Models for longitudinal data and time series	SECS-S/01	1	8	<a href="#">Antonello Maruotti</a> (LUMSSA)
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)
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PROGRAMMING SKILLS		SECS-S/01 ING-INF/05	5	40	Sabrina GIORDANO
Moduli coordinati	Contenuti				
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)

ADVANCED PROGRAMMING SKILLS		INF/01	8	64	Simona PERRI
Moduli coordinati	Contenuti				
Introduction to Java	ABC of the Java language	INF/01	2	16	<a href="#">Francesco Calimeri</a> (UNICAL)
OOP	Introduction to Object Oriented Programming with Java	INF/01	2	16	<a href="#">Simona Perri</a> (UNICAL)
Data structures and algorithms	Fundamentals on Data Structures and Algorithms in Java	INF/01	2	16	<a href="#">Valeria Fionda</a> (UNICAL) – 8 ore <a href="#">Giuseppe Pirrò</a> (UNICAL) – 8 ore
Advanced topics in Java	Persistence, serialization, exceptions, threads	INF/01	2	16	<a href="#">Carmine Dodaro</a> (UNICAL)

DATABASES		INF/01	5	40	Giorgio TERRACINA
Moduli coordinati	Contenuti				
Database design	Conceptual and logical models for database design	INF/01	2	16	<a href="#">Mario Alviano</a> (UNICAL)
Database querying	SQL: how to query databases	INF/01	2	16	<a href="#">Giorgio Terracina</a> (UNICAL)
DBMSs	Overview of the main open source database management systems	INF/01	1	8	<a href="#">Marco Maratea</a> (UNICAL)

ARTIFICIAL INTELLIGENCE		INF/01	6	48	Gianluigi GRECO
Moduli coordinati	Contenuti				
Introduction to neural networks	Basics of neural networks and deep neural networks and keras	INF/01	2	16	<a href="#">Gianluigi Greco</a> (UNICAL)
Advanced topics on neural networks	Advanced architectures for neural networks	INF/01	2	16	<a href="#">Carlo Adornetto</a> (UNICAL) – 8 ore <a href="#">Pierangela Bruno</a> (UNICAL) – 8 ore
Knowledge representation and reasoning	Fundamentals of languages and systems for knowledge representation and automated reasoning	INF/01	1	8	<a href="#">Francesco Ricca</a> (UNICAL)
Temporal reasoning and process intelligence	Basics on temporal reasoning and process intelligence models and tools	INF/01	1	8	<a href="#">Valeria Fionda</a> (UNICAL)

EXPERIENCE/LAB/CASES STUDY		4	72	Sabrina GIORDANO
Moduli coordinati	Contenuti			
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	AI in NTT DATA: vision and experience		4	<a href="#">Francesco La Ruffa</a> (NTT Data)
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="#">Saverio Gravina</a> (DS TECH) <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	Industrial Applications of Artificial Intelligence in Manufacturing and Finance			4	<a href="#">Salvatore Iritano</a> (REVELIS)
Case study	Generative AI to support the systemic management of enterprise-class Application Architectures			4	<a href="#">Antonio Valentino</a> (LUTECH)
Case study	Machine learning for public policies			4	<a href="#">Guido De Blasio</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)
Case study	Geo-spatial analysis of agricultural data			4	<a href="#">Michelangelo Puliga</a> (BLOOMAG)
Soft skills	Data storytelling/Team building			4	<a href="#">Lucia Moretti</a> (GOODWILL)
<b>TIROCINIO</b>				<b>16</b>	
<b>PROVA FINALE</b>				<b>4</b>	