Piano di Studi LM
Artificial Intelligence and Automation Engineering
Classe LM-32
Coorte A.A. 2021/22
Curriculum Intelligent Systems

Primo Anno

denominazione attività formativa/insegnamento	SSD	CFU	Ore	Sem.	TAF	Eventuali Mutuazioni
Automata and queueing systems	ING-INF/04	6	54	I	B	Discrete Event Systems
Advanced digital image processing	ING-INF/03	9	74	I	C	
High performance computer architecture	ING-INF/05	9	72	I	B	
Machine learning	ING-INF/05	6	54	I	B	
Big data	ING-INF/05	6	54	II	B	
Artificial intelligence	ING-INF/05	9	63	II	B	
Models and languages for bioinformatics	INF/01	6	54	II	C	
Network optimization	MAT/09	6	48	II	C	Optimization Laurea Magistrale in Applied Mathematics
Totale CFU dell'anno		57				

Secondo Anno

denominazione attività formativa/insegnamento	SSD	CFU	Ore	Sem.	TAF	Eventuali Mutuazioni
Design of applications, services and systems	ING-INF/05	9	72	I	B	
Neural networks	ING-INF/05	6	54	I	B	
1-2 insegnamenti dal seguente gruppo (1 insegnamento in TAF B; 1 eventualmente in TAF D)						
Bioinformatics	ING-INF/05	6	54	I	B	Foundations and Languages for Bioinformatics (mod. Bioinformatics) Laurea Magistrale in Applied Mathematics
Language processing technologies	ING-INF/05	6	54	I	B	
Tirocinio		9	225	II	F	
Prova finale (tesi)		21			E	
0-2 insegnamenti possono essere scelti dal seguente gruppo come TAF D per un totale di 12 CFU						
Human-centered robotics	ING-INF/04	6	54	I	B	
Multivariable and non-linear control	ING-INF/04	6	48	I	B	Multivariable, non-linear and robust control
Data analysis	ING-INF/04	6	48	II	B	System Identification and Data Analysis Laurea Magistrale in Engineering Management
Decision analysis	ING-INF/04	6	48	II	B	Laurea Magistrale in Engineering Management
Totale CFU dell'anno		63				

Curriculum Robotics and Automation

Primo Anno

denominazione attività formativa/insegnamento	SSD	CFU	Ore	Sem.	TAF	Eventuali Mutuazioni
Discrete event systems	ING-INF/04	9	72	I	B	
Complex dynamic systems	ING-INF/04	6	48	I	B	Differential Equations and Complex Systems (mod. Complex Dynamic Systems) Laurea Magistrale in Applied Mathematics
Human-centered robotics	ING-INF/04	6	54	I	B	
Machine learning	ING-INF/05	6	54	I	B	
Artificial intelligence	ING-INF/05	9	63	II	B	
Mathematical methods for engineering	MAT/05	6	48	II	C	
Network optimization	MAT/09	6	48	II	C	Optimization Laurea Magistrale in Applied Mathematics
System identification and data analysis	ING-INF/04	9	72	II	B	Laurea Magistrale in Engineering Management
Totale CFU dell'anno		57				

Secondo Anno

denominazione attività formativa/insegnamento	SSD	CFU	Ore	Sem.	TAF	Eventuali Mutuazioni
Multivariable, non-linear and robust control	ING-INF/04	9	72	I	B	
Sensors and microsystems	ING-INF/07	6	48	II	C	Laurea Magistrale in Electronics and Communication Engineering
Decision analysis	ING-INF/04	6	48	II	B	Laurea Magistrale in Engineering Management
Tirocinio		9	225	II	F	
Prova finale (tesi)		21			E	
0-2 insegnamenti possono essere scelti dal seguente gruppo come TAF D per un totale di 12 CFU						
Design of applications and services	ING-INF/05	6	48	I	B	Design of applications, services and systems
High performance computer architecture*	ING-INF/05	9	72	I	B	
Advanced computer architectures*	ING-INF/05	6	48	I	B	High performance computer architecture
Bioinformatics	ING-INF/05	6	54	I	B	Foundations and Languages for Bioinformatics (mod. Bioinformatics) Laurea Magistrale in Applied Mathematics
Language processing technologies	ING-INF/05	6	54	I	B	
Neural networks	ING-INF/05	6	54	I	B	
Big data	ING-INF/05	6	54	II	B	
Virtual instrumentation and digital embedded electronics	ING-INF/01	6	48	II	C	Laurea Magistrale in Electronics and Communication Engineering
Digital modelling, design and manufacturing	ING-IND/13	6	54	I	C	Laurea Magistrale in Engineering Management
Totale CFU dell'anno		63				

* in alternativa