

POLITECNICO DI BARI
DIPARTIMENTO DI INGEGNERIA ELETTRICA E DELL'INFORMAZIONE
(DEPARTMENT OF ELECTRICAL AND INFORMATION ENGINEERING)

Direttore del Dipartimento (Head of Department) *prof. Gennaro BOGGIA*

CORSO DI LAUREA MAGISTRALE IN INGEGNERIA INFORMATICA (LM-32)
MASTER DEGREE IN COMPUTER ENGINEERING

Coordinatore (Coordinator) *prof. Michele RUTA*

MANIFESTO DEGLI STUDI A.A. 2023/24

Academic year 2023/24

LIST OF COURSES
ELENCO DELLE DISCIPLINE

First year of cycle 2023

I anno coorte 2023

Curriculum: ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

1° semestre (first semester)			2° semestre (second semester)		
<i>Discipline</i> (courses)	<i>DOCENTE</i> (LECTURER)	<i>CFU</i> (ECTS)	<i>Discipline</i> (courses)	<i>DOCENTE</i> (LECTURER)	<i>CFU</i> (ECTS)
Statistical and Mathematical methods for Artificial Intelligence (AF: affine o integrativo, AD: Attività formative affini o integrative, SSD: MAT/08)	Marina POPOLIZIO	6	Digital business (AF: affine o integrativo, AD: Attività formative affini o integrative, SSD: ING-IND/35)	Umberto PANNIELLO	6
Foundations of machine learning (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Tommaso DI NOIA	6	Agent-based Artificial Intelligence (AF: caratterizzante, AD: Ingegneria Informatica, SSD: ING-INF/05)	Tommaso DI NOIA	6
Computer Vision\1st module: Image Processing (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Andrea GUERRIERO	6	Formal languages and compilers (AF: caratterizzante, AD: Ingegneria Informatica, SSD: ING-INF/05)	Floriano SCIOSCIA	6
Computer Vision\ 2nd module: Artificial Vision (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Francescomaria MARINO	6	Deep Learning (AF: caratterizzante, AD: Ingegneria Informatica, SSD: ING-INF/05)	Vito Walter ANELLI	6
Internet of things (AF: affine o integrativo, AD: Attività formative affini o integrative, SSD: ING-INF/03)	Nicola CORDESCHI	6			
CFU TOTALI (TOTAL NUMBER OF ECTS)		30	CFU TOTALI (TOTAL NUMBER OF ECTS)		24

First year of cycle 2023
I anno coorte 2023

Curriculum: CYBERSECURITY AND CLOUD

1° semestre (first semester)			2° semestre (second semester)		
<i>Discipline</i> (courses)	<i>DOCENTE</i> (LECTURER)	<i>CFU</i> (ECTS)	<i>Discipline</i> (courses)	<i>DOCENTE</i> (LECTURER)	<i>CFU</i> (ECTS)
Cryptography (AF: affine o integrativo, AD: Attività formative affini o integrative, SSD: MAT/03)	Angela AGUGLIA	6	Deep Learning (AF: caratterizzante, AD: Ingegneria Informatica, SSD: ING-INF/05)	Vito Walter ANELLI	6
Control of networks systems (SSD: ING-INF/04) (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/04)	Saverio MASCOLO	6	Digital business (AF: affine o integrativo, AD: Attività formative affini o integrative, SSD: ING-IND/35)	Umberto PANNIELLO	6
Security by Design\ 1st module: Network Security (AF: affine o integrativo, AD: Attività formative affini o integrative, SSD: ING-INF/03)	Giuseppe PIRO	6	Security by Design\ 2nd module: Ethical Hacking Laboratory (AF: affine o integrativo, AD: Attività formative affini o integrative, SSD: ING-INF/03)	Ilaria CIANCI	6
Software architecture and pattern design (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Marina MONGIELLO	6	Secure Programming laboratory (AF: caratterizzante, AD: Ingegneria Informatica, SSD: ING-INF/05)	*	6
Foundations of machine learning (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Tommaso DI NOIA	6			
CFU TOTALI		30	CFU TOTALI		30
(TOTAL NUMBER OF ECTS)			(TOTAL NUMBER OF ECTS)		

First year of cycle 2023
I anno coorte 2023

Curriculum: CYBERPHYSICAL SYSTEMS

1° semestre (first semester)			2° semestre (second semester)		
<i>Discipline</i> (courses)	DOCENTE (LECTURER)	CFU (ECTS)	<i>Discipline</i> (courses)	DOCENTE (LECTURER)	CFU (ECTS)
Software architecture and pattern design (SSD: ING-INF/05)	Marina MONGIELLO	6	Artificial intelligence for automation (ING-INF/04)	Maria Pia FANTI	6
Computer Vision\1st module: Image Processing (SSD: ING-INF/05)	Andrea GUERRIERO	6	Digital business (SSD: ING-IND/35)	Umberto PANNIELLO	6
Computer Vision\ 2nd module: Artificial Vision (SSD: ING-INF/05)	Francescomaria MARINO	6	Digital Programmable Systems (SSD: ING-INF/01)	Giuseppe COVIELLO	6
Foundations of machine learning (SSD: ING-INF/05)	Tommaso DI NOIA	6	Engineered Intelligent systems (SSD: ING-INF/05)	Vincenzo DI LECCE	6
Advanced data acquisition and intelligent data processing (SSD: ING-INF/07)	Attilio DI NISIO	6	Elective course (A scelta dello studente)		6
Satellite systems for remote sensing and geolocation (SSD: FIS/01)	Fabio BOVENGA	6			
CFU TOTALI		30	CFU TOTALI		30
(TOTAL NUMBER OF ECTS)			(TOTAL NUMBER OF ECTS)		



Second year of cycle 2022
Il anno coorte 2022

Curriculum: ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

1° semestre (first semester)			2° semestre (second semester)		
<i>Discipline</i> (courses)	DOCENTE (LECTURER)	CFU (ECTS)	<i>Discipline</i> (courses)	DOCENTE (LECTURER)	CFU (ECTS)
Information retrieval and personalization (AF: caratterizzante, AD: Ingegneria Informatica, SSD: ING-INF/05)	Fedelucio NARDUCCI	6	Elective course		6
Information systems design and Big Data (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Mauro CUCCHETTI	12	Internship		6
Ambient intelligence\1st module: Cyberphysical systems (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Michele RUTA	6	Final Examination		18
Ambient intelligence\1st module: Web intelligence (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Floriano SCIOSCIA	6			
	CFU TOTALI (TOTAL NUMBER OF ECTS)	30		CFU TOTALI (TOTAL NUMBER OF ECTS)	30

Second year of cycle 2022
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Curriculum: CYBERSECURITY AND CLOUD

1° semestre (first semester)			2° semestre (second semester)		
<i>Discipline</i> (courses)	DOCENTE (LECTURER)	CFU (ECTS)	<i>Discipline</i> (courses)	DOCENTE (LECTURER)	CFU (ECTS)
Information Systems Security and Privacy (AF: caratterizzante, AD: Ingegneria Informatica, SSD: ING-INF/05)	Giuseppe MASTRONA RDI	6	Elective course (esame a scelta)		6
Information Systems Design and Big Data (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Mauro CUCCHETTI	12	Internship		6
Ambient Intelligence 1 st module: Cyberphysical Systems (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Michele RUTA	6	Final Examination		18
Ambient Intelligence 2 nd module: Web Intelligence (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Floriano SCIOSCIA	6			
CFU TOTALI (TOTAL NUMBER OF ECTS)		30	CFU TOTALI (TOTAL NUMBER OF ECTS)		30



Second year of cycle 2022
Il anno coorte 2022

Curriculum: CYBERPHYSICAL SYSTEMS

1° semestre (<i>first semester</i>)			2° semestre (<i>second semester</i>)		
<i>Discipline</i> (<i>courses</i>)	DOCENTE (<i>LECTURER</i>)	CFU (<i>ECTS</i>)	<i>Discipline</i> (<i>courses</i>)	DOCENTE (<i>LECTURER</i>)	CFU (<i>ECTS</i>)
Ambient Intelligence 1 st module: Cyberphysical Systems (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Marina MONGIELLO	6	Engineered Intelligent Systems (SSD: ING-INF/05)	Vincenzo DI LECCE	6
Ambient Intelligence 2 nd module: Web Intelligence (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Tommaso DI NOIA	12	Internship		6
Information Systems Design and Big Data (AF: caratterizzante, AD: Ingegneria Informatica, SSD: INGINF/05)	Mauro CUCCHETTI	6	Final Examination		18
Human-Machine Interaction and Data Visualization (AF: caratterizzante, AD: Ingegneria Informatica, SSD: ING-INF/05)	Carmelo Antonio ARDITO	6			
	CFU TOTALI (<i>TOTAL NUMBER OF ECTS</i>)	30		CFU TOTALI (<i>TOTAL NUMBER OF ECTS</i>)	30