

APPENDIX 2 – STUDY PLAN FOR FULL-TIME AND PART-TIME STUDENTS

 Corso di Studio Magistrale in
 Computer Science – LM-18
 Accademic Year 2023-2024

2.A STUDY PLAN FOR FULL-TIME STUDENTS

FIRST YEAR

Course	Didactic Activities		Credits CFU/ECTS				Assessment
	SSD	TAF	Tot	Less	Ex/Lab	Proj	
First semester							
Both Curriculum							
Database Systems	ING-INF/05	b	9	7	2		Exam
Numerical Methods for Computer Science	MAT/08	c	9	7	2		Exam
Formal Methods in Computer Science	INF/01	b	6	4	2		Exam
Information Theory	INF/01	c	6	4	2		Exam
Total Credits			30				

Second semester
CURRICULUM: Artificial Intelligence

Fundamentals of Artificial Intelligence	INF/01	b	9	6	1	2	Exam
Machine Learning	ING-INF/05	b	9	7	2		Exam
Natural Language Processing	ING-INF/05	b	6	4	2		Exam
Computer Vision	INF/01	b	6	4	1	1	Exam
Total Credits			30				

Second semester
CURRICULUM: Security Engineering

Secure Software Engineering	ING-INF/05	b	9	7	1	1	Exam
Urban Security	ING-INF/05	b	6	4	2		Exam
IoT Security	INF/01	b	6	4	2		Exam
Usable Privacy and Security	INF/01	b	9	6	2	1	Exam
Total Credits			30				

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SECOND YEAR

CURRICULUM: Artificial Intelligence

Course	Didactic Activities		Credits CFU/ECTS				Assessment
	SSD	TAF	Tot	Less	Ex/Lab	Proj	
First semester							
Big Data	INF/01	b	6	4	1	1	Exam
Software Engineering for AI-Enabled Systems	INF/01	b	6	4	2		Exam
Semantics in Intelligent Information Access	INF/01	b	6	4	2		Exam
Students' choice		d	12				Exam
Total Credits			30				
Second semester							
Course	SSD	TAF	Tot. Credits		Assessment		
Further Didactic Activities (Internships, seminars)		f	7		Attendance verification		
Advanced Scientific English	L-LIN/12	f	3		Pass/Fail Exam		
Final Assessment		e	20		Final Exam		
Total Credits			30				

CURRICULUM: Security Engineering

Course	Didactic Activities		Credits CFU/ECTS				Assessment
	SSD	TAF	Tot	Less	Ex/Lab	Proj	
First semester							
Project Management for Security	ING-INF/05	b	6	5		1	Exam
Serious Games for Cyber-Security	INF/01	b	6	3	2	1	Exam
Artificial Intelligence for Security	ING-INF/05	b	6	4	1	1	Exam
Students' choice		d	12				Exam
Total Credits			30				
Second semester							
Course	SSD	TAF	Tot. Credits		Assessment		
Further Didactic Activities (Internships, seminars)		f	7		Attendance verification		
Advanced Scientific English	L-LIN/12	f	3		Pass/Fail Exam		
Final Assessment		e	20		Final Exam		
Total Credits			30				

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FURTHER DIDACTIC ACTIVITIES TO BE ACTIVATED

<i>Course</i>	<i>Didactic Activities</i>		<i>Credits CFU/ECTS</i>				<i>Assessment</i>
	<i>SSD</i>	<i>TAF</i>	<i>Tot</i>	<i>Less</i>	<i>Ex/Lab</i>	<i>Proj</i>	
Social Computing	INF/01	d	6	4	1	1	Exam
Cyber-Security Capstone Project	ING-INF/05	d	6	3	1	2	Exam
Cloud Computing	INF/01	d	6	3	1	2	Exam
Interaction with Intelligent Systems	INF/01	d	6	4	1	1	Exam
Knowledge Representation and Reasoning	INF/01	d	6	5		1	Exam
Social Robotics and Intelligent Agents	INF/01	d	6	4		2	Exam
Quantum Computing	INF/01	d	6	4	1	1	Exam
Ethics, Privacy and Security	INF/01	d	6	6			Exam
Metodologie e Tecnologie Didattiche per l'Informatica	INF/01	d	6	4	1	1	Exam
Semantic Technologies and Knowledge Graphs	INF/01	d	6	5		1	Exam

Legend

SSD = Disciplinary Scientific Sector

TAF (Typology): **b**= characterizing, **c**= integrative, **d**= students' choice, **e**= final exam, **f**= internships and English language;

Credits CFU (Crediti Formativi Universitari) / **ECTS** (European Credit Transfer System): **Tot** = Total CFU; **Less**= Lessons; **Ex/Lab**=Exercise/Laboratory; **Proj**= Project

PROPAEDEUTICITIES

The Course of Studies does not have mandatory propaedeuticities. However, students are recommended to attend courses and take exams following the path defined in the Study Plan.

It is recommended that students carefully read the "prerequisites" section of the program of each subject (published on the web) to make sure that they possess the knowledge requirements to profitably follow the lectures.

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 Corso di Studio Magistrale in
 Computer Science – LM-18
 Accademic Year 2023-2024

2.B STUDY PLAN FOR PART-TIME STUDENTS
FIRST YEAR
First semester
Both Curriculum

<i>Course</i>	<i>Didactic Activities</i>		<i>Credits CFU/ECTS</i>				<i>Assessment</i>
	<i>SSD</i>	<i>TAF</i>	<i>Tot</i>	<i>Less</i>	<i>Ex/Lab</i>	<i>Proj</i>	
Numerical Methods for Computer Science	MAT/08	c	9	7	2		Exam
Information Theory	INF/01	c	6	4	2		Exam
Total Credits			15				

Second semester
Curriculum Artificial Intelligence

<i>Course</i>	<i>Didactic Activities</i>		<i>Credits CFU/ECTS</i>				<i>Assessment</i>
	<i>SSD</i>	<i>TAF</i>	<i>Tot</i>	<i>Less</i>	<i>Ex/Lab</i>	<i>Proj</i>	
Fundamentals of Artificial Intelligence	INF/01	b	9	6	1	2	Exam
Natural Language Processing	ING-INF/05	b	6	4	2		Exam
Total Credits			15				

Second semester
Curriculum Security Engineering

<i>Course</i>	<i>Didactic Activities</i>		<i>Credits CFU/ECTS</i>				<i>Assessment</i>
	<i>SSD</i>	<i>TAF</i>	<i>Tot</i>	<i>Less</i>	<i>Ex/Lab</i>	<i>Proj</i>	
Secure Software Engineering	ING-INF/05	b	9	7	1	1	Exam
Urban Security	ING-INF/05	b	6	4	2		Exam
Total Credits			15				

SECOND YEAR
First semester
Both Curriculum

<i>Course</i>	<i>Didactic Activities</i>		<i>Credits CFU/ECTS</i>				<i>Assessment</i>
	<i>SSD</i>	<i>TAF</i>	<i>Tot</i>	<i>Less</i>	<i>Ex/Lab</i>	<i>Proj</i>	
Data Base Systems	ING-INF/05	b	9	7	2		Exam
Formal Methods in Computer Science	INF/01	b	6	4	2		Exam
Total Credits			15				

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Second semester
Curriculum Artificial Intelligence

Course	Didactic Activities		Credits CFU/ECTS				Assessment
	SSD	TAF	Tot	Less	Ex/Lab	Proj	
Machine Learning	ING-INF/05	b	9	7	2		Exam
Computer Vision	INF/01	b	6	4	1	1	Exam
Total Credits			15				

Second semester
Curriculum Security Engineering

Course	Didactic Activities		Credits CFU/ECTS				Assessment
	SSD	TAF	Tot	Less	Ex/Lab	Proj	
Usable Privacy and Security	INF/01	b	9	6	2	1	Exam
IoT Security	INF/01	b	6	4	2		Exam
Total Credits			15				

THIRD YEAR
Curriculum Artificial Intelligence

Course	Didactic Activities		Credits CFU/ECTS				Assessment
	SSD	TAF	Tot	Less	Ex/Lab	Proj	
Big Data	INF/01	b	6	4	1	1	Exam
Software Engineering for AI-Enabled Systems	INF/01	b	6	4	2		Exam
Semantics in Intelligent Information Access	INF/01	b	6	4	2		Exam
Students' choice		d	12				Exam
Total Credits			30				

Curriculum Security Engineering

Course	Didactic Activities		Credits CFU/ECTS				Assessment
	SSD	TAF	Tot	Less	Ex/Lab	Proj	
Project Management for Security	ING-INF/05	b	6	5		1	Exam
Serious Games for Cyber-Security	INF/01	b	6	3	2	1	Exam
Artificial Intelligence for Security	ING-INF/05	b	6	4	1	1	Exam
Students' choice		d	12				Exam
Total Credits			30				

Regolamento didattico del Corso di Studio Magistrale in
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FOURTH YEAR
 Both curriculum

<i>Course</i>	<i>SSD</i>	<i>TAF</i>	<i>Tot. Credits</i>	<i>Assessment</i>
Further Didactic Activities (Internships, seminars)		f	7	Attendance verification
Advanced Scientific English	L-LIN/12	f	3	Pass/Fail Exam
Final Assessment		e	20	Final Exam
Total Credits			30	

Further didactic activities to be activated:

<i>Course</i>	<i>Didactic Activities</i>		<i>Credits CFU/ECTS</i>				<i>Assessment</i>
	<i>SSD</i>	<i>TAF</i>	<i>Tot</i>	<i>Less</i>	<i>Ex/Lab</i>	<i>Proj</i>	
Social Computing	INF/01	d	6	4	1	1	Exam
Cyber-Security Capstone Project	ING-INF/05	d	6	3	1	2	Exam
Cloud Computing	INF/01	d	6	3	1	2	Exam
Interaction with Intelligent Systems	INF/01	d	6	4	1	1	Exam
Knowledge Representation and Reasoning	INF/01	d	6	5		1	Exam
Social Robotics and Intelligent Agents	INF/01	d	6	4		2	Exam
Quantum Computing	INF/01	d	6	4	1	1	Exam
Ethics, Privacy and Security	INF/01	d	6	6			Exam
Metodologie e Tecnologie Didattiche per l'Informatica	INF/01	d	6	4	1	1	Exam
Semantic Technologies and Knowledge Graphs	INF/01	d	6	5		1	Exam

Legend

SSD = Disciplinary Scientific Sector

TAF (Typology): **b**= characterizing, **c**= integrative, **d**= students' choice, **e**= final exam, **f**= internships and English language;

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