UNIVERSITA' DEGLI STUDI DI MILANO
PROGRAMME DESCRIPTION - ACADEMIC YEAR 2025/26
MASTER DEGREE
COMPUTER SCIENCES (Classe LM-18)
Enrolled in 2025/26

HEADING

Degree classification - Denomination and code:	LM-18 Computer science
Degree title:	Dottore Magistrale
Length of course:	2
Credits required for admission:	180
Total number of credits required to complete programme:	120
Years of course currently available:	1st
Access procedures:	Open, subject to entry requirements
Course code:	FBA

PERSONS/ROLES

Head of Study Programme
   Prof.ssa Sabrina Gaito

Degree Course Coordinator
   Prof. Marco Tarini

Tutors - Faculty
   TUTOR PER L'ORIENTAMENTO
   Carlo Bellettini
   Roberto Cordone
   Mattia Monga
   Beatrice Palano
   Laura Ripamonti
   Giorgio Valentini

Degree Course website
   https://informatica-lm.cdl.unimi.it

Via Celoria 18 - 20133 Milano   https://di.unimi.it/it/dipartimento/organizzazione/commissioni   Email: orientamento@di.unimi.it

Via Celoria 18 - 20133 Milano   https://di.unimi.it/it/dipartimento/organizzazione/commissioni   Email: ammissioni.magistrali@di.unimi.it

Via Celoria 18 - 20133 Milano   https://di.unimi.it/it/dipartimento/organizzazione/commissioni   Email: piani.studio@di.unimi.it

Via Celoria 18 - 20133 Milano   https://di.unimi.it/it/dipartimento/organizzazione/commissioni   Email: orientamento.uscita@di.unimi.it

Via Celoria 18 - 20133 Milano   https://di.unimi.it/it/dipartimento/organizzazione/commissioni   Email: tesi.magistrali@di.unimi.it

Via Celoria 18 - 20133 Milano   https://di.unimi.it/it/dipartimento/organizzazione/commissioni   Email: erasmus@di.unimi.it

   Email: rappresentanti.studenti@di.unimi.it

Via Celoria 18 - 20133 Milano   https://di.unimi.it/it/dipartimento/organizzazione/commissioni   Email: trasferimenti@di.unimi.it

Via Celoria 18 - 20133 Milano   Phone 0250316250/252   Sportello in presenza: mercoledì dalle 14.00 alle 16.00 / Sportello telefonico: giovedì dalle 9.30 alle 12.30   https://di.unimi.it/it/dipartimento/segreterie-e-servizi/ufficio-la-didattica
https://informastudenti.unimi.it/saw/ess?AUTH=SAML

Via Celoria 18 - 20133 Milano   Phone 0250325032   https://www.unimi.it/it/node/360   https://www.unimi.it/it/node/359/

EXPERIENCE OF STUDY ABROAD AS PART OF THE TRAINING PROGRAM

   The University of Milan supports international mobility by providing its students with the opportunity to spend study and internship periods abroad. It is a unique chance to enrich your educational path in a new exciting environment.

   The agreements entered into by the University with over 300 universities from the 27 EU member countries under the European Erasmus+ programme allow regularly enrolled students to carry out part of their studies at one of the partner universities or to undertake internships at companies, training and research centres and other organisations.

Similar international mobility opportunities are provided outside Europe, through agreements with a number of prestigious institutions.

The University of Milan is a member of the 4EU+ European University Alliance that brings together eight public multidisciplinary universities: University of Milan, Charles University of Prague, Heidelberg University, Paris-Panthéon-Assas University, Sorbonne University of Paris, University of Copenhagen, University of Geneva, and University of Warsaw. The 4EU+ Alliance offers integrated educational pathways and programmes to promote the international mobility of students (physical, blended and virtual).

Study and internships abroad
The education program can be enriched by educational activities abroad both to deepen some topics and as socialization experience in international environments. Within the Erasmus+ program study periods can be taken in over 50 universities in Belgium, Czech Republic, Finland, France, Germany, Greece, Hungary, Lithuania, Norway, Netherlands, Poland, Portugal, Romania, Slovenia, Spain, Switzerland, Turkey. Courses will be recognized in the personalized study plan. These periods abroad are typically 5-month long and include courses for about 30 CFU, in the area of information and communication technology and related applications. Recognition of these educational activities will be based on the Learning Agreement, to be defined in advance by the student and the Erasmus coordinator at the Computer Science Department before starting the period abroad: course in the learning agreement with passed exams will replace the educational activities of the study plan ("manifesto"), either by covering the same topics or complementing the acquired basic competences. The Erasmus Committee at the Computer Science Department will perform the recognition of CFU obtained abroad and the definition of the personalized study plan. Similarly, stages to prepare the final dissertation are allowed in the same foreign universities. Recognition will be performed by the Department Erasmus Committee.
Erasmus: the coordinator for the Department of Informatics is Prof. Fabio Scotti.
International Programs: the coordinator for the Department of Informatics is Prof. Davide Rocchesso.
More information are available at the following link: https://di.unimi.it/it/rapporti-internazionali/mobilita-internazionale/opportunita-internazionali

How to participate in Erasmus mobility programs
The students of the University of Milan can participate in mobility programmes, through a public selection procedure.
Ad hoc commissions will evaluate:
• Academic career
• the candidate's proposed study programme abroad
• his/her foreign language proficiency
• the reasons behind his/her application

Call for applications and informative meetings
The public selection for Erasmus+ mobility for study generally begins around February each year with the publication of a call for applications specifying destinations and requirements. Regarding the Erasmus+ Mobility for Traineeship, the University of Milan usually publishes two calls a year enabling students to choose a destination defined by an inter-institutional agreement or to find a traineeship position on their own.

The University organises informative meetings to illustrate mobility opportunities and rules for participation.

Erasmus+ scholarship
The European Union grants the winners of the Erasmus+ programme selection a scholarship to contribute to their mobility costs, which may be supplemented by the University funding for disadvantaged students.

Language courses
Students who pass the selections for mobility programmes can benefit from intensive foreign language courses offered each year by the University Language Centre (SLAM).
https://www.unimi.it/en/node/8/

Learn more at https://www.unimi.it/en/node/274/

For assistance, please contact:
International Mobility Office
Via Santa Sofia 9 (second floor)
Tel. 02 503 13501-12589-13495-13502
Contacts: InformaStudenti;
Student Desk booking through InformaStudenti

1st COURSE YEAR Core/compulsory courses/activities common		
Learning activity	**Ects**	**Sector**
English proficiency B2 (3 ECTS)	3	ND
Total compulsory credits	3	

Further elective courses		
	6	INF/01
	6	INF/01
	6	INF/01
	6	INF/01
3D VIDEO GAMES	6	INF/01
ADVANCED INTELLIGENT SYSTEMS	6	INF/01
ADVANCED PROGRAMMING *Alternate year course, not available in a.y. 2025/26*	6	INF/01
ADVANCED PROGRAMMING TECHNIQUES *Alternate year course, available in a.y. 2025/26*	6	INF/01
AFFECTIVE COMPUTING	6	ING-INF/05
ALGORITHMS AND COMPLEXITY	6	INF/01
ALGORITHMS FOR MASSIVE DATASETS	6	INF/01
ARTIFICIAL INTELLIGENCE	6	INF/01
ARTIFICIAL INTELLIGENCE FOR TIME SERIES ANALYSIS	6	INF/01
ARTIFICIAL INTELLIGENCE FOR VIDEO GAMES	6	INF/01
ARTIFICIAL VISION	6	INF/01
AUDIO PATTERN RECOGNITION	6	INF/01
AUTONOMOUS ROBOTS AND AGENTS	6	INF/01
BIOINFORMATICS	6	INF/01
BUSINESS INFORMATION SYSTEMS	6	INF/01
CLOUD COMPUTING TECHNOLOGIES	6	INF/01
COMPUTING EDUCATION	6	INF/01
DEVELOPMENT OF APPLICATIONS FOR MOBILE DEVICES	6	INF/01
DIGITAL CITIZENSHIP AND CIVIC ACTIVISM *Alternate year course, available in a.y. 2025/26*	6	INF/01
DISTRIBUTED AND PERVASIVE SYSTEMS	6	INF/01
FORMAL LANGUAGE THEORY	6	INF/01
FORMAL METHODS	6	INF/01
GAMIFICATION AND SERIOUS GAMES	6	INF/01
GEOSPATIAL DATA MANAGEMENT *Availble from a.y. 2026/27*	6	ING-INF/05
GPU COMPUTING	6	INF/01
GRAPH THEORY	6	INF/01
HEURISTICS ALGORITHMS	6	INF/01
INFORMATION MANAGEMENT	6	INF/01
INTELLIGENT SYSTEMS FOR INDUSTRY, SUPPLY CHAIN AND ENVIRONMENT	6	INF/01
KNOWLEDGE REPRESENTATION AND REASONING	6	INF/01
LOGISTICS	6	INF/01
MACHINE LEARNING ON GRAPHS	6	INF/01
METHODS FOR IMAGE PROCESSING	6	INF/01
NATURAL LANGUAGE PROCESSING	6	INF/01
NETWORK SCIENCE *Availble from a.y. 2026/27*	6	INF/01
NEW GENERATION DATA MODELS AND DBMSS	6	INF/01
ONLINE GAME DESIGN	6	INF/01
PARALLEL AND DISTRIBUTED ALGORITHMS	6	INF/01
PRIVACY AND DATA PROTECTION	6	INF/01
PRIVACY AND DATA PROTECTION	6	INF/01
PROBABILISTIC METHODS FOR INFORMATICS	6	INF/01
PROCEDURAL AND SPATIAL SOUND	6	INF/01
REAL-TIME GRAPHICS PROGRAMMING	6	INF/01
REINFORCEMENT LEARNING	6	INF/01
RISK ANALYSIS AND MANAGEMENT *Availble from a.y. 2026/27*	6	INF/01
SCIENTIFIC VISUALIZATION	6	INF/01
SENSOR SYSTEM DESIGN	6	INF/01
SIMULATION	6	INF/01
SOFTWARE DEVELOPMENT IN COMPLEX TEAMS *Alternate year course, not available in a.y. 2025/26*	6	INF/01
SOFTWARE VERIFICATION AND VALIDATION *Alternate year course, available in a.y. 2025/26*	6	INF/01
SONIC INTERACTION DESIGN	6	INF/01
STATISTICAL METHODS FOR MACHINE LEARNING	6	INF/01
THEORETICAL COMPUTER SCIENCE	6	INF/01
VIRTUAL REALITY	6	INF/01
WEB ALGORITHMICS *Availble from a.y. 2026/27*	6	INF/01
WEB PROGRAMMING FOR SOUND AND MUSIC	6	INF/01
WIRELESS AND MOBILE NETWORKS	6	INF/01
	6	MAT/09
	6	MAT/09
	6	SECS-P/08
ADVANCED MULTIVARIATE STATISTICS	6	SECS-S/01
BIOMEDICAL SIGNAL PROCESSING	6	ING-INF/06
COMPUTATIONAL GEOMETRY	6	MAT/03
DECISION METHODS AND MODELS	6	MAT/09
MATHEMATICAL LOGIC	6	MAT/01
NUMERICAL ANALYSIS	6	MAT/08

End of course requirements			
FINAL EXAM		39	NA
	Total compulsory credits	39	