



**UNIVERSITA' DEGLI STUDI DI MILANO**  
**PROGRAMME DESCRIPTION - ACADEMIC YEAR 2025/26**  
**MASTER DEGREE**  
**HUMAN-CENTERED ARTIFICIAL INTELLIGENCE (Classe LM-55 R)**  
**Enrolled in a.y. 2025/2026**

### HEADING

<b>Degree classification - Denomination and code:</b>	LM-55 R
<b>Degree title:</b>	Dottore Magistrale
<b>Curricula currently available:</b>	HYBRID AI / NEURO-AI / AI AND LAW
<b>Length of course:</b>	2 years
<b>Credits required for admission:</b>	180
<b>Total number of credits required to complete programme:</b>	120
<b>Years of course currently available:</b>	1st
<b>Access procedures:</b>	Open, subject to entry requirements
<b>Course code:</b>	CBK

### PERSONS/ROLES

#### Head of Study Programme

Giuseppe Primiero

#### Tutors - Faculty

Academic guidance tutor for specific majors:

HYBRID: Giuseppe Primiero (UNIMI)

NEURO-AI: Claudia Casellato (UNIPV) e Eduardo Caverzasi (UNIPV)

LAW & AI: Nicola Sartori (UNIMIB)

Erasmus and international mobility tutor:

Nyssen Rafael Penalzoa (UNIMIB)

Study plan tutor:

Pierluigi Perri (UNIMI)

Internship tutor:

Eduardo Caverzasi (UNIPV)

Seminar and workshop tutor:

Mauricio Abel Soto Gomez (UNIMI)

Dissertation tutor

Hykel Hosni (UNIMI)

Master's degree admission tutor:

Eduardo Caverzasi and Danilo Benozzo (UNIPV)

Maria Sapignoli and Anna Caterina Dalmasso (UNIMI)

Nicola Canzian and Ludovica Tavassi (UNIMIB)

#### Degree Course website

<https://hcai.cdl.unimi.it/en>

#### Student registrar

Via S. Sofia 9/1 - 20122 Milano <https://www.unimi.it/it/studiare/servizi-gli-studenti/segreteria-informastudenti>

#### Teaching Office

Via Festa del Perdono, 3 - 20122 Milano (MI) Phone Phone 02 503 12724-12435 Email: [hcai@unimi.it](mailto:hcai@unimi.it)

#### Tutor for students with disabilities and for students with Specific Learning Disabilities (SLD)

Raffaella Tore (UNIMI)

## Vice-Presidents of the Degree Course's Teaching Board

Egidio D'Angelo (UNIPV), Nicola Sartori (UNIMIB)

# CHARACTERISTICS OF DEGREE PROGRAMME

## General and specific learning objectives

Human-centered artificial intelligence is a new paradigm that is now the focus of the research and development activities of both large companies and prestigious international research centers in the U.S. and Europe. The underlying idea is to shift the focus of Artificial Intelligence from "stand-alone" applications aimed at replacing humans in intelligent tasks to interactive applications in which human and machine intelligence work together to overcome the limitations of both.

The overall goal of this master's degree program is to offer a significantly interdisciplinary context to train new professionals capable of accompanying the widespread diffusion of Artificial Intelligence, enabling the reasonable and responsible integration of new technologies into the human context in which they are to be used. This integration aims to solve complex problems involving a constellation of non-technical variables: strategic goals, moral values, legal constraints, cognitive biases, and other psychological and social factors. From this perspective, the input of human agents becomes an integral part of an Artificial Intelligence system, and Artificial Intelligence itself becomes a set of sophisticated technologies to enhance the intelligence of human agents by expanding their cognitive capabilities. Hence, there is an essential need for strongly interdisciplinary skills, both theoretical and empirical ones, to meaningfully and responsibly guide this process of integrating new technologies into the real-world contexts.

The aim is to train bridging figures between the hard-skills of experienced developers and the soft-skills needed to integrate AI applications into the human context in which they are deployed.

Graduates in Human-Centered AI will possess:

- significant education in the disciplines characterizing the interaction between human cognition and AI;
- a thorough understanding of the most advanced methods of data collection, analysis and decision-making (machine learning);
- a thorough understanding of the theoretical, technical and cognitive aspects of human-computer interfaces;
- the ability to design models and interventions for the reorganization of interfaces between humans and AI systems;
- the ability to independently conduct research activities in the field of artificial intelligence;
- the ability to use fluently, in written and oral form, at least one language of the European Union besides Italian, with reference also to the terminology of the field;
- a thorough knowledge of a theoretical and operational nature on communication and decision-making processes based on the use of artificial intelligence systems;
- knowledge of the principles and the main methodologies of AI at a level adequate to interact fruitfully with computer scientists and connect them with domain experts in a multi-disciplinary context;
- a thorough understanding of the non-technical aspects- e.g. ethical issues, legal constraints, cognitive aspects, philosophical foundations, neuroscientific foundations associated with the use of AI technologies to support, not replace, humans and their activities;
- familiarity with the main applications of AI in the work context (business, health care, legal) and with the tools that enable informed and transparent interactions between humans and machines;
- decision-making abilities in highly complex situations.

Specific objectives will be formulated according to the curricula in which the course is organised. Since this is an interdisciplinary degree, which admits graduates from different backgrounds, these objectives will be achieved:

- a) by including in the curriculum alternative courses that allow students to integrate their previously acquired knowledge according to the degree course of origin and the exams taken,
- b) by proposing personalised study plans to guide students in their choices,
- c) by proposing advanced foundations courses for the characterising subjects that are essential to the achievement of the training objectives, the purpose of which is to provide, in the initial part, a summary of the basic knowledge needed to acquire more advanced content,
- d) by setting up a structured tutoring service to facilitate students with different backgrounds using these courses.

Starting from a broad common core, the course will be divided into three curricula. The common core will consist of characterising subjects belonging to the following areas:

- 1) philosophical and linguistic disciplines (with the addition of the areas IUS-20 and IUS-08), to acquire knowledge and competences of logical, epistemological and ethical-legal type
- 2) psychological disciplines, to acquire knowledge and competences on human-computer interaction and on the role of AI in decision-making processes
- 3) psychobiological and neuroscience disciplines, to acquire knowledge and skills relating to cognitive functions and their neural bases
- 4) mathematical, computer and engineering disciplines, to acquire knowledge and skills relating to development and analysis of machine learning models, algorithms and programming, for knowledge representation and reasoning, and natural

language processing.

Laboratories aimed at acquiring further knowledge and skills in computing are also part of the common core. The three curricula aim to provide a more specific preparation in relation to three main contexts:

A) the general context of integrating AI applications in an organisation and planning for fruitful collaboration between humans and machines, taking into account the psychological and social component of this interaction. This curriculum will provide:

- additional knowledge and skills in the field of AI, obtained through teaching in the fields of mathematics, computer science and engineering, as well as additional computer laboratories;
- knowledge and skills relating to the psycho-social and legal aspects of working in complex teams (made up of human beings with different skills and machines) and the impact of AI on the organisation of work, obtained through teaching in the field of psychology and related and complementary disciplines, with reference to sociology and anthropology.

B) The context of clinical and theoretical neuroscience. This curriculum will provide

- further knowledge and skills in the field of neural bases of brain processes for the development of AI-based, multiscale and bio-inspired neural models and for the handling of human-machine interface neural signals;
- knowledge and skills relating to the application of AI algorithms in the field of clinical neuroscience, in order to promote the diagnostic and therapeutic/rehabilitation process in the direction of precision and personalised medicine.

C) The legal (domestic and European) as well as ethical context of AI applications in a public or private organisation. This curriculum will provide:

- further knowledge and skills in the field of AI, adopting a multidisciplinary approach that enables the combination within the same teaching course (and laboratories) of the mathematical, computer and engineering disciplines relating to a specific field of application (judicial, public administration, tax, labour relations etc.), with the respective and specific legal issues;
- knowledge and skills relating to the general ethical-legal aspects associated with AI applications, such as profiles relating to fundamental and human rights, data protection and data collection, civil and criminal liability, protection of intellectual property, communication, transparency.

All curricula guarantee, within the framework of the characterising disciplines, a minimum of 12 ECTS of computer science teaching in the first year, aimed at consolidating, or providing, if necessary, fundamental knowledge and skills in this field. The laboratory activities also provide, for all students, the acquisition of at least a further 9 ECTS in activities useful for acquiring computer skills.

### **Expected learning outcomes**

Knowledge and understanding

Graduates will possess:

- advanced knowledge related to the new epistemological, ethical and legal issues raised by the diffusion of AI technologies in society and industry.
- ability to understand in-depth texts and scientific articles to follow the continuous evolution of research on these issues. This knowledge and ability will be obtained mainly through educational activities within the logico-philosophical and linguistic disciplines (including legal disciplines);
- a thorough knowledge of the fundamentals of Machine Learning, the main techniques of high-level and "human-oriented" programming, natural language processing, knowledge representation, and reasoning, as well as the ability to make advanced use of the main computer software and tools for AI applications in a work context. This knowledge and ability will be obtained through educational activities within the mathematical and computer science disciplines and through laboratories;
- a thorough understanding of the cognitive aspects underlying human-computer interaction and computer-aided decision making;
- the ability to understand advanced texts to follow the continuing evolution of research on these topics and to direct the design of understandable and ethically transparent interfaces. Such knowledge and skills will be obtained primarily through characterizing educational activities within the psychological disciplines.

Such in-depth knowledge is acquired through lectures, tutorials, laboratories, group work and practical case studies, and classroom discussions.

The verification of the achievement of the expected results will be carried out by means of written and/or oral examinations, individual presentations of the results achieved in the work carried out (including group work) and practical tests in the laboratory.

Ability to apply knowledge and understanding

Graduates will possess:

- the ability to adequately assess the ethical-legal, psychological and social impact of the use of specific artificial intelligence technologies;
- the ability to link the technical aspects of AI with the humanities and to build bridges that connect IT experts, domain experts and the general public;
- the ability to lead the activities of a working group including expert developers, domain experts, and stakeholders tasked with designing the responsible development and integration of AI technologies into the relevant context;
- the ability to design and lead ongoing staff training activities in a work context and to promote an "AI culture" that values the role of human agents in the application of new technologies;
- the ability to responsibly, consciously, and purposefully use the major software environments available to analyze the growing amount of data made available by the evolution of the Internet.

For these skills, the reference activities are those belonging to the areas of philosophical, linguistic, psychological, legal, mathematical and computer science disciplines, appropriately complemented by professionalizing laboratories.

Further skills will be acquired through additional activities belonging to the fields of psychobiology and brain sciences.

These skills are acquired through lectures, tutorials, of the practical-experimental activities in the laboratory, group work and practical case studies also through a didactic approach oriented to the solution of specific problems and interaction in the classroom.

Verification of these skills takes place through written and/or oral examinations, individual presentations of the results achieved in the work carried out (including in groups), practical tests in the laboratory, as well as in the evaluation of the final examination.

#### Making judgements

Graduates will be able to integrate acquired knowledge, to evaluate complex phenomena with a critical sense and to make judgements on the basis of limited or incomplete information. The graduate will also be able to understand and manage the social and ethical responsibilities associated with the application of their knowledge and judgements. These skills are acquired through problem-solving-oriented teaching methods and through projects, also in progress, to be carried out individually or in groups. Evaluation takes place through the assessment of projects, in individual examinations, in practical activities carried out in laboratories, as well as in the assessment of the final exam.

#### Communication skills

Graduates will be able to communicate the results of their analyses and proposed solutions clearly and effectively to both specialists and non-specialists in artificial intelligence. Graduates will possess, in particular, relevant skills in communicating and collaborating in working groups and in heterogeneous and interdisciplinary environments. This is achieved by means of projects, also in itinere, and group work, including in-class presentations by the students themselves. Communication skills are tested through the presentation of the activities carried out in the projects, during oral examinations and during the discussion of the final exam.

#### Learning skills

Graduates will be able to independently extend their knowledge and skills through the personal study of scientific publications and technical reports. Graduates will also be able to access selections for the higher level of education (PhDs and second-level Masters), with particular reference to the new PhDs in Artificial Intelligence, which are expanding rapidly both in Italy and abroad. These skills will be acquired in the context of the realisation of projects, also in itinere, of practical-experimental activities in the laboratory and of exercises aimed at solving specific problems and studying cases, as well as in the eventual theoretical-experimental internship activity for the preparation of the thesis. Learning skills will be assessed both by means of in itinere tests and projects and in the final exam.

### **Professional profile and employment opportunities**

Expert in Human-AI Cooperation

Function in a business context:

- Coordinating hybrid work teams (consisting of humans with different skills and machines), fostering interaction between IT experts, managers, domain experts, UX- designers and stakeholders.
- Organising the division of tasks and the ways of cooperation between humans and machines, taking into account psychological, ethical, sociological and cultural aspects.
- Translate stakeholders' needs in order to elaborate appropriate AI-based development projects within an organisation or company.
- Propose coaching and training sessions in which to illustrate to employees the benefits that human-machine hybrid teams can bring to the organisation.
- Coordinate collaboration with external consultants (economists, sociologists, analysts).

- Propose new performance indicators to assess the effectiveness of hybrid teams.
- Properly assess the ethical, psychological and social aspects of introducing artificial intelligence into the work environment and the general social context.

Skills associated with the function:

- Ability to make decisions on the basis of the logical-epistemological, legal, cognitive and computing foundations of artificial intelligence;
- Ability to use data analysis and visualisation tools aimed at human-computer interaction;
- Ability to contribute to the development of applications of artificial intelligence in the fields of education, human sciences, art and culture;
- Ability to connect collaborators with different skills in order to effectively integrate artificial intelligence technologies in the work context;
- Ability to lead advanced research in the area of human-centered AI with special reference to the areas of logic, epistemology, ethics, cognition, and computer science.

Employment outlets:

The master's graduate will be able to find employment as an AI contact person in small and medium-sized companies, in enterprises and corporate groups, including those with a transnational dimension, in public administrations, independent authorities and national, EU and international agencies. He or she may also serve as a freelance consultant and as a researcher in public and private enterprises.

Expert in Neuro-AI

Function in a work setting:

- use virtual models of the brain to advance the diagnostic and therapeutic/rehabilitation pathway in the direction of precision and personalized medicine, in clinical neurology;
- interface the clinical setting with new AI-based ICT technologies;
- oversee the training activities of healthcare personnel by fostering the growth and dissemination of an "AI culture."
- adequately evaluate the ethical, psychological, and social aspects related to the introduction of artificial intelligence in the health and social context.

Skills associated with the function:

- ability to make decisions based on the neuroscientific, cognitive and computer science foundations of AI;
- ability to analyze and visualize data, in the context of human-computer interaction;
- ability to coordinate a team composed of computer scientists and domain experts;
- ability to apply AI in the field of medicine
- ability to lead advanced research in the area of human-centered AI with special reference to the areas of neuroscience, cognition, and computer science.

Employment outlets:

Clinical facilities, both public and private, neuroscience centers, R&D departments developing digital and technological platforms for personalized and precision medicine, ICT departments in the biomedical field.

Expert in AI and Law

Function in a business context:

- apply AI techniques within the relevant legal framework of public agencies, private organizations, or international organizations;
- advise policy-making bodies and IT practitioners on the protection of rights in data collection and analysis operations and algorithmic decision-making processes;
- oversee the conscious use of AI by users or any civil and criminal liability profiles (for the user or the organization) arising from the use of innovative instrumentation;
- perform discrimination prevention and data protection oversight functions;
- oversee staff training activities by fostering the growth and dissemination of an "AI culture."

Skills associated with the function:

- ability to make decisions based on the legal, ethical, cognitive, and computer science foundations of AI;
- ability to work through AI methodologies employed in public and private organizations;
- ability to seize opportunities for the development of artificial intelligence, overseeing any civil or criminal liability profiles arising from its use;
- ability to coordinate a team composed of IT experts and domain experts;
- ability to interact with managers, IT experts and users of public and private organizations employing AI techniques in order to oversee the protection of the rights at stake;

- ability to lead advanced research in the area of human-centered AI with special reference to the areas of law and computer science.

Employment outlets:

Corporations and corporate groups, including those of transnational dimension; public administrations; independent authorities and national, EU and international agencies; self-employed.

### **Initial knowledge required**

Admission to the Master's Degree in Human-Centered Artificial Intelligence requires a bachelor's degree or a three-year university degree, or a degree obtained abroad and recognized as suitable.

Basic knowledge in logic and epistemology, mathematics and computer science, cognitive, philosophical, legal sciences is required to enter the Degree.

Curricular requirements consist of the possession of at least 30 CFUs in the fields INF/01, ING-INF/05, MAT/01, 02, MAT/05, 06, 07, 09, SECS-S/01, M-FIL/02, 03, 05, M-PSI/01, 02, BIO/09, IUS/01, IUS/08, 09, 20, of which:

- at least 12 in the fields INF/01, ING-INF/05, MAT/01, 02, MAT/05, 06, 07, 09, SECS-S/01
- at least 12 in the fields M-FIL/02, 03, 05, M-PSI/01, 02, BIO/09, IUS/01, IUS/08, 09, 20.

Proficiency in English at a B2 level or higher per the Common European Framework of Reference for Languages (CEFR) is required for admission.

The B2-level requirement will be ascertained by the University Language Centre (SLAM) upon admission, by satisfaction of one of the following:

- Language certificate of B2 or higher level issued no more than three years before the date of admission application. You will find the list of language certificates recognized by the University at: <https://www.unimi.it/en/node/39322>. The certificate must be uploaded when submitting the online application;
- Having obtained the open badge Bbetween English B2 from the University of Milan-Bicocca, or has passed the Placement test in English B2 from the University of Milan, or has obtained the English B2 certificate from the Language Center of the University of Pavia;
- Holding a degree delivered entirely or predominantly in English;
- English level achieved during a University of Milan degree programme and certified by the University Language Centre (SLAM) no more than four years before the date of admission application, including levels based on language certificates submitted by the applicant during their Bachelor's degree at the University of Milan. In this case the process is automatic, the applicant does not have to attach any certificates to the application;
- Placement test administrated by the University Language Centre (SLAM) according to the calendar published on the website: (<https://www.unimi.it/en/node/39267/>)

All those who fail to submit a valid certificate or do not meet the required proficiency level will be instructed during the admission procedure to take the placement test.

Applicants who do not take or pass the placement test will be required to obtain a language proficiency certificate recognized by the University (see <https://www.unimi.it/en/node/39322>) and deliver it to the SLAM via the InformaStudenti service by December 31, 2025 (<https://www.unimi.it/en/node/39267/>).

Applicants who do not meet the requirement by the said deadline will not be admitted to the Master's degree programme and may not sit any further tests.

### **Admission assessment**

The Degree is open access. Admission is subject to verification of the possession of curricular requirements and evaluation of the candidate's personal preparation. For candidates with foreign degrees, verification of the requirements will be carried out by comparing the contents of the candidates' previous courses of studies.

Having verified the curricular requirements, the assessment of personal preparation will be done through individual interview on the knowledge required for admission. The interview will also assess the multidisciplinary preparation necessary to undertake the Course of Study. Specifically,

- basic knowledge in the area of algorithms and programming will be required for the computer science area;
- basic knowledge in the area of logic, probability, statistics and algebra will be required for the mathematics area.

In addition, basic knowledge in at least one of these three areas is required:

- philosophical: logic, epistemology and applied ethics;
- cognitive sciences: neuroscience, cognitive science and general psychology;
- legal: sources of law, fundamental rights and legal informatics.

The timing and procedures for submitting the application for the evaluation of qualifications, as well as the dates of the interviews will be published on the University website [www.unimi.it](http://www.unimi.it) on the page dedicated to the course of study.

Applicants with degrees from abroad will be attracted through widespread dissemination of open calls in all relevant fields through the academic networks of relevant faculty members. In their case, in order to appropriately assess the congruence of the educational background on the basis of the above curricular requirements, the admissions committee will decide on the appropriateness of admitting the candidate by evaluating the computer, mathematical, philosophical, psychological, biological and legal knowledge and skills acquired in his or her previous course of study, on the basis of an interview, possibly to be held remotely.

Students must select a curriculum within the Master's degree programme upon submitting their application. It is possible to change curriculum in accordance with the procedures laid down by the Academic Board and communicated to students via the Course website.

### **Compulsory attendance**

Attendance is not mandatory, but the interdisciplinary nature and mixed and participatory teaching methods strongly recommend attendance. In addition, laboratory and internship activities are mainly conducted in presence, and any other form of participation must be agreed with the lecturers or supervisors.

### **Internship criteria**

Compulsory, 3 CFUs, duration 150 to 300 hours maximum, valid subject to approval by the Academic Board.

It may be replaced by research activities at research centres.

Instructions on how to apply for internship are provided on the website of the Course of Study at the page <https://hcai.cdl.unimi.it/en/study/stage-and-internship>

### **Degree programme final exams**

Upcoming graduates must have earned 99 CFU prior to sitting for the final examination.

The master's degree in Human-Centered Artificial Intelligence is awarded by passing a final examination, consisting of the presentation and discussion of a dissertation.

The dissertation is prepared by the student, under the guidance of a faculty advisor, and consists of a written paper on a topic chosen within the educational course of the master's degree program, possibly the subject of the theoretical or practical activities involved by the internship.

The paper, if written as part of an internship activity, describes the activities carried out by the student, the knowledge and skills acquired in the theoretical and/or applied study, as well as the connections with the state of the art in the field of the applications of human-centered artificial intelligence in the cognitive sciences. In this case, the internship activity aimed at the thesis may be carried out at universities, institutions or companies, in Italy or abroad.

The thesis work may also consist of the critical investigation of the topics studied, carried out through direct, rigorous and comprehensive examination of sources and literature.

The final examination consists of the discussion of the thesis before an appointed committee. The thesis will be written and discussed in English.

The final exam awards 21 credits and a grade reflecting the thesis quality and the candidate's intellectual maturity. The degree mark (on a scale of 110) will be determined based on the student's academic achievements throughout the programme as well as the final exam grade. Candidates who score 110/110 may be awarded honours for the value of their work, with a unanimous vote of the examining board.

The schedule of sessions, deadlines and operational directions are published on the course of study website.

## ***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 Master's Degree Programme in Human-Centered Artificial Intelligence holds agreements for Erasmus-exchange partnerships with other European universities through the Department administratively responsible for the Degree. The programme keeps students up-to-date on these, encouraging them to take advantage of the opportunities these exchanges

offer. The Erasmus scholarship programme is posted to the University's website, and the Degree has an Erasmus and International Mobility Tutor who can be contacted to consider the different options. The Degree is building a coherent number of options with the aim of covering all areas. The various locations also offer the opportunity for students to take exams in subjects not included in the study plan of the Degree. Candidates are selected by the Erasmus and International Mobility Tutor, who assesses the student's interests, their academic career, and their proficiency in the language of the country where they hope to study.

Admitted students will fill out the Learning Agreement with the Erasmus Tutor. Once abroad, they will correspond via email with the tutor regarding any changes. Students submitting a Learning Agreement to the Erasmus tutor via email will receive it back e-signed. They may then have their host university countersign the document prior to their return home. Upon returning home, any exams the student has taken whilst abroad (documented in the "Transcript of Records") are converted into Italian exams based on the Learning Agreement; exam conversion and the marks for the same shall be subject to approval of the Teaching Board.

Current international agreements are available at the following link:

<https://www.unimi.it/en/international/university-milan-world/international-agreements> (Search by Philosophy Department).

Additionally, agreements through Erasmus+ Traineeship are active, as well as the possibility of applying for the Call for Theses Abroad of the University of Milan.

### 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

<b>1st COURSE YEAR Core/compulsory courses/activities common to all curricula</b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
	3	NA
AI and human decision making	12	M-PSI/01
AI, ethics and law	6	(3) M-FIL/03, (3) IUS/20
Brain and cognition	6	M-PSI/02
Machine learning	6	INF/01
	Total compulsory credits	33
<b>Elective courses common to all curricula</b>		

Additional Language Skills: French (3 ECTS)	3	ND
Additional Language Skills: German (3 ECTS)	3	ND
Additional Language Skills: Spanish (3 ECTS)	3	ND
Additional Language Skills: Italian (3 ECTS)	3	ND

### **COURSE YEAR UNDEFINED Core/compulsory courses/activities common to all curricula**

Learning activity	Ects	Sector
	21	NA
Total compulsory credits	21	

### **Further elective courses common to all curricula**

### **ACTIVE CURRICULA LIST**

HYBRID AI Course years currently available: 1st  
 NEURO-AI Course years currently available: 1st  
 AI AND LAW Course years currently available: 1st

#### **CURRICULUM: [CBK-A] HYBRID AI**

### **1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features HYBRID AI**

Learning activity	Ects	Sector
Mathematics for AI	6	MAT/07
Total compulsory credits	6	

### **Elective courses Curriculum-specific elective courses for HYBRID AI**

Knowledge representation and reasoning	6	INF/01
Natural language processing	6	INF/01
Programming	6	INF/01
Logics for AI	6	M-FIL/02
Methodology of data-driven reasoning	6	M-FIL/02
Philosophy of cognitive neuroscience	6	M-FIL/02
AI and organizational development	6	M-PSI/06
Principles of social psychology for AI design	6	M-PSI/05

### **2nd COURSE YEAR (available as of academic year 2026/27) Elective courses Curriculum-specific elective courses for HYBRID AI**

	3	NA
	3	NA
AI in education	6	M-PED/03
Media theory and AI	6	(3) M-FIL/04, (3) L-ART/06
Technological transfer	6	SECS-P/08
Affective computing	6	INF/01
Human-computer interaction	6	INF/01
Knowledge representation and reasoning	6	INF/01
Natural language processing	6	INF/01
Text and argument mining	6	INF/01
Anthropology of AI	6	M-DEA/01
Smart contracts and intellectual property law	6	(3) IUS/01, (3) INF/01
Sociology of AI	6	(3) SPS/08, (3) SPS/07
	3	NA
	3	NA

#### **CURRICULUM: [CBK-B] NEURO-AI**

### **1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features NEURO-AI**

Learning activity	Ects	Sector
Brain modelling for biomedicine and ICT	6	BIO/09
Neurophysiology and biophysics for AI	6	BIO/09
Total compulsory credits	12	

### **Elective courses Curriculum-specific elective courses for NEURO-AI**

Knowledge representation and reasoning	6	INF/01
Natural language processing	6	INF/01
Programming	6	INF/01
Logics for AI	6	M-FIL/02
Methodology of data-driven reasoning	6	M-FIL/02
Philosophy of cognitive neuroscience	6	M-FIL/02

### **2nd COURSE YEAR (available as of academic year 2026/27) Core/compulsory courses/activities Curriculum-specific features NEURO-AI**

Learning activity	Ects	Sector
AI applied to neuroimaging	6	(1) ING-INF/06, (2)

AI applied to neurological sciences and brain-computer interfaces	6	FIS/07, (3) MED/37 (3) M-PSI/02, (3) MED/26
Total compulsory credits	12	
<b><i>Elective courses Curriculum-specific elective courses for NEURO-AI</i></b>		
Human-computer interaction	6	INF/01
Machine learning for collaborative intelligent systems	6	ING-INF/05
Neuromorphic computing for AI solutions and neuro-robotics	6	(3) ING-INF/05, (3) ING-INF/06
	3	NA

**CURRICULUM: [CBK-C] AI AND LAW**

<b><i>1st COURSE YEAR Core/compulsory courses/activities Curriculum-specific features AI AND LAW</i></b>		
<b>Learning activity</b>	<b>Ects</b>	<b>Sector</b>
AI and media law	6	IUS/08
Data protection, law and AI	6	IUS/20
Total compulsory credits	12	
<b><i>Elective courses Curriculum-specific elective courses for AI AND LAW</i></b>		
Knowledge representation and reasoning	6	INF/01
Natural language processing	6	INF/01
Programming	6	INF/01
Logics for AI	6	M-FIL/02
Methodology of data-driven reasoning	6	M-FIL/02
Philosophy of cognitive neuroscience	6	M-FIL/02
<b><i>2nd COURSE YEAR (available as of academic year 2026/27) Elective courses Curriculum-specific elective courses for AI AND LAW</i></b>		
Corporate governance and AI	6	IUS/04
Responsibility and AI	6	(3) IUS/14, (3) IUS/02
Sources of law and fundamental rights in AI	6	IUS/08
Data analysis and tax compliance	6	(3) SECS-S/01, (3) IUS/12
Digital surveillance, employee monitoring and selection by AI	6	IUS/07
Justice by algorithm	6	(3) IUS/16, (3) INF/01
AI and public administration	6	(3) INF/01, (3) IUS/10
Banking and insurance law	6	(3) MAT/06, (3) IUS/04
Multilevel protection of rights in AI	6	(3) IUS/13, (3) IUS/14
Smart contracts and intellectual property law	6	(3) IUS/01, (3) INF/01
	3	NA

**COURSE PROGRESSION REQUIREMENTS**

Having passed at least one programming course in a Bachelor or Master Degree, including the present one, is propaedeutic for sitting the Machine Learning exam.