

University of Pavia
Study Course: COMPUTER ENGINEERING - 06415
Classe LM-32 Ingegneria informatica
Regulations 2012/2013 - Course Regulations a.y. 2022/2023

Study Plan academic year 2023/2024

STUDENT NUMBER N. SURNAME- NAME

TRACK 02 - COMPUTER SCIENCE AND MULTIMEDIA

1° Year - academic year 2022/2023

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
507320 - DIGITAL CONTENT RETRIEVAL	12	1		X	ING-INF/05	Distinctive	
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	
504703 - COMPUTER VISION	6	4		X	ING-INF/05	Distinctive	
509072 - WEB AND MULTIMEDIA TECHNOLOGIES	6	5		X	ING-INF/05	Distinctive	
505000 - RADAR REMOTE SENSING	6	6*			ING-INF/03	Related/Supplementary	
504464 - ORGANIZATION THEORY AND DESIGN	6	6*			SECS-P/06	Related/Supplementary	
504713 - ENTERPRISE DIGITAL INFRASTRUCTURE	12	7		X	ING-INF/05	Distinctive	
504709 - HUMAN COMPUTER INTERACTION	6	8		X	ING-INF/05	Distinctive	
TOT. 60 CFU							

*Choose 6 CFU for choice n°6

2° Year - academic year 2023/2024

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504707 - ARTIFICIAL INTELLIGENCE	6	9		X	ING-INF/05	Related/Supplementary	
504718 - INFORMATION SECURITY	6	10		X	ING-INF/05	Distinctive	
509584 - CLOUD COMPUTING	6	11*			ING-INF/05	Distinctive	
504719 - ROBOTICS	6	11*			ING-INF/05	Distinctive	
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12	12*-13*				Optional	
507288 - INTERNET AND MULTIMEDIA	6	12*-13*			ING-INF/03	Optional	

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504462 - PROCESS CONTROL	6	12*-13*			ING-INF/04	Optional	
509380 - PARALLEL PROGRAMMING	6	12*-13*			ING-INF/05	Optional	
504719 - ROBOTICS	6	12*-13*			ING-INF/05	Optional	
509584 - CLOUD COMPUTING	6	12*-13*			ING-INF/05	Optional	
505018 - SATELLITE DATA ANALYSIS	6	12*-13*			ING-INF/03	Optional	
509073 - DEEP LEARNING	6	12-13*			ING-INF/05	Optional	
504464 - ORGANIZATION THEORY AND DESIGN	6	12*-13*			SECS-P/06	Optional	
501246 - ETICA AMBIENTALE	3	14*			SECS-P/13	Other	
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14*			ING-IND/35	Other	
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14*			ING-INF/06	Other	
510172 - ETICA PER LA PROGETTAZIONE SOSTENIBILE	6	14*			SECS-P/13	Other	
504722 - PROJECT WORK IN COMPUTER ENGINEERING	6	14*			NN	Other	
503327 - MASTER THESIS	24			X	PROFIN_S	Final Exam	
TOT. 60 CFU							

*Choose 6 CFU for choice n°9; choose 6 CFU for choice n° 11; choose 12 CFU for choices n°12-13; choose 6 CFU for choice n°14

TRACK 08 - DATA SCIENCE

1° Year - academic year 2022/2023

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
507320 - DIGITAL CONTENT RETRIEVAL	12	1		X	ING-INF/05	Distinctive	
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	
504707 - ARTIFICIAL INTELLIGENCE	6	4		X	ING-INF/05	Distinctive	
509070 - STATISTICAL LEARNING THEORY	6	5		X	ING-INF/04	Distinctive	
509074 - DATA SCIENCE AND BIG DATA ANALYTICS	6	6		X	ING-INF/05	Distinctive	
504713 - ENTERPRISE DIGITAL INFRASTRUCTURE	12	7		X	ING-INF/05	Distinctive	
509071 - MACHINE LEARNING	6	8		X	ING-INF/05	Distinctive	
TOT. 60 CFU							

2° Year - academic year 2023/2024

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Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
505018 - SATELLITE DATA ANALYSIS	6	9		X	ING-INF/03	Related/Supplementary	
504718 - INFORMATION SECURITY	6	10		X	ING-INF/05	Distinctive	
509076 - FINANCIAL DATA SCIENCE	6	11		X	SECS-P/01	Related/Supplementary	
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12					Optional	
509584 - CLOUD COMPUTING	6	12-13*			ING-INF/05	Optional	
509380 - PARALLEL PROGRAMMING	6	12*-13*			ING-INF/05	Optional	
509073 - DEEP LEARNING	6	12-13*			ING-INF/05	Optional	
508734 - ADVANCED BIOMEDICAL MACHINE LEARNING	6	12-13*			ING-INF/06	Optional	
509005 - OPTIMIZATION MODELS AND ALGORITHMS FOR DATA SCIENCE	6	12-13*			MAT/09	Optional	
501246 - ETICA AMBIENTALE	3	14*			SECS-P/13	Other	
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14*			ING-IND/35	Other	
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14*			ING-INF/06	Other	
510172 - ETICA PER LA PROGETTAZIONE SOSTENIBILE	6	14*			SECS-P/13	Other	
504722 - PROJECT WORK IN COMPUTER ENGINEERING	6	14*			NN	Other	
503327 - MASTER THESIS	24			X	PROFIN_S	Final Exam	
TOT. 60 CFU							

*Choose 12 CFU for choices n°12-13; choose 6 CFU for choice n°14

TRACK 09 - EMBEDDED IOT SYSTEMS

1° Year - academic year 2022/2023

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504714 - PROCESS CONTROL AND ROBOTICS	12	1		X			
Teaching Unit of PROCESS CONTROL AND ROBOTICS							
504462 - PROCESS CONTROL	6				ING-INF/04	Distinctive	
504463 - ROBOT CONTROL	6				ING-INF/04	Distinctive	
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	
510173 - IOT MOBILE PROGRAMMING	6	4		X	ING-INF/05	Distinctive	
504716 - INDUSTRIAL INFORMATICS AND EMBEDDED SYSTEMS	9	5		X	ING-INF/05	Distinctive	
504717 - INDUSTRIAL CONTROL	6	6		X	ING-INF/04	Distinctive	

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509071 - MACHINE LEARNING	6	7		X	ING-INF/05	Distinctive	
504464 - ORGANIZATION THEORY AND DESIGN	6	8*			SECS-P/06	Related/Supplementary	
509037 - HARDWARE SOFTWARE CODESIGN	6	8*			ING-INF/05	Related/Supplementary	
509380 - PARALLEL PROGRAMMING	6	8*			ING-INF/05	Related/Supplementary	
TOT. 57 CFU							

2° Year - academic year 2023/2024

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504719 - ROBOTICS	6	9		X	ING-INF/05	Distinctive	
504723 - ELECTRICAL DRIVES FOR INDUSTRIAL APPLICATIONS	9	10		X	ING-IND/32	Related/Supplementary	
509037 - HARDWARE SOFTWARE CODESIGN	6	11*			ING-INF/05	Distinctive	
509584 - CLOUD COMPUTING	6	11*			ING-INF/05	Distinctive	
509380 - PARALLEL PROGRAMMING	6	11*			ING-INF/05	Distinctive	
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12	12*-13*				Optional	
509037 - HARDWARE SOFTWARE CODESIGN	6	12*-13*			ING-INF/05	Optional	
509073 - DEEP LEARNING	6	12*-13*			ING-INF/05	Optional	
510150 - MICROSENSORS, INTEGRATED MICROSYSTEMS AND MEMS	6	12*-13*			ING-INF/01	Optional	
509072 - WEB AND MULTIMEDIA TECHNOLOGIES	6	12*-13*			ING-INF/05	Optional	
502975 - PROGETTO DI SISTEMI DIGITALI	6	12*-13*			ING-INF/05	Optional	
509584 - CLOUD COMPUTING	6	12*-13*			ING-INF/05	Optional	
509380 - PARALLEL PROGRAMMING	6	12*-13*			ING-INF/05	Optional	
501246 - ETICA AMBIENTALE	3	14*			SECS-P/13	Other	
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14*			ING-IND/35	Other	
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14*			ING-INF/06	Other	
510172 - ETICA PER LA PROGETTAZIONE SOSTENIBILE	6	14*			SECS-P/13	Other	
504722 - PROJECT WORK IN COMPUTER ENGINEERING	6	14*			NN	Other	
503327 - MASTER THESIS	24			X	PROFIN_S	Final Exam	

TOT. 63 CFU							
*Choose 6 CFU for n°12, Choose 6 CFU for n° 13 and Choose 6 CFU for n° 14.							

TRACK 10 - INTELLIGENT CONTROL SYSTEMS

1° Year - academic year 2022/2023

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504714 - PROCESS CONTROL AND ROBOTICS	12	1		X			
Teaching Unit of PROCESS CONTROL AND ROBOTICS							
504462 - PROCESS CONTROL	6				ING-INF/04	Distinctive	
504463 - ROBOT CONTROL	6				ING-INF/04	Distinctive	
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	
504707 - ARTIFICIAL INTELLIGENCE	6	4		X	ING-INF/05	Distinctive	
509070 - STATISTICAL LEARNING THEORY	6	5		X	ING-INF/04	Distinctive	
504464 - ORGANIZATION THEORY AND DESIGN	6	6			SECS-P/06	Related/Supplementary	
509073 - DEEP LEARNING	6	6			ING-INF/05	Related/Supplementary	
509071 - MACHINE LEARNING	6	7		X	ING-INF/05	Distinctive	
504717 - INDUSTRIAL CONTROL	6	8		X	ING-INF/04	Distinctive	
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	9*				Optional	
509073 - DEEP LEARNING	6	9*			ING-INF/05	Optional	
509074 - DATA SCIENCE AND BIG DATA ANALYTICS	6	9*			ING-INF/05	Optional	
509005 - OPTIMIZATION MODELS AND ALGORITHMS FOR DATA SCIENCE	6	9*			MAT/09	Optional	
509380 - PARALLEL PROGRAMMING	6	9*			ING-INF/05	Optional	
TOT. 60 CFU							

2° Year - academic year 2023/2024

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504719 - ROBOTICS	6	10		X	ING-INF/05	Distinctive	
504703 - COMPUTER VISION	6	11		X	ING-INF/05	Related/Supplementary	
504715 - ADVANCED AUTOMATION AND CONTROL	12	12		X	ING-INF/04	Distinctive	

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FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	13*				Optional	
509073 - DEEP LEARNING	6	13*			ING-INF/05	Optional	
509072 - WEB AND MULTIMEDIA TECHNOLOGIES	6	13*			ING-INF/05	Optional	
510150 - MICROSENSORS, INTEGRATED MICROSYSTEMS AND MEMS	6	13*			ING-INF/01	Optional	
507219 - LOGISTICS MANAGEMENT	6	13*			ING-IND/17	Optional	
501246 - ETICA AMBIENTALE	3	14*			SECS-P/13	Other	
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14*			ING-IND/35	Other	
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14*			ING-INF/06	Other	
510172 - ETICA PER LA PROGETTAZIONE SOSTENIBILE	6	14*			SECS-P/13	Other	
504722 - PROJECT WORK IN COMPUTER ENGINEERING	6	14*			NN	Other	
503327 - MASTER THESIS	24			X	PROFIN_S	Final Exam	
TOT. 60 CFU							
*Choose 6 CFU for n° 13 and Choose 6 CFU for n° 14.							

- [For the semester assigned to each training activity, refer to the timetable published on the Faculty website](#)
- [For more information please refer to the course catalogue](#)

Date

Signature

The study plan is not to be modified. Students can apply for an exception but they have to submit a valid motive. When a student submit a change which is not proposed in a standard study plan, the study plan became an individual study plan.

In order to do so, draw a line on the subject you wish to change, add the new subject in the orange boxes at the end of the study plan.

Insert the progressive number assigned to the subject you wish to change.

Please note that a revenue stamp of 16€ is due to apply for an individual study plan. This new plan will have to be approved

by the committee designated by the competent Teaching Council.