

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 2022/2023

To be submitted online from November 2nd to November 30th 2022 (enrolled student only)

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	All Year
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	First Semester
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	First Semester
504703 - COMPUTER VISION	6	4		X	ING-INF/05	Distinctive	First Semester
509072 - WEB AND MULTIMEDIA TECHNOLOGIES	6	5		X	ING-INF/05	Distinctive	First Semester
505000 - RADAR REMOTE SENSING	6	6*			ING-INF/03	Related/Supplementary	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	6*			SECS-P/06	Related/Supplementary	Second Semester
504713 - ENTERPRISE DIGITAL INFRASTRUCTURE	12	7		X	ING-INF/05	Distinctive	Second Semester
504709 - HUMAN COMPUTER INTERACTION	6	8		X	ING-INF/05	Distinctive	Second Semester
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	First Semester
504718 - INFORMATION SECURITY	6	10		X	ING-INF/05	Distinctive	First Semester
509584 - CLOUD COMPUTING	6	11*			ING-INF/05	Distinctive	First Semester
504719 - ROBOTICS	6	11*			ING-INF/05	Distinctive	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12	12*-13*				Optional	
507288 - INTERNET AND MULTIMEDIA	6	12*-13*			ING-INF/03	Optional	First Semester

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504462 - PROCESS CONTROL	6	12*-13*			ING-INF/04	Optional	First Semester
509380 - PARALLEL PROGRAMMING	6	12*-13*			ING-INF/05	Optional	Second Semester
504719 - ROBOTICS	6	12*-13*			ING-INF/05	Optional	First Semester
509584 - CLOUD COMPUTING	6	12*-13*			ING-INF/05	Optional	First Semester
505018 - SATELLITE DATA ANALYSIS	6	12*-13*			ING-INF/03	Optional	First Semester
510171 - DIGITAL TRANSFORMATION PROJECTS	6	12*-13*			ING-INF/05	Optional	First Semester
509073 - DEEP LEARNING	6	12-13*			ING-INF/05	Optional	Second semester
504464 - ORGANIZATION THEORY AND DESIGN	6	12*-13*			SECS-P/06	Optional	Second Semester
501246 - ETICA AMBIENTALE	3	14*			SECS-P/13	Other	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14*			ING-IND/35	Other	Second Semester
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14*			ING-INF/06	Other	Second Semester
510172 - ETICA PER LA PROGETTAZIONE SOSTENIBILE	6	14*			SECS-P/13	Other	Second Semester
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	All Year
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	First Semester
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	First Semester
504707 - ARTIFICIAL INTELLIGENCE	6	4		X	ING-INF/05	Distinctive	First Semester
509070 - STATISTICAL LEARNING THEORY	6	5		X	ING-INF/04	Distinctive	First Semester
509074 - DATA SCIENCE AND BIG DATA ANALYTICS	6	6		X	ING-INF/05	Distinctive	Second Semester
504713 - ENTERPRISE DIGITAL INFRASTRUCTURE	12	7		X	ING-INF/05	Distinctive	Second Semester
509071 - MACHINE LEARNING	6	8		X	ING-INF/05	Distinctive	Second Semester
TOT. 60 CFU							

2° Year - academic year 2023/2024

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	First Semester
504718 - INFORMATION SECURITY	6	10		X	ING-INF/05	Distinctive	First Semester
509076 - FINANCIAL DATA SCIENCE	6	11		X	SECS-P/01	Related/Supplementary	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12					Optional	
509584 - CLOUD COMPUTING	6	12-13*			ING-INF/05	Optional	First Semester
509033 - SOFTWARE PROJECT FOR DIGITAL TRANSFORMATION	6	12*-13*			ING-INF/05	Optional	First Semester
509380 - PARALLEL PROGRAMMING	6	12*-13*			ING-INF/05	Optional	Second Semester
509073 - DEEP LEARNING	6	12-13*			ING-INF/05	Optional	Second semester
508734 - ADVANCED BIOMEDICAL MACHINE LEARNING	6	12-13*			ING-INF/06	Optional	Second semester
509005 - OPTIMIZATION MODELS AND ALGORITHMS FOR DATA SCIENCE	6	12-13*			MAT/09	Optional	Second Semester
501246 - ETICA AMBIENTALE	3	14*			SECS-P/13	Other	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14*			ING-IND/35	Other	Second Semester
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14*			ING-INF/06	Other	Second Semester
510172 - ETICA PER LA PROGETTAZIONE SOSTENIBILE	6	14*			SECS-P/13	Other	Second Semester
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			All Year
Teaching Unit of PROCESS CONTROL AND ROBOTICS							
504462 - PROCESS CONTROL	6				ING-INF/04	Distinctive	First Semester
504463 - ROBOT CONTROL	6				ING-INF/04	Distinctive	Second Semester
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	First Semester
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	First Semester

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510173 - IOT MOBILE PROGRAMMING	6	4		X	ING-INF/05	Distinctive	First Semester
504716 - INDUSTRIAL INFORMATICS AND EMBEDDED SYSTEMS	9	5		X	ING-INF/05	Distinctive	Second Semester
504717 - INDUSTRIAL CONTROL	6	6		X	ING-INF/04	Distinctive	Second Semester
509071 - MACHINE LEARNING	6	7		X	ING-INF/05	Distinctive	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	8*			SECS-P/06	Related/Supplementary	Second Semester
509037 - HARDWARE SOFTWARE CODESIGN	6	8*			ING-INF/05	Related/Supplementary	First Semester
509380 - PARALLEL PROGRAMMING	6	8*			ING-INF/05	Related/Supplementary	Second Semester
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	First Semester
504723 - ELECTRICAL DRIVES FOR INDUSTRIAL APPLICATIONS	9	10		X	ING-IND/32	Related/Supplementary	First Semester
509037 - HARDWARE SOFTWARE CODESIGN	6	11*			ING-INF/05	Distinctive	First Semester
509584 - CLOUD COMPUTING	6	11*			ING-INF/05	Distinctive	First Semester
509380 - PARALLEL PROGRAMMING	6	11*			ING-INF/05	Distinctive	Second Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12	12*-13*				Optional	
509037 - HARDWARE SOFTWARE CODESIGN	6	12*-13*			ING-INF/05	Optional	First Semester
509073 - DEEP LEARNING	6	12*-13*			ING-INF/05	Optional	Second semester
510150 - MICROSENSORS, INTEGRATED MICROSYSTEMS AND MEMS	6	12*-13*			ING-INF/01	Optional	First Semester
509072 - WEB AND MULTIMEDIA TECHNOLOGIES	6	12*-13*			ING-INF/05	Optional	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	12*-13*			ING-INF/05	Optional	First Semester
509584 - CLOUD COMPUTING	6	12*-13*			ING-INF/05	Optional	First Semester
509380 - PARALLEL PROGRAMMING	6	12*-13*			ING-INF/05	Optional	Second Semester
501246 - ETICA AMBIENTALE	3	14*			SECS-P/13	Other	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14*			ING-IND/35	Other	Second Semester
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14*			ING-INF/06	Other	Second Semester
510172 - ETICA PER LA PROGETTAZIONE SOSTENIBILE	6	14*			SECS-P/13	Other	Second Semester

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

2° Year - academic year 2023/2024

Learning Activity	CFU	N°	N° (ind.)	Compu Isory	Scientific Area	Type of learning activity	Period
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504719 - ROBOTICS	6	10		X	ING-INF/05	Distinctive	First Semester
504703 - COMPUTER VISION	6	11		X	ING-INF/05	Related/Supplementary	First Semester
504715 - ADVANCED AUTOMATION AND CONTROL	12	12		X	ING-INF/04	Distinctive	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	13*				Optional	
509073 - DEEP LEARNING	6	13*			ING-INF/05	Optional	Second semester
509072 - WEB AND MULTIMEDIA TECHNOLOGIES	6	13*			ING-INF/05	Optional	First Semester
510150 - MICROSENSORS, INTEGRATED MICROSYSTEMS AND MEMS	6	13*			ING-INF/01	Optional	First Semester
507219 - LOGISTICS MANAGEMENT	6	13*			ING-IND/17	Optional	First Semester
501246 - ETICA AMBIENTALE	3	14*			SECS-P/13	Other	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14*			ING-IND/35	Other	Second Semester
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14*			ING-INF/06	Other	Second Semester
510172 - ETICA PER LA PROGETTAZIONE SOSTENIBILE	6	14*			SECS-P/13	Other	Second Semester
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.							

- [The semester assigned to each learning activity may change. Refer to the time schedule published in the faculty website for confirmation.](#)
- [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.