

## University of Pavia

## Study Course: INDUSTRIAL AUTOMATION ENGINEERING - 06417

Classe LM-25 Ingegneria dell'automazione

Regulations 2015/2016 - Course Regulations a.y. 2023/2024

Study Plan academic year 2023/2024

STUDENT NUMBER N. .... SURNAME- NAME .....

## TRACK 01 - ROBOTICS AND MECHATRONICS

## 1° Year - academic year 2023/2024

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 Units PROCESS CONTROL AND ROBOTICS							
504462 - PROCESS CONTROL	6				ING-INF/04	Distinctive	First Semester
504463 - ROBOT CONTROL	6				ING-INF/04	Distinctive	Second Semester
507218 - ELECTRONICS FOR INDUSTRIAL MEASUREMENTS	6	2		X	ING-INF/01	Related/Supplementary	First Semester
510799 - ALGORITHMS AND SYSTEMS FOR ROBOTICS	6	3		X	ING-INF/05	Related/Supplementary	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	4				Optional	
500544 - ELETTRONICA	6	4			ING-INF/01	Optional	First Semester
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	4			MAT/08	Optional	First Semester
504707 - ARTIFICIAL INTELLIGENCE	6	4			ING-INF/05	Optional	First Semester
507219 - LOGISTICS MANAGEMENT	6	4			ING-IND/17	Optional	First Semester
507215 - STRATEGIC MANAGEMENT AND BUSINESS PLANNING	6	4			SECS-P/08	Optional	Second Semester
502522 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI A	6	4			ING-INF/04	Optional	First Semester
504703 - COMPUTER VISION	6	5			ING-INF/05	Related/Supplementary	First Semester
507282 - MECCATRONICA	6	5			ING-INF/05	Related/Supplementary	First Semester
508100 - AUTOMATED MECHANICAL SYSTEM DESIGN	6	6		X	ING-IND/13	Distinctive	Second Semester
504717 - INDUSTRIAL CONTROL	6	7		X	ING-INF/04	Distinctive	Second Semester
509674 - POWER ELECTRONICS	6	8		X	IND-IND/32	Distinctive	Second Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	9				Optional	
505012 - LASER SAFETY	6	9			FIS/03	Optional	Second Semester
509074 - DATA SCIENCE AND BIG DATA ANALYTICS	6	9			ING-INF/05	Optional	Second Semester
509071 - MACHINE LEARNING	6	9			ING-INF/05	Optional	Second Semester

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504464 - ORGANIZATION THEORY AND DESIGN	6	9			SECS-P/06	Optional	Second Semester
502594 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI B	6	9			ING-INF/04	Optional	Second Semester
<b>TOT. 60 CFU</b>							

**2° Year - academic year 2024/2025**

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504723 - ELECTRICAL DRIVES FOR INDUSTRIAL APPLICATIONS	6	10		X	ING-IND/32	Distinctive	First Semester
510805 - NONLINEAR CONTROL AND OPTIMIZATION	12	11		X	ING-INF/04	Distinctive	First Semester
Teaching Units NONLINEAR CONTROL AND OPTIMIZATION							
510806 - NONLINEAR CONTROL	6				ING-INF/04	Distinctive	First Semester
510807 - OPTIMIZATION FOR CONTROL	6				ING-INF/04	Distinctive	First Semester
507214 - WIRED AND WIRELESS COMMUNICATION SYSTEMS	6	12		X	ING-INF/03	Related/Supplementary	First Semester
509684 - APPLIED ROBOTICS TECHNOLOGIES	9	13		X	ING-IND/13	Distinctive	First Semester
509536 - ITALIAN LANGUAGE FOR FOREIGN STUDENTS	3	14			NN	Other	First Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14			ING-IND/35	Other	Second Semester
509683 - SAFETY IN ENGINEERING AND TECHNOLOGY	3	14			ING-IND/31	Other	Second Semester
508303 - ENERGY EFFICIENCY IN COMPRESSED AIR SYSTEMS	3	14			ING-IND/32	Other	Second Semester
510808 - INDUSTRIAL PROJECT	3	14			NN	Other	
503327 - MASTER THESIS	24				PROFIN_S	Final Exam	
<b>TOT. 60 CFU</b>							

**TRACK 02 - INDUSTRIAL TECHNOLOGIES AND MANAGEMENT**

**1° Year - academic year 2023/2024**

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 Units PROCESS CONTROL AND ROBOTICS							
504462 - PROCESS CONTROL	6				ING-INF/04	Distinctive	First Semester
504463 - ROBOT CONTROL	6				ING-INF/04	Distinctive	Second Semester
507218 - ELECTRONICS FOR INDUSTRIAL MEASUREMENTS	6	2		X	ING-INF/01	Related/Supplementary	First Semester
507219 - LOGISTICS MANAGEMENT	6	3		X	ING-IND/17	Related/Supplementary	First Semester

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FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	4				Optional	
500544 - ELETTRONICA	6	4			ING-INF/01	Optional	First Semester
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	4			MAT/08	Optional	First Semester
504707 - ARTIFICIAL INTELLIGENCE	6	4			ING-INF/05	Optional	First Semester
509079 - ENERGY MARKETS AND SUPPLY STRUCTURE	6	4			ING-IND/32	Optional	First Semester
502522 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI A	6	4			ING-INF/04	Optional	First Semester
510188 - ECONOMICS OF DIGITAL MARKETS	6	4			SECS-P/01	Optional	Second Semester
507215 - STRATEGIC MANAGEMENT AND BUSINESS PLANNING	6	5		X	SECS-P/08	Related/Supplementary	Second Semester
508100 - AUTOMATED MECHANICAL SYSTEM DESIGN	6	6		X	ING-IND/13	Distinctive	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	7		X	SECS-P/06	Related/Supplementary	Second Semester
509674 - POWER ELECTRONICS	6	8		X	IND-IND/32	Distinctive	Second Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	9				Optional	
505012 - LASER SAFETY	6	9			FIS/03	Optional	Second Semester
509074 - DATA SCIENCE AND BIG DATA ANALYTICS	6	9			ING-INF/05	Optional	Second Semester
509071 - MACHINE LEARNING	6	9			ING-INF/05	Optional	Second Semester
502594 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI B	6	9			ING-INF/04	Optional	Second Semester
<b>TOT. 60 CFU</b>							

**2° Year - academic year 2024/2025**

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504723 - ELECTRICAL DRIVES FOR INDUSTRIAL APPLICATIONS	6	10		X	ING-IND/32	Distinctive	First Semester
510805 - NONLINEAR CONTROL AND OPTIMIZATION	12	11		X	ING-INF/04	Distinctive	First Semester
Teaching Units NONLINEAR CONTROL AND OPTIMIZATION							
510806 - NONLINEAR CONTROL	6				ING-INF/04	Distinctive	First Semester
510807 - OPTIMIZATION FOR CONTROL	6				ING-INF/04	Related/Supplementary	First Semester
507216 - LEAN PRODUCTION	6	12		X	ING-IND/17	Related/Supplementary	First Semester
509684 - APPLIED ROBOTICS TECHNOLOGIES	9	13		X	ING-IND/13	Distinctive	First Semester
509536 - ITALIAN LANGUAGE FOR FOREIGN STUDENTS	3	14			NN	Other	First Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14			ING-IND/35	Other	Second Semester
509683 - SAFETY IN ENGINEERING AND TECHNOLOGY	3	14			ING-IND/31	Other	Second Semester

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508303 - ENERGY EFFICIENCY IN COMPRESSED AIR SYSTEMS	3	14			ING-IND/32	Other	Second Semester
510808 - INDUSTRIAL PROJECT	3	14			NN	Other	
503327 - MASTER THESIS	24				PROFIN_S	Final Exam	
<b>TOT. 63 CFU</b>							

- [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.**