

# University of Pavia

## Study Course: INDUSTRIAL AUTOMATION ENGINEERING - 06417

Classe LM-25 Ingegneria dell'automazione

Regulations 2015/2016 - Course Regulations a.y. 2018/2019

### Study Plan academic year 2019/2020

To be submitted online from 22nd October 2019 to 12th November 2019 (enrolled student only)

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

### TRACK 01 - ROBOTICS AND MECHATRONICS

#### 1° Year - academic year 2018/2019

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
500543 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI	12	1*					All Year
Teaching Units							
502522 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI A	6				ING-INF/04	Distinctive	First Semester
502594 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI B	6				ING-INF/04	Distinctive	Second Semester
504714 - PROCESS CONTROL AND ROBOTICS	12	1*					All Year
Teaching Units							
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
504715 - ADVANCED AUTOMATION AND CONTROL	9	3		X	ING-INF/04	Distinctive	All Year
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	4*				Optional	
502522 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI A**	6	4*			ING-INF/04	Optional	First Semester
507219 - LOGISTICS MANAGEMENT	6	4*			ING-IND/17	Optional	First Semester
504462 - PROCESS CONTROL**	6	4*			ING-INF/04	Optional	First Semester
500544 - ELETTRONICA	6	4*			ING-INF/01	Optional	First Semester
504062 - CONVERSIONE STATICA DELL'ENERGIA	6	4*			ING-INF/01	Optional	Second Semester

507282 - MECCATRONICA	6	4*			ING-INF/05	Optional	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	4*			ING-INF/05	Optional	First Semester
504063 - COMPLEMENTI DI MECCANICA APPLICATA	6	4*			ING-IND/13	Optional	First Semester
507215 - STRATEGIC MANAGEMENT AND BUSINESS PLANNING	6	4*			SECS-P/08	Optional	First Semester
502862 - MODELLI COSTITUTIVI DEI MATERIALI	6	4*			ICAR/08	Optional	First Semester
508100 - AUTOMATED MECHANICAL SYSTEM DESIGN	6	5		X	ING-IND/13	Distinctive	Second Semester
504716 - INDUSTRIAL INFORMATICS AND EMBEDDED SYSTEMS	6	6		X	ING-INF/05	Related/Supplementary	Second Semester
504717 - INDUSTRIAL CONTROL	6	7		X	ING-INF/04	Distinctive	Second Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	8*				Optional	
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	8*			SECS-P/06	Optional	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	8*			SECS-P/06	Optional	Second Semester
502594 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI B**	6	8*			ING-INF/04	Optional	Second Semester
504463 - ROBOT CONTROL**	6	8*			ING-INF/04	Optional	Second Semester
503135 - SISTEMI E COMPONENTI PER L'AUTOMAZIONE	6	8*			ING-IND/32	Optional	Second Semester
502861 - ELEMENTI DI MECCANICA COMPUTAZIONALE	6	8*			ICAR/08	Optional	Second Semester
504989 - NONLINEAR COMPUTATIONAL MECHANICS	6	8*			ICAR/08	Optional	Second Semester
<b>TOT. 57 CFU</b>							

\*\* Do not choose this exam if you have already chosen "Process Control and Robotics" as choice n°1

\*\* Do not choose this exam if you have already chosen "IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI" as choice n°1

\*Choose either IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI or PROCESS CONTROLL AND ROBOTICS for choice n°1; Choose 6 CFU for choice n°4: Choose 6 CFU for choice n°8

## 2° Year - academic year 2019/2020

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504719 - ROBOTICS	6	9		X	ING-INF/05	Related/Supplementary	First Semester
507217 - AUTOMATION AND COMMUNICATION IN INDUSTRIAL SYSTEMS	6	10		X	ING-IND/32	Distinctive	First Semester
504723 - ELECTRICAL DRIVES FOR INDUSTRIAL APPLICATIONS	12	11		X	ING-IND/32	Distinctive	First Semester
507214 - WIRED AND WIRELESS COMMUNICATION SYSTEMS	6	12		X	ING-INF/03	Related/Supplementary	First Semester

507216 - LEAN PRODUCTION	6	13*			ING-IND/17	Related/Supplementary	First Semester
507219 - LOGISTICS MANAGEMENT	6	13*			ING-IND/17	Related/Supplementary	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
500376 - PROGRESSO UMANO E SVILUPPO SOSTENIBILE	3	14*			SECS-P/02	Other	Second Semester
503313 - TRAZIONE ELETTRICA	3	14*			ING-IND/31	Other	Second Semester
503327 - MASTER THESIS	24				PROFIN_S	Final Exam	
<b>TOT. 63 CFU</b>							

\*Choose 6 CFU for choice n°13: Choose 3 CFU for choice n°14

## TRACK 02 - INDUSTRIAL TECHNOLOGIES AND MANAGEMENT

### 1° Year - academic year 2018/2019

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
500543 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI	12	1*					All Year
Teaching Units							
502522 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI A	6				ING-INF/04	Distinctive	First Semester
502594 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI B	6				ING-INF/04	Distinctive	Second Semester
504714 - PROCESS CONTROL AND ROBOTICS	12	1*					All Year
Teaching Units							
504462 - PROCESS CONTROL	6				ING-INF/04	Distinctive	First Semester
504463 - ROBOT CONTROL	6				ING-INF/04	Distinctive	Second Semester
507215 - STRATEGIC MANAGEMENT AND BUSINESS PLANNING	6	2		X	SECS-P/08	Related/Supplementary	First Semester
504715 - ADVANCED AUTOMATION AND CONTROL	9	3		X	ING-INF/04	Distinctive	All Year
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	4*				Optional	
507218 - ELECTRONICS FOR INDUSTRIAL MEASUREMENTS	6	4*			ING-INF/01	Optional	First Semester
502522 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI A**	6	4*			ING-INF/04	Optional	First Semester
502594 - IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI B**	6	4*			ING-INF/04	Optional	Second Semester
504463 - ROBOT CONTROL**	6	4*			ING-INF/04	Optional	Second Semester

504462 - PROCESS CONTROL**	6	4*			ING-INF/04	Optional	First Semester
500544 - ELETTRONICA	6	4*			ING-INF/01	Optional	First Semester
504062 - CONVERSIONE STATICA DELL'ENERGIA	6	4*			ING-INF/01	Optional	Second Semester
507282 - MECCATRONICA	6	4*			ING-INF/05	Optional	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	4*			ING-INF/05	Optional	First Semester
504063 - COMPLEMENTI DI MECCANICA APPLICATA	6	4*			ING-IND/13	Optional	First Semester
508100 - AUTOMATED MECHANICAL SYSTEM DESIGN	6	5		X	ING-IND/13	Distinctive	Second Semester
504716 - INDUSTRIAL INFORMATICS AND EMBEDDED SYSTEMS	6	6		X	ING-INF/05	Related/Supplementary	Second Semester
504717 - INDUSTRIAL CONTROL	6	7		X	ING-INF/04	Distinctive	Second Semester
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	8*			SECS-P/06	Related/Supplementary	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	8*			SECS-P/06	Related/Supplementary	Second Semester
<b>TOT. 57 CFU</b>							

\*\* Do not choose this exam if you have already chosen "Process Control and Robotics" as choice n°1

\*\* Do not choose this exam if you have already chosen "IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI" as choice n°1

\*Choose either IDENTIFICAZIONE DEI MODELLI E ANALISI DEI DATI or PROCESS CONTROL AND ROBOTICS for choice n°1; Choose 6 CFU for choice n°4; Choose 6 CFU for choice n°8

<b>2° Year - academic year 2019/2020</b>							
Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504719 - ROBOTICS	6	9		X	ING-INF/05	Related/Supplementary	First Semester
504723 - ELECTRICAL DRIVES FOR INDUSTRIAL APPLICATIONS	12	10		X	ING-IND/32	Distinctive	First Semester
507219 - LOGISTICS MANAGEMENT	6	11		X	ING-IND/17	Related/Supplementary	First Semester
507216 - LEAN PRODUCTION	6	12		X	ING-IND/17	Related/Supplementary	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	13*				Optional	
504462 - PROCESS CONTROL	6	13*			ING-INF/04	Optional	First Semester
500544 - ELETTRONICA	6	13*			ING-INF/01	Optional	First Semester
504062 - CONVERSIONE STATICA DELL'ENERGIA	6	13*			ING-INF/01	Optional	Second Semester
507282 - MECCATRONICA	6	13*			ING-INF/05	Optional	First Semester

502975 - PROGETTO DI SISTEMI DIGITALI	6	13*			ING-INF/05	Optional	First Semester
504063 - COMPLEMENTI DI MECCANICA APPLICATA	6	13*			ING-IND/13	Optional	First Semester
507214 - WIRED AND WIRELESS COMMUNICATION SYSTEMS	6	13*			ING-INF/03	Optional	First Semester
507218 - ELECTRONICS FOR INDUSTRIAL MEASUREMENTS	6	13*			ING-INF/01	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
500376 - PROGRESSO UMANO E SVILUPPO SOSTENIBILE	3	14*			SECS-P/02	Other	Second Semester
503313 - TRAZIONE ELETTRICA	3	14*			ING-IND/31	Other	Second Semester
503327 - MASTER THESIS	24				PROFIN_S	Final Exam	
TOT. 63 CFU							

\*Choose 6 CFU for choice n°13: Choose 3 CFU for choice n°14

Date .....

Signature .....

Variations on the study plan will not be approved unless they are justified by important reasons. If you wish to make different choices from the one provided, the study plan is individual. (WRITE THE NEW NAME OF EXAM IN THE COLORED BOX AND DRAW A LINE ON THE EXAM YOU WISH TO CHANGE. WRITE THE NUMBER OF CHOICE THE EXAM REFERS TO IN THE COLORED BOX)

It is required to add a revenue stamp of 16€ to the form and the study plan will be submitted to the qualified Teaching Council

Approved by the Teaching Council of .....

THIS STUDY PLAN IS WRITTEN IN COMPLIANCE TO THE STUDY COURSE REGULATIONS AND TO THE STUDENT ENROLLMENT CLASS ("SCHEDE RAD")

HEAD OF THE TEACHING COUNCIL SIGNATURE .....