

University of Pavia

Study Course: ELECTRICAL ENGINEERING - 06419

Classe LM-28 Ingegneria elettrica

Regulations 2021/2022 - Course Regulations a.y. 2022/2023

Study Plan academic year 2022/2023

To be submitted online from october to november 2022 (enrolled student only)

STUDENT NUMBER N. SURNAME- NAME

1° Year - academic year 2022/2023

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
509665 - APPLIED ELECTROMAGNETISM*	12	1		X			All Year
Teaching Unit APPLIED ELECTROMAGNETISM							
509666 - NUMERICAL METHODS IN ELECTROMAGNETISM *	6				ING-IND/31	Distinctive	First Semester
509667 - OPTIMAL DESIGN IN ELECTROMAGNETISM AND ELECTROMAGNETIC ENVIRONMENTAL COMPATIBILITY *	6				ING-IND/31	Distinctive	Second Semester
509668 - ELECTRICAL SYSTEMS*	12	2		X			First Semester
Teaching Unit ELECTRICAL SYSTEMS							
509669 - ADVANCED ELECTRICAL MACHINES *	6				ING-IND/32	Distinctive	First Semester
509670 - ELECTRIC POWER SYSTEMS*	6				ING-IND/33	Distinctive	First Semester
509671 - INDUSTRIAL MEASUREMENTS AND COMMUNICATION SYSTEMS*	9	3		X			First Semester
Teaching Unit INDUSTRIAL MEASUREMENTS AND COMMUNICATION SYSTEMS							
509672 - INDUSTRIAL COMMUNICATION SYSTEMS*	3				ING-IND/32	Related/Supplementary	First Semester
509673 - INDUSTRIAL ELECTRICAL MEASUREMENTS*	6				ING-INF/07	Distinctive	First Semester
509674 - POWER ELECTRONICS*	6	4		X	ING-IND/32	Distinctive	Second Semester
509675 - DESIGN AND TECHNOLOGY OF ELECTRICAL MACHINES*	6	5		X	ING-IND/32	Distinctive	Second Semester
509676 - ENERGY MANAGEMENT*	9	6		X			Second Semester
Teaching Unit ENERGY MANAGEMENT							
508286 - PLANNING OF ENERGY CONVERSION SYSTEMS*	6				ING-IND/32	Distinctive	Second Semester
509677 - MICROGRIDS*	3				ING-IND/32	Related/Supplementary	Second Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	7				Optional	
509079 - ENERGY MARKETS AND SUPPLY STRUCTURE*	6	7			ING-IND/32	Optional	First Semester
504115 - IMPIANTI DI ENERGIA SOLARE E DI ENERGIA DA BIOMASSE	6	7			ING-IND/32	Optional	First Semester
501062 - TERMOFISICA DELL'EDIFICIO	6	7			ING-IND/11	Optional	First Semester
504462 - PROCESS CONTROL	6	7			ING-INF/04	Optional	First Semester
504463 - ROBOT CONTROL	6	7			ING-INF/04	Optional	Second Semester
504719 - ROBOTICS	6	7			ING-INF/05	Optional	First Semester
504717 - INDUSTRIAL CONTROL	6	7			ING-INF/04	Optional	Second Semester
507218 - ELECTRONICS FOR INDUSTRIAL MEASUREMENTS	6	7			ING-INF/01	Optional	First Semester
502993 - MICROSENSORI, MICROSISTEMI INTEGRATI E MEMS*	6	7			ING-INF/07	Optional	First Semester
502156 - ACCUMULO E CONVERSIONE DI ENERGIA	6	7			CHIM/07	Optional	First Semester
509712 - SCENARI ENERGETICI	6	7			GEO/02	Optional	First Semester
503297 - IMPIANTI EOLICI*	3	7			ING-IND/03	Optional	Second Semester
504126 - IMPIANTI IDROELETTRICI*	3	7			ICAR/01	Optional	First Semester
508741 - INTRODUZIONE ALLA NORMAZIONE TECNICA*	3	7			ING-IND/33	Optional	Second Semester
503313 - TRAZIONE ELETTRICA*	3	7			ING-IND/31	Optional	Second Semester
509609 - MANAGEMENT OF PHOTOVOLTAIC SYSTEMS*	3	7			ING-INF/01	Optional	Second Semester
509631 - DIAGNOSTICS FOR ELECTRICAL MACHINES*	3	7			ING-IND/32	Optional	First Semester
510151 - SUSTAINABILITY MANAGEMENT	3	7			ING-IND/32	Optional	Second Semester
503356 - COMPLEMENTI DI ELETTRONICA*	3	7			ING-INF/01	Optional	Second Semester

509666 - NUMERICAL METHODS IN ELECTROMAGNETISM	6				ING-IND/31	Optional	
509667 - OPTIMAL DESIGN IN ELECTROMAGNETISM AND ELECTROMAGNETIC ENVIRONMENTAL COMPATIBILITY	6				ING-IND/31	Optional	
509669 - ADVANCED ELECTRICAL MACHINES	6				ING-IND/32	Optional	
509670 - ELECTRIC POWER SYSTEMS	6				ING-IND/33	Optional	
509673 - INDUSTRIAL ELECTRICAL MEASUREMENTS	6				ING-INF/07	Optional	
509672 - INDUSTRIAL COMMUNICATION SYSTEMS	3				ING-IND/32	Optional	
508286 - PLANNING OF ENERGY CONVERSION SYSTEMS	6				ING-IND/32	Optional	
509677 - MICROGRIDS	3				ING-IND/32	Optional	
TOT. 60 CFU							

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* Learning activities included in the lecture schedule

2° Year - academic year 2023/2024							
Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
509678 - INDUSTRIAL DRIVES*	12	8		X			All Year
Teaching Unit INDUSTRIAL DRIVES							
504723 - ELECTRICAL DRIVES FOR INDUSTRIAL APPLICATIONS*	9				ING-IND/32	Distinctive	First Semester
508303 - ENERGY EFFICIENCY IN COMPRESSED AIR SYSTEMS*	3				ING-IND/32	Related/Supplementary	Second Semester
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES*	6	9			MAT/08	Related/Supplementary	First Semester
502886 - SISTEMI DINAMICI: TEORIA E METODI NUMERICI	6	9			MAT/08	Related/Supplementary	First Semester
504464 - ORGANIZATION THEORY AND DESIGN*	6	10			SECS-P/06	Related/Supplementary	Second Semester
509679 - PLANNING AND OPERATION OF POWER SYSTEMS*	6	10			ING-IND/33	Related/Supplementary	Second Semester
509680 - ELECTRIC VEHICLES*	6	10			ING-IND/32	Related/Supplementary	Second Semester
509681 - SYSTEMS AND TECHNOLOGIES FOR THE SMART GRID*	6	10			ING-IND/32	Related/Supplementary	First Semester
509079 - ENERGY MARKETS AND SUPPLY STRUCTURE*	6	10			ING-IND/32	Related/Supplementary	First Semester
504115 - IMPIANTI DI ENERGIA SOLARE E DI ENERGIA DA BIOMASSE*	6	10			ING-IND/32	Related/Supplementary	First Semester
501062 - TERMOFISICA DELL'EDIFICIO*	6	10			ING-IND/11	Related/Supplementary	First Semester
509679 - PLANNING AND OPERATION OF POWER SYSTEMS*	6	11			ING-IND/33	Related/Supplementary	Second Semester
509680 - ELECTRIC VEHICLES*	6	11			ING-IND/32	Related/Supplementary	Second Semester
509681 - SYSTEMS AND TECHNOLOGIES FOR THE SMART GRID*	6	11			ING-IND/32	Related/Supplementary	First Semester
509079 - ENERGY MARKETS AND SUPPLY STRUCTURE*	6	11			ING-IND/32	Related/Supplementary	First Semester
504464 - ORGANIZATION THEORY AND DESIGN*	6	11			SECS-P/06	Related/Supplementary	Second Semester
504115 - IMPIANTI DI ENERGIA SOLARE E DI ENERGIA DA BIOMASSE*	6	11			ING-IND/32	Related/Supplementary	First Semester
501062 - TERMOFISICA DELL'EDIFICIO*	6	11			ING-IND/11	Related/Supplementary	First Semester
504462 - PROCESS CONTROL*	6	11			ING-INF/04	Related/Supplementary	First Semester
504463 - ROBOT CONTROL	6	11			ING-INF/04	Related/Supplementary	Second Semester
504719 - ROBOTICS	6	11			ING-INF/05	Related/Supplementary	First Semester
504717 - INDUSTRIAL CONTROL*	6	11			ING-INF/04	Related/Supplementary	Second Semester
507218 - ELECTRONICS FOR INDUSTRIAL MEASUREMENTS	6	11			ING-INF/01	Related/Supplementary	First Semester
510150 - MICROSENSORS, INTEGRATED MICROSYSTEMS AND MEMS*	6	11			ING-INF/07	Related/Supplementary	First Semester
502156 - ACCUMULO E CONVERSIONE DI ENERGIA	6	11			CHIM/07	Related/Supplementary	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	12				Optional	
509679 - PLANNING AND OPERATION OF POWER SYSTEMS*	6	12			ING-IND/33	Optional	Second Semester
509680 - ELECTRIC VEHICLES*	6	12			ING-IND/32	Optional	Second Semester
509681 - SYSTEMS AND TECHNOLOGIES FOR THE SMART GRID*	6	12			ING-IND/32	Optional	First Semester
509079 - ENERGY MARKETS AND SUPPLY STRUCTURE	6	12			ING-IND/32	Optional	First Semester
510188 - ECONOMICS OF DIGITAL MARKETS	6	12			SECS-P/06	Optional	Second Semester

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504464 - ORGANIZATION THEORY AND DESIGN*	6	12			SECS-P/06	Optional	Second Semester
504115 - IMPIANTI DI ENERGIA SOLARE E DI ENERGIA DA BIOMASSE*	6	12			ING-IND/32	Optional	First Semester
509682 - HISTORY OF TECHNOLOGY	6	12			ING-IND/31	Optional	First Semester
501062 - TERMOFISICA DELL'EDIFICIO*	6	12			ING-IND/11	Optional	First Semester
504462 - PROCESS CONTROL*	6	12			ING-INF/04	Optional	First Semester
504463 - ROBOT CONTROL	6	12			ING-INF/04	Optional	Second Semester
504719 - ROBOTICS	6	12			ING-INF/05	Optional	First Semester
504717 - INDUSTRIAL CONTROL*	6	12			ING-INF/04	Optional	Second Semester
507218 - ELECTRONICS FOR INDUSTRIAL MEASUREMENTS	6	12			ING-INF/01	Optional	First Semester
510150 - MICROSENSORS, INTEGRATED MICROSYSTEMS AND MEMS*	6	12			ING-INF/07	Optional	First Semester
502156 - ACCUMULO E CONVERSIONE DI ENERGIA	6	12			CHIM/07	Optional	First Semester
509712 - SCENARI ENERGETICI	6	12			GEO/02	Optional	First Semester
508100 - AUTOMATED MECHANICAL SYSTEM DESIGN*	6	12			ING-IND/13	Optional	Second Semester
509683 - SAFETY IN ENGINEERING AND TECHNOLOGY*	3	12			ING-IND/31	Optional	Second Semester
503297 - IMPIANTI EOLICI*	3	12			ING-IND/03	Optional	Second Semester
504126 - IMPIANTI IDROELETTRICI*	3	12			ICAR/01	Optional	First Semester
510267 - AN INTRODUCTION TO STANDARDS: PRINCIPLES AND PRACTICE*	3	12			ING-IND/33	Optional	Second Semester
503313 - TRAZIONE ELETTRICA*	3	12			ING-IND/31	Optional	Second Semester
509609 - MANAGEMENT OF PHOTOVOLTAIC SYSTEMS*	3	12			ING-INF/01	Optional	Second Semester
509631 - DIAGNOSTICS FOR ELECTRICAL MACHINES*	3	12			ING-IND/32	Optional	First Semester
503356 - COMPLEMENTI DI ELETTRONICA*	3	12			ING-INF/01	Optional	Second Semester
510151 - SUSTAINABILITY MANAGEMENT*	3	12			ING-IND/32	Optional	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES*	3	13**			ING-IND/35	Other	Second Semester
500376 - PROGRESSO UMANO E SVILUPPO SOSTENIBILE	3	13**			SECS-P/02	Other	Second Semester
509683 - SAFETY IN ENGINEERING AND TECHNOLOGY*	3	13**			ING-IND/31	Other	Second Semester
503297 - IMPIANTI EOLICI*	3	13**			ING-IND/03	Other	Second Semester
504126 - IMPIANTI IDROELETTRICI*	3	13**			ICAR/01	Other	First Semester
510267 - AN INTRODUCTION TO STANDARDS: PRINCIPLES AND PRACTICE*	3	13**			ING-IND/33	Other	Second Semester
503313 - TRAZIONE ELETTRICA*	3	13**			ING-IND/31	Other	Second Semester
509609 - MANAGEMENT OF PHOTOVOLTAIC SYSTEMS*	3	13**			ING-INF/01	Other	Second Semester
509631 - DIAGNOSTICS FOR ELECTRICAL MACHINES*	3	13**			ING-IND/32	Other	First Semester
503356 - COMPLEMENTI DI ELETTRONICA*	3	13**			ING-INF/01	Other	Second Semester
510151 - SUSTAINABILITY MANAGEMENT*	3	13**			ING-IND/32	Other	Second Semester
509536 - ITALIAN LANGUAGE FOR FOREIGN STUDENTS	3	13			NN	Other	First Semester
503327 - MASTER THESIS	18				PROFIN_S	Final Exam	
508303 - ENERGY EFFICIENCY IN COMPRESSED AIR SYSTEMS*	3				ING-IND/32	Optional	
504723 - ELECTRICAL DRIVES FOR INDUSTRIAL APPLICATIONS*	9				ING-IND/32	Optional	
TOT. 60 CFU							

* Learning activities included in the lecture schedule

** Choose 6 CFU for choice n° 13

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RICONOSCIMENTI- [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 becomes 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.