

## University of Pavia

## Study Course: ELECTRONIC ENGINEERING - 06416

Classe LM-29 Ingegneria elettronica

Regulations 2013/2014 - Course Regulations a.y. 2020/2021

## Study Plan academic year 2021/2022

To be submitted online from October 7th to November 2nd 2021 (enrolled student only)

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

## TRACK 01 - MICROELECTRONICS

## 1° Year - academic year 2020/2021

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504434 - ADVANCED MATHEMATICAL METHODS FOR ENGINEERS	9	1		X	MAT/05	Related/Supplementary	First Semester
504439 - RF MICROELECTRONICS	9	2		X	ING-INF/01	Distinctive	Second Semester
505002 - ELECTRONIC INSTRUMENTATION AND TECHNOLOGIES	9	3		X	ING-INF/01	Distinctive	First Semester
507294 - INTRODUCTION TO QUANTUM MECHANICS	3	4		X	FIS/03	Related/Supplementary	First Semester
504437 - MICROWAVES	9	5		X	ING-INF/02	Distinctive	Second Semester
504990 - INTEGRATED CIRCUIT DEVICES	9	6		X	ING-INF/01	Distinctive	Second Semester
504440 - DIGITAL IC DESIGN	6	7		X	ING-INF/01	Distinctive	Second Semester
504435 - ANALOG INTEGRATED CIRCUITS	9	8		X	ING-INF/01	Distinctive	First Semester
<b>TOT. 63 CFU</b>							

## 2° Year - academic year 2021/2022

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
509352 - INTEGRATED POWER MANAGEMENT	6	9			ING-INF/01	Distinctive	First Semester
504444 - ANTENNAS	6	9			ING-INF/02	Distinctive	First Semester
505021 - ELECTRO-OPTICAL INSTRUMENTATION	6	9			ING-INF/01	Distinctive	First Semester
505003 - VLSI ANALOG-DIGITAL INTERFACE ICS	6	10		X	ING-INF/01	Related/Supplementary	First Semester
502993 - MICROSENSORI, MICROSISTEMI INTEGRATI E MEMS	6	11			ING-INF/01	Related/Supplementary	First Semester
503116 - DIGITAL SIGNAL PROCESSING	6	11			ING-INF/03	Related/Supplementary	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12	12*				Optional	
509352 - INTEGRATED POWER MANAGEMENT	6	12*			ING-INF/01	Optional	First Semester
504998 - DIGITAL COMMUNICATIONS	6	12*			ING-INF/03	Optional	Second Semester
505021 - ELECTRO-OPTICAL INSTRUMENTATION	6	12*			ING-INF/01	Optional	First Semester
504717 - INDUSTRIAL CONTROL	6	12*			ING-INF/04	Optional	Second Semester

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507288 - INTERNET AND MULTIMEDIA	6	12*			ING-INF/03	Optional	First Semester
502993 - MICROSENSORI, MICROSISTEMI INTEGRATI E MEMS	6	12*			ING-INF/01	Optional	First Semester
505006 - MICROWAVE MEASUREMENTS	6	12*			ING-INF/02	Optional	First Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	12*			SECS-P/06	Optional	Second Semester
504462 - PROCESS CONTROL	6	12*			ING-INF/04	Optional	First Semester
504993 - QUANTUM ELECTRONICS	6	12*			FIS/03	Optional	First Semester
505000 - RADAR REMOTE SENSING	6	12*			ING-INF/02	Optional	Second Semester
504463 - ROBOT CONTROL	6	12*			ING-INF/04	Optional	Second Semester
505017 - SATELLITE AND SPACE SYSTEMS	6	12*			ING-INF/02	Optional	First Semester
505012 - LASER SAFETY	6	12*			FIS/03	Optional	First Semester
503188 - STRUMENTAZIONE BIOMEDICA LM	6	12*			ING-INF/06	Optional	First Semester
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	12*			SECS-P/06	Optional	Second Semester
508744 - BIOELETTROMAGNETISMO APPLICATO	6	12 *			ING-INF/02	Optional	Secondo Semestre
509037 - HARDWARE SOFTWARE CODESIGN	6	12 *			ING-INF/05	Optional	Second Semester
508087 - ATTIVITA' FORMATIVA IN AZIENDA	12	12**			NN	Optional	
505013 - ADVANCED TOPICS IN MICROWAVE TECHNOLOGIES	3	13*			ING-INF/02	Other	All Year
501246 - ETICA AMBIENTALE	3	13*			SECS-P/13	Other	Second Semester
509350 - ETICA PER LA PROGETTAZIONE	3	13*			SECS-P/13	Other	Second Semester
509379 - INDUSTRIAL TOPICS IN MICROELECTRONICS AND PHOTONICS	3	13*			ING-INF/01	Other	All Year
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	13*			ING-IND/35	Other	Second Semester
504725 - OTHER ACTIVITIES	3	13**			NN	Other	
503327 - MASTER THESIS	24			X	PROFIN_S	Final Exam	
<b>TOT. 57 CFU</b>							

\*Choose a total of 12 CFU for choice n°12; choose 3 CFU for choice n°13; \*\*only LMPlus Students may choose these activities

**TRACK 02 - PHOTONICS**

**1° Year - academic year 2020/2021**

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504434 - ADVANCED MATHEMATICAL METHODS FOR ENGINEERS	9	1		X	MAT/05	Related/Supplementary	First Semester
504992 - OPTOELECTRONIC DEVICES	9	2		X	ING-INF/01	Distinctive	First Semester
508745 - INTRODUCTION TO QUANTUM MECHANICS AND QUANTUM TECHNOLOGIES	6	3		X	FIS/03	Related/Supplementary	First Semester
504993 - QUANTUM ELECTRONICS	6	4		X	FIS/03	Related/Supplementary	First Semester
504437 - MICROWAVES	9	5		X	ING-INF/02	Distinctive	Second Semester
504994 - OPTICAL COMMUNICATIONS	9	6		X	ING-INF/01	Distinctive	Second Semester
504996 - NONLINEAR OPTICS	6	7		X	FIS/03	Related/Supplementary	Second Semester

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504998 - DIGITAL COMMUNICATIONS	6	8		X	ING-INF/03	Related/Supplementary	Second Semester
<b>TOT. 60 CFU</b>							

**2° Year - academic year 2021/2022**

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
505021 - ELECTRO-OPTICAL INSTRUMENTATION	6	9		X	ING-INF/01	Distinctive	First Semester
505015 - INDUSTRIAL LASER DESIGN	6	10		X	ING-INF/01	Distinctive	First Semester
504999 - ANTENNAS AND PROPAGATION	9	11		X	ING-INF/02	Distinctive	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12	12*				Optional	
504717 - INDUSTRIAL CONTROL	6	12*			ING-INF/04	Optional	Second Semester
507288 - INTERNET AND MULTIMEDIA	6	12*			ING-INF/03	Optional	First Semester
502993 - MICROSENSORI, MICROSISTEMI INTEGRATI E MEMS	6	12*			ING-INF/01	Optional	First Semester
505006 - MICROWAVE MEASUREMENTS	6	12*			ING-INF/02	Optional	First Semester
502987 - OPTOELETTRONICA BIOMEDICA	6	12*			ING-INF/01	Optional	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	12*			SECS-P/06	Optional	Second Semester
504462 - PROCESS CONTROL	6	12*			ING-INF/04	Optional	First Semester
505000 - RADAR REMOTE SENSING	6	12*			ING-INF/02	Optional	Second Semester
504463 - ROBOT CONTROL	6	12*			ING-INF/04	Optional	Second Semester
505017 - SATELLITE AND SPACE SYSTEMS	6	12*			ING-INF/02	Optional	First Semester
505012 - LASER SAFETY	6	12*			FIS/03	Optional	First Semester
503188 - STRUMENTAZIONE BIOMEDICA LM	6	12*			ING-INF/06	Optional	First Semester
505003 - VLSI ANALOG-DIGITAL INTERFACE ICS	6	12*			ING-INF/01	Optional	First Semester
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	12*			SECS-P/06	Optional	Second Semester
508744 - BIOELETTRONICA APPLICATO	6	12*			ING-INF/02	Optional	Secondo Semestre
508087 - ATTIVITA' FORMATIVA IN AZIENDA	12	12**			NN	Optional	
505013 - ADVANCED TOPICS IN MICROWAVE TECHNOLOGIES	3	13*			ING-INF/02	Other	All Year
509379 - INDUSTRIAL TOPICS IN MICROELECTRONICS AND PHOTONICS	3	13*			ING-INF/01	Other	All Year
501246 - ETICA AMBIENTALE	3	13*			SECS-P/13	Other	Second Semester
509350 - ETICA PER LA PROGETTAZIONE	3	13*			SECS-P/13	Other	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	13*			ING-IND/35	Other	Second Semester
504725 - OTHER ACTIVITIES	3	13**			NN	Other	
503327 - MASTER THESIS	24			X	PROFIN_S	Final Exam	
<b>TOT. 60 CFU</b>							

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## TRACK 03 - SPACE COMMUNICATION AND SENSING

## 1° Year - academic year 2020/2021

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504434 - ADVANCED MATHEMATICAL METHODS FOR ENGINEERS	9	1		X	MAT/05	Related/Supplementary	First Semester
505018 - SATELLITE DATA ANALYSIS	9	2		X	ING-INF/03	Related/Supplementary	First Semester
504993 - QUANTUM ELECTRONICS	6	3			FIS/03	Related/Supplementary	First Semester
508745 - INTRODUCTION TO QUANTUM MECHANICS AND QUANTUM TECHNOLOGIES	6	3			FIS/03	Related/Supplementary	First Semester
504999 - ANTENNAS AND PROPAGATION	9	4		X	ING-INF/02	Distinctive	First Semester
504437 - MICROWAVES	9	5		X	ING-INF/02	Distinctive	Second Semester
504994 - OPTICAL COMMUNICATIONS	9	6			ING-INF/01	Distinctive	Second Semester
504439 - RF MICROELECTRONICS	9	6			ING-INF/01	Distinctive	Second Semester
505000 - RADAR REMOTE SENSING	6	7		X	ING-INF/02	Distinctive	Second Semester
504998 - DIGITAL COMMUNICATIONS	6	8		X	ING-INF/03	Related/Supplementary	Second Semester
<b>TOT. 63 CFU</b>							

## 2° Year - academic year 2021/2022

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
505021 - ELECTRO-OPTICAL INSTRUMENTATION	6	9			ING-INF/01	Distinctive	First Semester
505017 - SATELLITE AND SPACE SYSTEMS	6	9			ING-INF/02	Distinctive	First Semester
505006 - MICROWAVE MEASUREMENTS	6	10		X	ING-INF/02	Distinctive	First Semester
503116 - DIGITAL SIGNAL PROCESSING	6	11		X	ING-INF/03	Related/Supplementary	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12	12*				Optional	
505021 - ELECTRO-OPTICAL INSTRUMENTATION	6	12*			ING-INF/01	Optional	First Semester
504717 - INDUSTRIAL CONTROL	6	12*			ING-INF/04	Optional	Second Semester
507288 - INTERNET AND MULTIMEDIA	6	12*			ING-INF/03	Optional	First Semester
502993 - MICROSENSORI, MICROSISTEMI INTEGRATI E MEMS	6	12*			ING-INF/01	Optional	First Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	12*			SECS-P/06	Optional	Second Semester
504462 - PROCESS CONTROL	6	12*			ING-INF/04	Optional	First Semester
504993 - QUANTUM ELECTRONICS	6	12*			FIS/03	Optional	First Semester
505000 - RADAR REMOTE SENSING	6	12*			ING-INF/02	Optional	Second Semester
504463 - ROBOT CONTROL	6	12*			ING-INF/04	Optional	Second Semester
505017 - SATELLITE AND SPACE SYSTEMS	6	12*			ING-INF/02	Optional	First Semester
508745 - INTRODUCTION TO QUANTUM MECHANICS AND QUANTUM TECHNOLOGIES	6	12*			FIS/03	Optional	
505012 - LASER SAFETY	6	12*			FIS/03	Optional	First Semester

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503188 - STRUMENTAZIONE BIOMEDICA LM	6	12*			ING-INF/06	Optional	First Semester
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	12*			SECS-P/06	Optional	Second Semester
508744 - BIOELETTROMAGNETISMO APPLICATO	6	12 *			ING-INF/02	Optional	Secondo Semestre
508087 - ATTIVITA' FORMATIVA IN AZIENDA	12	12**			NN	Optional	
505013 - ADVANCED TOPICS IN MICROWAVE TECHNOLOGIES	3	13*			ING-INF/02	Other	All Year
509379 - INDUSTRIAL TOPICS IN MICROELECTRONICS AND PHOTONICS	3	13*			ING-INF/01	Other	All Year
501246 - ETICA AMBIENTALE	3	13*			SECS-P/13	Other	Second Semester
509350 - ETICA PER LA PROGETTAZIONE	3	13*			SECS-P/13	Other	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	13*			ING-IND/35	Other	Second Semester
504725 - OTHER ACTIVITIES	3	13**			NN	Other	
503327 - MASTER THESIS	24			X	PROFIN_S	Final Exam	
<b>TOT. 57 CFU</b>							

\*Choose a total of 12 CFU for choice n°12; choose 3 CFU for choice n°13; \*\*only LMPlus Students may choose these activities

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.**