

# University of Pavia

## Study Course: ELECTRONIC ENGINEERING - 06416

### Classe LM-29 Ingegneria elettronica

### Regulations 2013/2014 - 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 .....
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### Track 01 - MICROELECTRONICS

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

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	First 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	Second Semester
<b>TOT. 63 CFU</b>							

#### 2° Year - academic year 2019/2020

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
507307 - CIRCUITS AND SYSTEMS FOR HIGH-SPEED COMMUNICATIONS	6	9			ING-INF/01	Distinctive	First Semester
504444 - ANTENNAS	6	9			ING-INF/02	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	6	12*				Optional	
504240 - BIOFOTONICA A	3	12*			ING-INF/01	Optional	Second Semester
504241 - BIOFOTONICA B	3	12*			FIS/03	Optional	Second Semester
507307 - CIRCUITS AND SYSTEMS FOR HIGH-SPEED COMMUNICATIONS	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
502466 - ELETTRONICA DI POTENZA	6	12*			ING-IND/32	Optional	Second 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
505006 - MICROWAVE MEASUREMENTS	6	12*			ING-INF/02	Optional	First Semester
504994 - OPTICAL COMMUNICATIONS	9	12*			ING-INF/01	Optional	Second Semester
504992 - OPTOELECTRONIC DEVICES	9	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/01	Optional	First Semester
504232 - SICUREZZA LASER	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 - BIOELETTRROMAGNETISMO 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
505060 - INDUSTRIAL TOPICS IN MICROELECTRONICS	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 2018/2019

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

**2° Year - academic year 2019/2020**

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
SCelta LIBERA IN OFFERTA DIDATTICA DI ATENEO	6	12*				Optional	
504240 - BIOFOTONICA A	3	12*			ING-INF/01	Optional	Second Semester
504241 - BIOFOTONICA B	3	12*			FIS/03	Optional	Second Semester
507307 - CIRCUITS AND SYSTEMS FOR HIGH-SPEED COMMUNICATIONS	6	12*			ING-INF/01	Optional	First Semester
505002 - ELECTRONIC INSTRUMENTATION AND TECHNOLOGIES	9	12*			ING-INF/01	Optional	First Semester
502466 - ELETTRONICA DI POTENZA	6	12*			ING-IND/32	Optional	Second 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
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/01	Optional	First Semester
504232 - SICUREZZA LASER	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 - 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
505060 - INDUSTRIAL TOPICS IN MICROELECTRONICS	3	13*			ING-INF/01	Other	All Year
501246 - ETICA AMBIENTALE	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>							

\*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 03 - SPACE COMMUNICATION AND SENSING

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

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	First 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 2019/2020

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
507307 - CIRCUITS AND SYSTEMS FOR HIGH-SPEED COMMUNICATIONS	6	9			ING-INF/01	Distinctive	First Semester
505021 - ELECTRO-OPTICAL INSTRUMENTATION	6	9			ING-INF/01	Distinctive	First Semester
505017 - SATELLITE AND SPACE SYSTEMS	6	9			ING-INF/01	Distinctive	First Semester
505150 - COMPUTATIONAL ELECTROMAGNETICS	6	10			ING-INF/02	Distinctive	First Semester
505006 - MICROWAVE MEASUREMENTS	6	10			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	6	12*				Optional	
504240 - BIOFOTONICA A	3	12*			ING-INF/01	Optional	Second Semester
504241 - BIOFOTONICA B	3	12*			FIS/03	Optional	Second Semester
507307 - CIRCUITS AND SYSTEMS FOR HIGH-SPEED COMMUNICATIONS	6	12*			ING-INF/01	Optional	First Semester
505002 - ELECTRONIC INSTRUMENTATION AND TECHNOLOGIES	9	12*			ING-INF/01	Optional	First Semester
505021 - ELECTRO-OPTICAL INSTRUMENTATION	6	12*			ING-INF/01	Optional	First Semester
502466 - ELETTRONICA DI POTENZA	6	12*			ING-IND/32	Optional	Second 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

505006 - MICROWAVE MEASUREMENTS	6	12*			ING-INF/02	Optional	First Semester
504994 - OPTICAL COMMUNICATIONS	9	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
504993 - QUANTUM ELECTRONICS	6	12*			FIS/03	Optional	First Semester
505000 - RADAR REMOTE SENSING	6	12*			ING-INF/02	Optional	Second Semester
504439 - RF MICROELECTRONICS	9	12*			ING-INF/01	Optional	Second Semester
504463 - ROBOT CONTROL	6	12*			ING-INF/04	Optional	Second Semester
505017 - SATELLITE AND SPACE SYSTEMS	6	12*			ING-INF/01	Optional	First Semester
508745 - INTRODUCTION TO QUANTUM MECHANICS AND QUANTUM TECHNOLOGIES	6	12*			FIS/03	Optional	First Semester
504232 - SICUREZZA LASER	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
508087 - ATTIVITA' FORMATIVA IN AZIENDA	12	12**			NN	Optional	
505013 - ADVANCED TOPICS IN MICROWAVE TECHNOLOGIES	3	13*			ING-INF/02	Other	All Year
505060 - INDUSTRIAL TOPICS IN MICROELECTRONICS	3	13*			ING-INF/01	Other	All Year
501246 - ETICA AMBIENTALE	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 .....

**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 .....**