

**Universita degli Studi di Pavia**  
**Corso di Studio: ELECTRONIC ENGINEERING - 06416**  
**Classe LM-29 Ingegneria elettronica**  
**Ordinamento 2013/2014 - Regolamento Year 2014/2015**

**Piano di Studi academic year 2015/2016**

to submit online between November 11 and December 1, 2015 when enrollment is effective

<b>MATRICOLA - Student Nr. A A A A A</b>	<b>SURNAME NAME A ...</b>
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**CURRICULUM 01 - MICROELECTRONICS**

**1st Year - Academic year 2014/2015**

Learning Activity	credits	N°	compul sory	Sector	Type of learning activity	Period
504434 - ADVANCED MATHEMATICAL METHODS FOR ENGINEERS	9	1	X	MAT/05	Related/ Supplementary	First Semester
504435 - ANALOG INTEGRATED CIRCUITS	9	2	X	ING-INF/01	Distinctive	First Semester
504436 - SEMICONDUCTOR DEVICE PHYSICS	6	3	X	FIS/03	Related/ Supplementary	First Semester
503116 - DIGITAL SIGNAL PROCESSING	9	4	X	ING-INF/03	Related/ Supplementary	First Semester
504437 - MICROWAVES	9	5	X	ING-INF/02	Distinctive	Second Semester
504990 - INTEGRATED CIRCUIT DEVICES	6	6	X	ING-INF/01	Distinctive	Second Semester
504439 - RF MICROELECTRONICS	9	7	X	ING-INF/01	Distinctive	Second Semester
504440 - DIGITAL IC DESIGN	6	8	X	ING-INF/01	Distinctive	Second Semester
<b>TOT. 63 credits</b>						

**2nd Year - Academic year 2015/2016**

Learning Activity	credits	N°	compul sory	Sector	Type of learning activity	Period
505002 - ELECTRONIC INSTRUMENTATION AND TECHNOLOGIES	6	9	X	ING-INF/01	Distinctive	First Semester
504443 - CIRCUITS AND SYSTEMS FOR WIRELINE COMMUNICATIONS	6	10 *		ING-INF/01	Distinctive	First Semester
505003 - VLSI ANALOG-DIGITAL INTERFACE ICs	6	10 *		ING-INF/01	Distinctive	First Semester
504444 - ANTENNAS	6	11	X	ING-INF/02	Distinctive	First Semester
FREE CHOICE OFFERED BY THE UNIVERSITY	12	12 *			Optional	
507288 - INTERNET E 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

505150 - COMPUTATIONAL ELECTROMAGNETICS	6	12 *		ING-INF/02	Optional	First Semester
505007 - ELECTROMAGNETIC COMPATIBILITY	6	12 *		ING-INF/02	Optional	First Semester
505017 - SATELLITE AND SPACE SYSTEMS	6	12 *		ING-INF/01	Optional	First Semester
505021 - ELECTRO-OPTICAL INSTRUMENTATION	6	12 *		ING-INF/01	Optional	First Semester
503272 - ARCHITETTURE VLSI PER L'ELABORAZIONE DIGITALE DEI SEGNALI	6	12 *		ING-INF/01	Optional	First Semester
504232 - SICUREZZA LASER	6	12 *		FIS/03	Optional	First Semester
504462 - PROCESS CONTROL	6	12 *		ING-INF/04	Optional	First Semester
504702 - INDUSTRIAL AUTOMATION	6	12 *		ING-INF/04	Optional	First Semester
504993 - QUANTUM ELECTRONICS	6	12 *		FIS/03	Optional	First Semester
504992 - OPTOELECTRONIC DEVICES	9	12 *		ING-INF/01	Optional	Second Semester
504994 - OPTICAL COMMUNICATIONS	9	12 *		ING-INF/01	Optional	Second Semester
505000 - RADAR REMOTE SENSING	6	12 *		ING-INF/02	Optional	Second Semester
505001 - INVERSE SCATTERING TECHNIQUES AND DIAGNOSTIC	6	12 *		ING-INF/02	Optional	Second Semester
504240 - BIOFOTONICA A	3	12 *		ING-INF/01	Optional	Second Semester
504241 - BIOFOTONICA B	3	12 *		FIS/03	Optional	Second Semester
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	12 *		SECS-P/06	Optional	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	12 *		SECS-P/06	Optional	Second Semester
502466 - ELETTRONICA DI POTENZA	6	12 *		ING-INF/01	Optional	Second Semester
504998 - DIGITAL COMMUNICATIONS	6	12 *		ING-INF/03	Optional	Second Semester
507293 - INDUSTRIAL TOPICS IN COOMUNICATION AND SENSING	3	13 *		ING-INF/03	Other	Single Year
505013 - ADVANCED TOPICS IN MICROWAVE TECHNOLOGIES	3	13 *		ING-INF/02	Other	Single Year
505060 - INDUSTRIAL TOPICS IN MICROELECTRONICS	3	13 *		ING-INF/01	Other	Single Year
501246 - ETICA AMBIENTALE	3	13 *		ICAR/03	Other	Second Semester
503281 - PROGETTO, GESTIONE E PRODUZIONE DI BENI E SERVIZI	3	13 *		ING-IND/35	Other	Second Semester
503327 - MASTER THESIS	24			PROFIN_S	Final exam	Second Semester
<b>TOT. 57 credits</b>						

\* Choice of 6 credits in position n. 10 "Distinctive"; Choice of 12 credits in position n. 12 "Optional "; Choice of 3 credits in position n. 13 "Other".

## CURRICULUM 02 - PHOTONICS

### 1st Year - Academic year 2014/2015

Learning Activity	credits	N°	compulsory	Sector	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
504436 - SEMICONDUCTOR DEVICE PHYSICS	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 credits</b>						

### 2st Year - Academic year 2015/2016

Learning Activity	credits	N°	compulsory	Sector	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 OFFERED BY THE UNIVERSITY	12	12 *			Optional	
505002 - ELECTRONIC INSTRUMENTATION AND TECHNOLOGIES	6	12 *		ING-INF/01	Optional	First Semester
504443 - CIRCUITS AND SYSTEMS FOR WIRELINE COMMUNICATIONS	6	12 *		ING-INF/01	Optional	First Semester
507288 - INTERNET E 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
505150 - COMPUTATIONAL ELECTROMAGNETICS	6	12 *		ING-INF/02	Optional	First Semester
505007 - ELECTROMAGNETIC COMPATIBILITY	6	12 *		ING-INF/02	Optional	First Semester
505003 - VLSI ANALOG-DIGITAL INTERFACE ICs	6	12 *		ING-INF/01	Optional	First Semester
503272 - ARCHITETTURE VLSI PER L'ELABORAZIONE DIGITALE DEI SEGNALI	6	12 *		ING-INF/01	Optional	First Semester
504232 - SICUREZZA LASER	6	12 *		FIS/03	Optional	First Semester

504462 - PROCESS CONTROL	6	12 *		ING-INF/04	Optional	First Semester
504702 - INDUSTRIAL AUTOMATION	6	12 *		ING-INF/04	Optional	First Semester
505017 - SATELLITE AND SPACE SYSTEMS	6	12 *		ING-INF/01	Optional	First Semester
505000 - RADAR REMOTE SENSING	6	12 *		ING-INF/02	Optional	Second Semester
505001 - INVERSE SCATTERING TECHNIQUES AND DIAGNOSTIC	6	12 *		ING-INF/02	Optional	Second Semester
504240 - BIOFOTONICA A	3	12 *		ING-INF/01	Optional	Second Semester
504241 - BIOFOTONICA B	3	12 *		FIS/03	Optional	Second Semester
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	12 *		SECS-P/06	Optional	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	12 *		SECS-P/06	Optional	Second Semester
502466 - ELETTRONICA DI POTENZA	6	12 *		ING-INF/01	Optional	Second Semester
507293 - INDUSTRIAL TOPICS IN COOMUNICATION AND SENSING	3	13 *		ING-INF/03	Other	Single Year
505013 - ADVANCED TOPICS IN MICROWAVE TECHNOLOGIES	3	13 *		ING-INF/02	Other	Single Year
505060 - INDUSTRIAL TOPICS IN MICROELECTRONICS	3	13 *		ING-INF/01	Other	Single Year
501246 - ETICA AMBIENTALE	3	13 *		ICAR/03	Other	Second Semester
503281 - PROGETTO, GESTIONE E PRODUZIONE DI BENI E SERVIZI	3	13 *		ING-IND/35	Other	Second Semester
503327 - MASTER THESIS	24			PROFIN_S	Final exam	Second Semester
<b>TOT. 60 credits</b>						

\* Choice of 12 credits in position n. 12 "Optional "; Choice of 3 credits in position n. 13 "Other".

## CURRICULUM 03 - SPACE COMMUNICATION AND SENSING

### 1st Year - Academic year 2014/2015

Learning Activity	credits	N°	compulsory	Sector	Type of learning activity	Period
504434 - ADVANCED MATHEMATICAL METHODS FOR ENGINEERS	9	1	X	MAT/05	Related/Supplementary	First Semester
503116 - DIGITAL SIGNAL PROCESSING	9	2	X	ING-INF/03	Related/Supplementary	First Semester
504993 - QUANTUM ELECTRONICS	6	3 *		FIS/03	Related/Supplementary	First Semester
504436 - SEMICONDUCTOR DEVICE PHYSICS	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
505001 - INVERSE SCATTERING TECHNIQUES AND DIAGNOSTIC	6	7 *		ING-INF/02	Distinctive	Second Semester
505000 - RADAR REMOTE SENSING	6	7 *		ING-INF/02	Distinctive	Second Semester
504998 - DIGITAL COMMUNICATIONS	6	8	X	ING-INF/03	Related/ Supplementary	Second Semester
<b>TOT. 63 credits</b>						

\* Choice of 6 credits in position n. 3 "Related/ Supplementary"; Choice of 9 credits in position n. 6 "Distinctive"; Choice of 6 credits in position n. 7 "Distinctive".

## 2nd Year - Academic year 2015/2016

Learning Activity	credits	N°	compulsory	Sector	Type of learning activity	Period
505021 - ELECTRO-OPTICAL INSTRUMENTATION	6	9 *		ING-INF/01	Distinctive	First Semester
504443 - CIRCUITS AND SYSTEMS FOR WIRELINE COMMUNICATIONS	6	9 *		ING-INF/01	Distinctive	First Semester
505017 - SATELLITE AND SPACE SYSTEMS	6	9 *		ING-INF/01	Distinctive	First Semester
505006 - MICROWAVE MEASUREMENTS	6	10 *		ING-INF/02	Distinctive	First Semester
505150 - COMPUTATIONAL ELECTROMAGNETICS	6	10 *		ING-INF/02	Distinctive	First Semester
505007 - ELECTROMAGNETIC COMPATIBILITY	6	10 *		ING-INF/02	Distinctive	First Semester
505002 - ELECTRONIC INSTRUMENTATION AND TECHNOLOGIES	6	10 *		ING-INF/01	Distinctive	First Semester
505018 - SATELLITE DATA ANALYSIS	6	11 *		ING-INF/03	Related/ Supplementary	First Semester
505019 - WIRELESS NETWORKS	6	11 *		ING-INF/03	Related/ Supplementary	First Semester
FREE CHOICE OFFERED BY THE UNIVERSITY	12	12 *			Optional	
502993 - MICROSENSORI, MICROSISTEMI INTEGRATI E MEMS	6	12 *		ING-INF/01	Optional	First Semester
503272 - ARCHITETTURE VLSI PER L'ELABORAZIONE DIGITALE DEI SEGNALI	6	12 *		ING-INF/01	Optional	First Semester
504232 - SICUREZZA LASER	6	12 *		FIS/03	Optional	First Semester
504462 - PROCESS CONTROL	6	12 *		ING-INF/04	Optional	First Semester
504702 - INDUSTRIAL AUTOMATION	6	12 *		ING-INF/04	Optional	First Semester
507288 - INTERNET E MULTIMEDIA	6	12 *		ING-INF/03	Optional	First Semester
505003 - VLSI ANALOG-DIGITAL INTERFACE ICS	6	12 *		ING-INF/01	Optional	First Semester
504240 - BIOFOTONICA A	3	12 *		ING-INF/01	Optional	Second Semester
504241 - BIOFOTONICA B	3	12 *		FIS/03	Optional	Second Semester
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	12 *		SECS-P/06	Optional	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	12 *		SECS-P/06	Optional	Second Semester

502466 - ELETTRONICA DI POTENZA	6	12 *		ING-INF/01	Optional	Second Semester
504439 - RF MICROELECTRONICS	9	12 *		ING-INF/01	Optional	Second Semester
507293 - INDUSTRIAL TOPICS IN COOMUNICATION AND SENSING	3	13 *		ING-INF/03	Other	Single Year
505013 - ADVANCED TOPICS IN MICROWAVE TECHNOLOGIES	3	13 *		ING-INF/02	Other	Single Year
505060 - INDUSTRIAL TOPICS IN MICROELECTRONICS	3	13 *		ING-INF/01	Other	Single Year
501246 - ETICA AMBIENTALE	3	13 *		ICAR/03	Other	Second Semester
503281 - PROGETTO, GESTIONE E PRODUZIONE DI BENI E SERVIZI	3	13 *		ING-IND/35	Other	Second Semester
503327 - MASTER THESIS	24			PROFIN_S	Final exam	Second Semester
<b>TOT. 57 credits</b>						

**\* Choice of 6 credits in position n. 9 "Distinctive"; Choice of 6 credits in position n. 10 "Distinctive"; Choice of 6 credits in position n. 11 "Related/ Supplementary"; Choice of 12 credits in position n. 12 "Optional "; Choice of 3 credits in position n. 13 "Other".**

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**No changes are normally admitted to the study plan, except in duly justified cases. If you want to differ from the standard study plan, your study plan will become individual (INSERT THE NEW EXAM IN THE COLOURED ROW AND DELETE THE TEACHING YOU WANT TO SUBSTITUTE). You then need a revenue stamp of Ö16 and the plan will have to be approved by the Teaching Committee.**

**APPROVED BY THE TEACHING COMMITTEE ON .....**

**WE DECLARE THAT THIS INDIVIDUAL PLAN IS IN COMPLIANCE WITH THE TEACHING REGULATIONS OF THIS STUDY COURSE IN RELATION TO THE YEAR THE STUDENT BELONGS TO (RAD FORM)**

**SIGNATURE OF THE PRESIDENT OF THE COMMITTEE**

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