

University of Pavia

Study Course: COMPUTER ENGINEERING - 06415

Classe LM-32 Ingegneria informatica

Regulations 2012/2013 - Course Regulations a.y. 2016/2017

Study Plan academic year 2017/2018

To be submitted online from 21st October to 10th November 2017 only if already enrolled

STUDENT NUMBER N.	SURNAME- NAME
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TRACK 07 - EMBEDDED AND CONTROL SYSTEMS

1°Year - academic year 2016/2017

Learning Activity	CFU	N°	N° (ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504714 - PROCESS CONTROL AND ROBOTICS	12	1		X			All Year
Teaching Units of PROCESS CONTROL AND ROBOTICS							
504462 - PROCESS CONTROL	6				ING-INF/04	Distinctive	First Semester
504463 - ROBOT CONTROL	6				ING-INF/04	Distinctive	Second Semester
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	First Semester
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	First Semester
504715 - ADVANCED AUTOMATION AND CONTROL	9	4		X	ING-INF/04	Distinctive	First Semester
504707 - ARTIFICIAL INTELLIGENCE	6	5			ING-INF/05	Distinctive	First Semester
504703 - COMPUTER VISION	6	5			ING-INF/05	Distinctive	First Semester
504724 - DESIGN OF ENTERPRISE SYSTEMS	6	5			ING-INF/05	Distinctive	First Semester
504718 - INFORMATION SECURITY	6	5			ING-INF/05	Distinctive	First Semester
504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	5			ING-INF/05	Distinctive	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	5			ING-INF/05	Distinctive	First Semester
504705 - SOFTWARE ENGINEERING	6	5			ING-INF/05	Distinctive	First Semester
507320 - DIGITAL CONTENT RETRIEVAL	12	5-9					All Year
Teaching Units of DIGITAL CONTENT RETRIEVAL							
507320 - DIGITAL CONTENT RETRIEVAL	6	5			ING-INF/05	Distinctive	First Semester
507320 - DIGITAL CONTENT RETRIEVAL	6	9			ING-INF/05	Optional	Second Semester
507316 - DESIGN OF BUSINESS PROCESSES	6	5			ING-INF/05	Distinctive	First Semester
503234 - DESIGN OF SERVICE SYSTEMS	6	5			ING-INF/05	Distinctive	First Semester
504709 - HUMAN COMPUTER INTERACTION	6	5			ING-INF/05	Distinctive	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	6		X	SECS-P/06	Related/Supplementary	Second Semester
504716 - INDUSTRIAL INFORMATICS AND EMBEDDED SYSTEMS	6	7		X	ING-INF/05	Distinctive	Second Semester
504717 - INDUSTRIAL CONTROL	6	8		X	ING-INF/04	Distinctive	Second Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	9*				Optional	

502956 - APPRENDIMENTO AUTOMATICO IN MEDICINA	6	9*			ING-INF/06	Optional	Second Semester
502466 - ELETTRONICA DI POTENZA	6	9*			ING-INF/01	Optional	Second Semester
502547 - FISICA TECNICA A	6	9*			ING-IND/10	Optional	Second Semester
504709 - HUMAN COMPUTER INTERACTION	6	9*			ING-INF/05	Optional	Second Semester
502504 - MODELLI DI SISTEMI BIOLOGICI	6	9*			ING-INF/06	Optional	Second Semester
TOT. 63 CFU							

Choose 6 CFU for choice n°5; Choose 6 CFU for choice n°9; "DIGITAL CONTENT RETRIEVAL" can be included as 12 CFU for choice n°5 (if so you cannot choose any exam for choice n°9 because you already fulfilled all your optional 12 CFU)

2° Year - academic year 2017/2018

Learning Activity	CFU	N°	N°(ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504719 - ROBOTICS	6	10		X	ING-INF/05	Distinctive	First Semester
504723 - ELECTRICAL DRIVES FOR INDUSTRIAL APPLICATIONS	9	11		X	ING-IND/32	Related/Supplementary	First Semester
504707 - ARTIFICIAL INTELLIGENCE	6	12			ING-INF/05	Distinctive	First Semester
504703 - COMPUTER VISION	6	12			ING-INF/05	Distinctive	First Semester
507316 - DESIGN OF BUSINESS PROCESSES	6	12			ING-INF/05	Distinctive	First Semester
504724 - DESIGN OF ENTERPRISE SYSTEMS	6	12			ING-INF/05	Distinctive	First Semester
503234 - DESIGN OF SERVICE SYSTEMS	6	12			ING-INF/05	Distinctive	First Semester
507320 - DIGITAL CONTENT RETRIEVAL	12	12-13					All Year
Teaching Units of DIGITAL CONTENT RETRIEVAL							
507320 - DIGITAL CONTENT RETRIEVAL	6	12			ING-INF/05	Distinctive	First Semester
507320 - DIGITAL CONTENT RETRIEVAL	6	13			ING-INF/05	Optional	Second Semester
504718 - INFORMATION SECURITY	6	12			ING-INF/05	Distinctive	First Semester
504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	12			ING-INF/05	Distinctive	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	12			ING-INF/05	Distinctive	First Semester
504705 - SOFTWARE ENGINEERING	6	12			ING-INF/05	Distinctive	First Semester
504709 - HUMAN COMPUTER INTERACTION	6	12			ING-INF/05	Distinctive	Second Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	13*				Optional	
507217 - AUTOMATION AND COMMUNICATION IN INDUSTRIAL SYSTEMS	6	13*			ING-IND/32	Optional	First Semester
504703 - COMPUTER VISION	6	13*			ING-INF/05	Optional	First Semester
507316 - DESIGN OF BUSINESS PROCESSES	6	13*			ING-INF/05	Optional	First Semester
503234 - DESIGN OF SERVICE SYSTEMS	6	13*			ING-INF/05	Optional	First Semester
504724 - DESIGN OF ENTERPRISE SYSTEMS	6	13*			ING-INF/05	Optional	First Semester
507218 - ELECTRONICS FOR INDUSTRIAL MEASUREMENTS	6	13*			ING-INF/01	Optional	First Semester
502515 - ELETTRONICA DEI SISTEMI DIGITALI	6	13*			ING-INF/01	Optional	First Semester
500474 - FISICA MATEMATICA	6	13*			MAT/07	Optional	First Semester

504718 - INFORMATION SECURITY	6	13*			ING-INF/05	Optional	First Semester
500548 - MECCANICA APPLICATA ALLE MACCHINE	6	13*			ING-IND/13	Optional	First Semester
502993 - MICROSENSORI, MICROSISTEMI INTEGRATI E MEMS	6	13*			ING-INF/01	Optional	First Semester
504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	13*			ING-INF/05	Optional	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	13*			ING-INF/05	Optional	First Semester
504705 - SOFTWARE ENGINEERING	6	13*			ING-INF/05	Optional	First Semester
507215 - STRATEGIC MANAGEMENT AND BUSINESS PLANNING	6	13*			SECS-P/08	Optional	First Semester
507216- LEAN PRODUCTION	6	13*			ING-IND/17	Optional	First Semester
507219 - LOGISTICS MANAGEMENT	6	13*			ING-IND/17	Optional	First Semester
501246 - ETICA AMBIENTALE	3	14			ICAR/03	Other	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14			ING-IND/35	Other	Second Semester
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14			ING-INF/06	Other	Second Semester
504722 - PROJECT WORK IN COMPUTER ENGINEERING	6	14			NN	Other	
503327 - MASTER THESIS	24	15			PROFIN_S	Final Exam	
TOT. 57 CFU							

Choose 6 CFU for each choice n°12, 13 and 14 (total of 18 CFU)

TRACK 02 - COMPUTER SCIENCE AND MULTIMEDIA

1°Year - academic year 2016/2017

Learning Activity	CFU	N°	N°(ind.)	Compulsory	Scientific Area	Type of learning activity	Period
507320 - DIGITAL CONTENT RETRIEVAL	12	1		X	ING-INF/05	Distinctive	All Year
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	First Semester
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	First Semester
504703 - COMPUTER VISION	6	4		X	ING-INF/05	Distinctive	First Semester
504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	5		X	ING-INF/05	Distinctive	First Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	6		X	SECS-P/06	Related/Supplementary	Second Semester
504713 - ENTERPRISE DIGITAL INFRASTRUCTURE	12	7		X	ING-INF/05	Distinctive	Second Semester
504709 - HUMAN COMPUTER INTERACTION	6	8		X	ING-INF/05	Distinctive	Second Semester
TOT. 60 CFU							

Choose 6 CFU in choice n°6

2° Year - academic year 2017/2018

Learning Activity	CFU	N°	N°(ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504462 - PROCESS CONTROL	6	9			ING-INF/04	Related/Supplementary	First Semester
504463 - ROBOT CONTROL	6	9			ING-INF/04	Related/Supplementary	Second Semester
504717 - INDUSTRIAL CONTROL	6	9			ING-INF/04	Related/Supplementary	Second Semester
504718 - INFORMATION SECURITY	6	10		X	ING-INF/05	Distinctive	First Semester
504707 - ARTIFICIAL INTELLIGENCE	6	11			ING-INF/05	Distinctive	First Semester
504724 - DESIGN OF ENTERPRISE SYSTEMS	6	11			ING-INF/05	Distinctive	First Semester
507316 - DESIGN OF BUSINESS PROCESSES	6	11			ING-INF/05	Distinctive	First Semester
503234 - DESIGN OF SERVICE SYSTEMS	6	11			ING-INF/05	Distinctive	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	11			ING-INF/05	Distinctive	First Semester
504719 - ROBOTICS	6	11			ING-INF/05	Distinctive	First Semester
504705 - SOFTWARE ENGINEERING	6	11			ING-INF/05	Distinctive	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12	12-13*				Optional	
504707 - ARTIFICIAL INTELLIGENCE	6	12-13*			ING-INF/05	Optional	First Semester
507316 - DESIGN OF BUSINESS PROCESSES	6	12-13*			ING-INF/05	Optional	First Semester
503234 - DESIGN OF SERVICE SYSTEMS	6	12-13*			ING-INF/05	Optional	First Semester
504724 - DESIGN OF ENTERPRISE SYSTEMS	6	12-13*			ING-INF/05	Optional	First Semester
507288 - INTERNET AND MULTIMEDIA	6	12-13*			ING-INF/03	Optional	First Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	12-13*			SECS-P/06	Optional	Second Semester
504462 - PROCESS CONTROL	6	12-13*			ING-INF/04	Optional	First Semester
502975 - PROGETTO DI SISTEMI DIGITALI	6	12-13*			ING-INF/05	Optional	First Semester
504463 - ROBOT CONTROL	6	12-13*			ING-INF/04	Optional	Second Semester
504719 - ROBOTICS	6	12-13*			ING-INF/05	Optional	First Semester
504705 - SOFTWARE ENGINEERING	6	12-13*			ING-INF/05	Optional	First Semester
501246 - ETICA AMBIENTALE	3	14			ICAR/03	Other	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	14			ING-IND/35	Other	Second Semester
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	14			ING-INF/06	Other	Second Semester
504722 - PROJECT WORK IN COMPUTER ENGINEERING	6	14			NN	Other	
503327 - MASTER THESIS	24	15		X	PROFIN_S	Final Exam	
TOT. 60 CFU							

Choose 6 CFU for choice n°9; choose 6 CFU for choice n°11; choose 12 CFU for choices n°12-13; choose 6 CFU for choice n°14

TRACK 03 - SERVICES ENGINEERING

1° Year - academic year 2016/2017

Learning Activity	CFU	N°	N°(ind.)	Compulsory	Scientific Area	Type of learning activity	Period
507320 - DIGITAL CONTENT RETRIEVAL	12	1		X	ING-INF/05	Distinctive	All Year
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	2		X	MAT/08	Related/Supplementary	First Semester
504712 - ADVANCED COMPUTER ARCHITECTURE	6	3		X	ING-INF/05	Distinctive	First Semester
504705 - SOFTWARE ENGINEERING	6	4		X	ING-INF/05	Distinctive	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	5*				Optional	
504703 - COMPUTER VISION	6	5*			ING-INF/05	Optional	First Semester
504718 - INFORMATION SECURITY	6	5*			ING-INF/05	Optional	First Semester
504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	5*			ING-INF/05	Optional	First Semester
504719 - ROBOTICS	6	5*			ING-INF/05	Optional	First Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	6		X	SECS-P/06	Related/Supplementary	Second Semester
504713 - ENTERPRISE DIGITAL INFRASTRUCTURE	12	7		X	ING-INF/05	Distinctive	Second Semester
504709 - HUMAN COMPUTER INTERACTION	6	8			ING-INF/05	Optional	Second Semester
504716 - INDUSTRIAL INFORMATICS AND EMBEDDED SYSTEMS	6	8			ING-INF/05	Optional	Second Semester
TOT. 60 CFU							

Choose 6 CFU for choice n°5; choose 6 CFU for choice n°6; choose 6 CFU for choice n°8.

2° Year - academic year 2017/2018

Learning Activity	CFU	N°	N°(ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504703 - COMPUTER VISION	6	9			ING-INF/05	Distinctive	First Semester
504718 - INFORMATION SECURITY	6	9			ING-INF/05	Distinctive	First Semester
504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	9			ING-INF/05	Distinctive	First Semester
504719 - ROBOTICS	6	9			ING-INF/05	Distinctive	First Semester
503235 - CUSTOMER RELATIONSHIP MANAGEMENT SYSTEMS	6	10		X	ING-INF/05	Distinctive	First Semester
507315 - DESIGN OF BUSINESS SERVICE SYSTEMS	12	11		X			First Semester
Teaching Units of DESIGN OF BUSINESS SERVICE SYSTEMS							
503234 - DESIGN OF SERVICE SYSTEMS	6				ING-INF/05	Distinctive	First Semester
507316 - DESIGN OF BUSINESS PROCESSES	6				ING-INF/05	Distinctive	First Semester
504724 - DESIGN OF ENTERPRISE SYSTEM	6	12		X	ING-INF/05	Related/Supplementary	First Semester
501246 - ETICA AMBIENTALE	3	13			ICAR/03	Other	Second Semester
507220 - PLANNING, MANAGEMENT AND SUPPLY OF GOODS AND SERVICES	3	13			ING-IND/35	Other	Second Semester
504860 - REGULATORY AFFAIRS NELLA PROGETTAZIONE, SVILUPPO E CERTIFICAZIONE DI DISPOSITIVI MEDICI	3	13			ING-INF/06	Other	Second Semester
504722 - PROJECT WORK IN COMPUTER ENGINEERING	6	13			NN	Other	

503327 - MASTER THESIS	24	14			PROFIN_S	Final Exam	
TOT. 60 CFU							

Choose 6 CFU for choice n°9; choose 6 CFU for choice n°13.

TRACK 05 - DOUBLE MASTER IN SERVICES ENGINEERING A

1° Year - academic year 2016/2017

Learning Activity	CFU	N°	N°(ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	1		X	MAT/08	Related/Supplementary	First Semester
504712 - ADVANCED COMPUTER ARCHITECTURE	6	2-3			ING-INF/05	Distinctive	First Semester
504703 - COMPUTER VISION	6	2-3			ING-INF/05	Distinctive	First Semester
504718 - INFORMATION SECURITY	6	2-3			ING-INF/05	Distinctive	First Semester
504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	2-3			ING-INF/05	Distinctive	First Semester
504719 - ROBOTICS	6	2-3			ING-INF/05	Distinctive	First Semester
504705 - SOFTWARE ENGINEERING	6	2-3			ING-INF/05	Distinctive	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	6	4-5*				Optional	
504712 - ADVANCED COMPUTER ARCHITECTURE	6	4-5*			ING-INF/05	Optional	First Semester
504719 - ROBOTICS	6	4-5*			ING-INF/05	Optional	First Semester
504705 - SOFTWARE ENGINEERING	6	4-5*			ING-INF/05	Optional	First Semester
504725 - OTHER ACTIVITIES	6	6		X	NN	Other	
504858 - SYSTEMS ANALYSIS	9	7		X	ING-INF/05	Distinctive	
507320 - DIGITAL CONTENT RETRIEVAL	12	8		X	ING-INF/05	Distinctive	All Year
504859 - ADVANCED SOFTWARE ENGINEERING	9	9		X	ING-INF/05	Distinctive	
TOT. 66 CFU							

Choose 12 CFU for choice n°2 and 3; choose 12 CFU for choice n°4 and 5°.

2° Year - academic year 2017/2018

Learning Activity	CFU	N°	N°(ind.)	Compulsory	Scientific Area	Type of learning activity	Period
503235 - CUSTOMER RELATIONSHIP MANAGEMENT SYSTEMS	6	10		X	ING-INF/05	Distinctive	First Semester
507315 - DESIGN OF BUSINESS SERVICE SYSTEMS	12	11		X			First Semester
Teaching Units of DESIGN OF BUSINESS SERVICE SYSTEMS							
503234 - DESIGN OF SERVICE SYSTEMS	6				ING-INF/05	Distinctive	First Semester
507316 - DESIGN OF BUSINESS PROCESSES	6				ING-INF/05	Distinctive	First Semester
504724 - DESIGN OF ENTERPRISE SYSTEM	6	12		X	ING-INF/05	Related/Supplementary	First Semester
504708 - ECONOMICS FOR THE DIGITAL SOCIETY	6	13			SECS-P/06	Related/Supplementary	Second Semester

504464 - ORGANIZATION THEORY AND DESIGN	6	13			SECS-P/06	Related/Supplementary	Second Semester
503327 - MASTER THESIS	24	14			PROFIN_S	Final Exam	
TOT. 54 CFU							

Inserire 6 CFU nella scelta n. 13. Choose 6 CFU for choice n°13.

TRACK 06 - DOUBLE MASTER IN SERVICES ENGINEERING B

1°Year - academic year 2016/2017

Learning Activity	CFU	N°	N°(ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504710 - NUMERICAL METHODS IN ENGINEERING SCIENCES	6	1		X	MAT/08	Related/Supplementary	First Semester
503235 - CUSTOMER RELATIONSHIP MANAGEMENT SYSTEMS	6	2		X	ING-INF/05	Related/Supplementary	First Semester
507315 - DESIGN OF BUSINESS SERVICE SYSTEMS	12	3		X			First Semester
Teaching Units of DESIGN OF BUSINESS SERVICE SYSTEMS							
503234 - DESIGN OF SERVICE SYSTEMS	6				ING-INF/05	Distinctive	First Semester
507316 - DESIGN OF BUSINESS PROCESSES	6				ING-INF/05	Distinctive	First Semester
504712 - ADVANCED COMPUTER ARCHITECTURE	6	4-5			ING-INF/05	Distinctive	First Semester
504703 - COMPUTER VISION	6	4-5			ING-INF/05	Distinctive	First Semester
504718 - INFORMATION SECURITY	6	4-5			ING-INF/05	Distinctive	First Semester
504706 - MULTIMEDIA SYSTEMS AND TECHNOLOGIES	6	4-5			ING-INF/05	Distinctive	First Semester
504719 - ROBOTICS	6	4-5			ING-INF/05	Distinctive	First Semester
504705 - SOFTWARE ENGINEERING	6	4-5			ING-INF/05	Distinctive	First Semester
FREE CHOICE FROM THE UNIVERSITY COURSE OFFER	12	6				Optional	
504713 - ENTERPRISE DIGITAL INFRASTRUCTURE	12	6			ING-INF/05	Optional	Second Semester
504709 - HUMAN COMPUTER INTERACTION	6	7		X	ING-INF/05	Distinctive	Second Semester
504464 - ORGANIZATION THEORY AND DESIGN	6	8		X	SECS-P/06	Related/Supplementary	Second Semester
TOT. 60 CFU							

Choose 12 CFU for choice n°5 and 5; choose 12 CFU for choice n°6; choose 6 CFU for choice n°8.

2°Year - academic year 2017/2018

Learning Activity	CFU	N°	N°(ind.)	Compulsory	Scientific Area	Type of learning activity	Period
504858 - SYSTEMS ANALYSIS	9	9		X	ING-INF/05	Distinctive	
507320 - DIGITAL CONTENT RETRIEVAL	12	10		X	ING-INF/05	Distinctive	All Year
504859 - ADVANCED SOFTWARE ENGINEERING	9	11		X	ING-INF/05	Distinctive	
504725 - OTHER ACTIVITIES	6	12			NN	Other	
503327 - MASTER THESIS	24	13			PROFIN_S	Final Exam	

TOT. 60 CFU							

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 ("SCHEDA RAD")

HEAD OF THE TEACHING COUNCIL SIGNATURE