



Descrizione del percorso formativo

BACHELOR DEGREE COURSE IN INFORMATION ENGINEERING		
<i>Study programme for students enrolled in the academic year 2025-2026</i>		
1st YEAR		
MANDATORY UNITS	HOURS	CREDITS
CALCULUS 1	96	12
FOUNDATIONS OF COMPUTER SCIENCE	96	12
PHYSICS 1	96	12
LINEAR ALGEBRA	96	12
DIGITAL SYSTEMS	72	9
2nd YEAR		
MANDATORY UNITS	HOURS	CREDITS
CALCULUS 2	72	9
PHYSICS 2	72	9
DATA STRUCTURES AND ALGORITHMS	72	9
PROBABILITY THEORY	72	9
SIGNALS AND SYSTEMS	72	9
ELECTRIC CIRCUITS	48	6
INTRODUCTION TO MACHINE LEARNING	48	6
3rd YEAR		
MANDATORY UNITS	HOURS	CREDITS
ELECTRONICS	72	9
TELECOMMUNICATIONS	72	9
CONTROL SYSTEMS	72	9

1 FREE-CHOICE UNIT AMONG THE FOLLOWING:	HOURS	CREDITS
ALGORITHMS IN ENGINEERING	48	6
INFORMATION TRANSMISSION MEDIA	48	6
1 FREE-CHOICE UNIT AMONG THE FOLLOWING:	HOURS	CREDITS
SYSTEMS AND MODELS	72	9
MICROCONTROLLERS AND DSP	72	9
INTERNET AND SECURITY	72	9
18 ADDITIONAL FREE-CHOISE CREDITS	HOURS	CREDITS
INTERNET AND MULTIMEDIA LABORATORY	48	6
SIGNALS AND MEASUREMENT LABORATORY	48	6
COMPUTER ENGINEERING LABORATORY	48	6
OPTICAL ENGINEERING LABORATORY	48	6
TRANSMISSION MEDIA LABORATORY	48	6
MICROELECTRONICS LABORATORY	48	6
CONTROL SYSTEMS LABORATORY	48	6
ICT AND SUSTAINABILITY	48	6
FURTHER MANDATORY ACTIVITIES	HOURS	CREDITS
ENGLISH FOR STEM		3
COMPUTER SKILLS (CFU included in Foundations of Computer Science)		3
PRACTICAL TRAINING		0
FINAL THESIS		3
ANY FURTHER NOTES The Bachelor Degree in Information Engineering is managed by the Department of Information Engineering (https://www.dei.unipd.it/) which belongs to the School of Engineering (https://www.ingegneria.unipd.it/). Educational activities are organized in semesters. Class attendance is not compulsory, but strongly recommended. To take second-year exams, students must: - have acquired at least 24 credits (CFU) by passing the first-year exams detailed in the bachelor degree prospectus (or recognized as equivalent); - have taken Calculus 1 and/or Linear Algebra exams. To take third year exams, students must: - have acquired at least 72 credits (CFU); - have taken all the first-year exams detailed in the bachelor degree prospectus (or recognized as equivalent)		