TOR VERGATA
UNIVERSITÀ DEGLI STUDI DI ROMA

Department of Electronic Engineering

Master of Science in Mechatronics Engineering

CHOOSE YOUR BLOCK:　　　C1　　　C2

Study Plan - <u>Automatic Acceptance</u>

ID STUDENT

A.Y. 2025-26

FAMILY NAME

e-mail

First Name

1st year	2nd year

Your Bachelor's degree

Year of enrollment

MANDATORY SUBJECTS

Y	s	SUBJECTS	CFU	SSD	BLOCK	C
1	I	INTEGRATED SENSORS	9	ING-INF/01	ALL	9
1	II	NANOTECHNOLOGY	6	ING-INF/01	ALL	6
1	II	VLSI CIRCUIT AND SYSTEM DESIGN	9	ING-INF/01	ALL	9
2	I	CONTROL OF MECHANICAL SYSTEMS	9	ING-INF/04	ALL	9
2	I	ELECTRONICS OF IOT AND EMBEDDED SYSTEMS	12	ING-INF/01	ALL	12
2	I	ROBOT MECHANICS	9	ING-IND/13	ALL	9
2	II	COMPUTER VISION	6	ING-INF/07	ALL	6
2	II	POWER ELECTRONICS AND ELECTRICAL DRIVES	9	ING-INF/01	ALL	9
2	II	POWERTRAIN TECHNOLOGIES FOR FUTURE MOBILITY	9	ING-IND/08	ALL	9
1-2		**FORMATIVE ACTIVITIES/INTERNSHIP**	6		ALL	6
		BLOCKS (24 or 27 cfu)				84
BLOCK C1 - MECHATRONICS SYSTEMS AND ICT - LEARNING AND COMMUNICATION						**C1**
1	I	INNOVATIVE MATERIALS WITH LABORATORY	6	ING-IND/21	C1-E	6
		opt C1.a – One of the following 3 subjects:				
1		Digital Communications	6	ING-INF/03	C1	6
1	I	Information Theory and Data Science			C1	
1		Multimedia Processing and Communication			C1	
		opt C1.b – One of the following 5 subjects:				6 or 9
1	II	Digital Signal Processing	6	ING-INF/03	C1-C2	
		Digital Signal Processing	**9**		C1-C2	
		Electronic Interfaces	6	ING-INF/01	B-C1-C2-E	
2	II	Deep Learning and Applications	6	ING-INF/01	C1	
		Identification and neural networks	6	ING-INF/04	C1	
2	II	CONTROL OF ELECTRICAL MOTORS AND VEHICLES	6	ING-INF/04	C1-C2-E	6
BLOCK C2 - MECHATRONICS SYSTEMS AND ICT - INTERCONNECTED ELECTRIC VEHICLE ENGINEERING						**C2**
1	II	INTEGRATED SOLUTIONS FOR SUSTAINABLE MOBILITY AND ENERGY	6	ING-IND/08	C2	6
		opt C2.a – One of the following 3 subjects:				
1	I	On Board Energy Generation and Storage	6	ING-INF/01	C2	6
1	I	Wireless Electromagnetic Technologies	6	ING-INF/02	C2	
2	II	Radar and Localization	6	ING-INF/03	C2	
		opt C2.b – One of the following 4 subjects:				
1	II	Digital Signal Processing	6	ING-INF/03	C1-C2	6 or 9
1	II	Digital Signal Processing	9*	ING-INF/03	C1-C2	
1	II	Electric Propulsion	6	ING-IND/32	C2	
1	II	Electronics Interfaces	6	ING-INF/01	B-C1-C2-E	
2	II	CONTROL OF ELECTRICAL MOTORS AND VEHICLES	6	ING-INF/04	C2	6
		FINAL EXAM	12		ALL	12
		TOTAL CREDITS		**120 or *123**		

Date of submission

Student's signature

Date of approval

School Office (*Simona Ranieri*)

The Coordinator (*Prof. C.M. Verrelli*)