PhD in INDUSTRIAL AND INFORMATION ENGINEERING

LIST OF COURSES

Academic Year 2024-2025

CURRICULUM Information engineering				
COURSE	TEACHER	CONTACT	PERIOD	LOCATION
5G-6G/Internet of Things. Massive, reliable, efficient transmission techniques	Babich Fulvio	babich@units.it	February 14 – February 19 2025	Biblioteca Carli, Building C2, Room Arich, Building B
A deterministic method for solving optimization problems: alternating projection.	Buttazzoni Giulia	gbuttazzoni@units.it	February 19 – February 21 2025	Biblioteca Carli, Building C2
Advanced techniques for the characterization of industrial materials	Cosmi Francesca	cosmi@units.it	March 14 – April 4 2025	To be defined
Cybersecurity: a look at (some) vulnerabilities in (some) depth	Bartoli Alberto	bartoli.alberto@units.it	May 28 – June 6 2025	To be defined
Application of textile fibers in composite materials	Illesi Matteo	tecnico@armare.it	May 15 – May 16 2025	Biblioteca Carli, Building C2
Battery Management Systems	Raimondo Davide	davidemartino.raimondo@dia.units.it	June 3 – June 6 2025	Biblioteca Carli, Building C2

CURRICULUM Information engineering				
COURSE	TEACHER	CONTACT	PERIOD	LOCATION
BPM standards and research topics	Campagna Dario / Del Piccolo Alan	campagna@esteco.com, delpiccolo@esteco.com	April 1 – April 10 2025	Biblioteca Carli, Building C2
Controls and data network for energy production	Chiandone Massimiliano	mchiandone@units.it	September 9 . September 12	To be defined
DC ship power systems: evolution & research challenges	Sulligoi Giorgio	gsulligoi@units.it	To be defined	To be defined
Eco-design principles (under the new European Legislation)	Bortoluzzi Anna	anna.bortoluzzi@quotasette.it, amio@units.it	March 20 – May 22	To be defined
Electromechanical stability of alternator-network systems in the transition to renewables	Vicenzutti Andrea	avicenzutti@units.it	July 04, July 11, July 18 2025	To be defined
Methods for advanced brain imaging	Ajčević Miloš	majcevic@units.it	September 3, September 10, 2025	Biblioteca Carli, Building C2 (to be confirmed)
Microgrid modeling & control	Bosich Daniele	dbosich@units.it	May 5 – May 8 2025	To be defined
Mobile Robotics	Seriani Stefano	sseriani@units.it	February 13 – February 14 2025	Remote
Optimization methods for engineering	Poloni Carlo	poloni@units.it	May 8 – May 9 2025	To be defined
Partial differential equations-analytical and	Olivo Matteo	matteo.olivo@units.it	June 10 – June 17 2025	Biblioteca Carli, Building C2

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numerical solution methods in the engineering practice				(to be confirmed)
Robotics	Seriani Stefano	sseriani@units.it	February 10 – February 11 2025	Remote
Structural integrity: 3D crack fatigue propagation with finite elements	Lepore Marcello	marcello.lepore@dia.units.it	October 1 – October 22 2025	To be defined
The Julia Programming Language: an Introduction	Zamolo Riccardo	rzamolo@units.it	May 22 – June 6 2025	Sala Atti, Building C1
Weather data for energy simulation	Manzan Marco	manzan@units.it	May 6 2025 - May 14 2025	To be defined
Writing proposals in response to European calls	Cattivelli Valentina	valentina.cattivelli13@gmail.com	February 4 – February 17	Remote

CURRICULUM Mechanical engineering, naval architecture, energy and production				
COURSE	TEACHER	CONTACT	PERIOD	LOCATION