

## Dottorato di Ricerca in Ingegneria Industriale e dell'Informazione

Moduli di Dottorato A.A. 2021 – 2022

N.	Title	Instructors	email	Scheduling	hours	CFU
1	Discrete event simulation to model industrial systems	Lorenzo Tiacci	<a href="mailto:lorenzo.tiacci@unipg.it">lorenzo.tiacci@unipg.it</a>	NOV 2021 – DEC 2021	20	5
2	New energy sources and storage systems in the energy transition: natural gas hydrates.	Alberto Maria Gambelli	<a href="mailto:albertomaria.gambelli@unipg.it">albertomaria.gambelli@unipg.it</a>	NOV 2021 – DEC 2021	20	5
3	Analysis of mechanisms and mechanical systems	Maria Cristina Valigi	<a href="mailto:mariacristina.valigi@unipg.it">mariacristina.valigi@unipg.it</a>	NOV 2021 – APR 2022	20	5
4	Measurement systems for localization	Alessio De Angelis, Francesco Santoni	<a href="mailto:alessio.deangelis@unipg.it">alessio.deangelis@unipg.it</a> , <a href="mailto:francesco.santoni@unipg.it">francesco.santoni@unipg.it</a>	DEC 2021 – JAN 2022	20	5
5	Data-mining techniques for machines performance monitoring and early fault diagnosis	Francesco Castellani	<a href="mailto:francesco.castellani@unipg.it">francesco.castellani@unipg.it</a>	JAN 2022 – MAR 2022	20	5
6	Energy harvesting techniques for the Internet of Things	Valentina Palazzi	<a href="mailto:valentina.palazzi@unipg.it">valentina.palazzi@unipg.it</a>	JAN 2022 – MAR 2022	20	5
7	Deep learning: principles, methodologies and applications	Gabriele Costante	<a href="mailto:gabriele.costante@unipg.it">gabriele.costante@unipg.it</a>	JAN 2022 – MAY 2022	20	5
8	Distributed technologies for Big Data processing and blockchain	Luca Grilli, Fabrizio Montecchiani	<a href="mailto:luca.grilli@unipg.it">luca.grilli@unipg.it</a> , <a href="mailto:fabrizio.montecchiani@unipg.it">fabrizio.montecchiani@unipg.it</a>	JAN 2022 – MAY 2022	20	5
9	Analisi degli incidenti industriali	Paolo Conti	<a href="mailto:paolo.conti@unipg.it">paolo.conti@unipg.it</a>	FEB 2022	20	5
10	Electromagnetic compatibility	Marco Dionigi	<a href="mailto:marco.dionigi@unipg.it">marco.dionigi@unipg.it</a>	FEB 2022 – APR 2022	20	5
11	Electronic noise: theory and practice	Federico Alimenti	<a href="mailto:federico.alimenti@unipg.it">federico.alimenti@unipg.it</a>	FEB 2022 – MAY 2022	20	5
12	Multiphase models for the dynamics of fluids	Michele Battistoni, Luigi Vergori	<a href="mailto:michele.battistoni@unipg.it">michele.battistoni@unipg.it</a> , <a href="mailto:luigi.vergori@unipg.it">luigi.vergori@unipg.it</a>	APR 2022 – MAY 2022	20	5
13	Finite element analysis for structural verification. From macro to micro structures	Giulia Morettini, Massimiliano Palmieri	<a href="mailto:giulia.morettini@unipg.it">giulia.morettini@unipg.it</a>	APR 2022 – MAY 2022	20	5
14	Techniques for 3D printing and measurements	Gianluca Rossi	<a href="mailto:gianluca.rossi@unipg.it">gianluca.rossi@unipg.it</a> , <a href="mailto:massimiliano.palmieri@unipg.it">massimiliano.palmieri@unipg.it</a>	OCT 2022 – NOV 2022	20	5

<b>Total</b>	<b>280</b>	<b>70</b>
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