



Second EDITION PROGRAM - first part

Promoted by: Università di Ferrara



Academic Curriculum

01/04/2023	9:30 - 12:30	Elena Mainardi <i>Introduction to Industrial Automation and PLCs</i>
14/04/2023	14:00 - 17:00	Francesco Meoni <i>An example of digital factory integrated with 4.0 technologies: the BI-REX pilot</i>
15/04/2023	9:30 - 12:30	Marcello Bonfé <i>Introduction to Industrial Robotics and Control Networks</i>
21/04/2023	14:00 - 17:00	Gianmarco Moretti <i>Infrastructures and industrial data collection tool form Smart Manufacturing</i>
22/04/2023	9:30 - 12:30	Mauro Tortonesi <i>Digital Manufacturing: from IIoT to Digital Twin and Operations Management</i>
28/04/2023	14:00 - 17:00	Franck Ngatcha <i>Data centric approaches to product reliability and process quality optimization in Carpigiani Group</i>
26/04/2023	9:30 - 12:30	Filippo Poltronieri, Giuseppe Colosi, Massimiliano Vignoli, Marco Govoni <i>Big Data and industrial IoT solutions: the Bonfiglioli Riduttori experiences</i>
05/05/2023	14:00 - 17:00	Cesare Stefanelli, Lorenzo Maldina <i>Big Data in the Packaging Valley: the IMA perspective</i>



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Worker Curriculum

01/04/2023	9:30 - 12:30	Filippo Poltronieri <i>Introduction to Python programming</i>
14/04/2023	14:00 - 17:00	Carlo Giannelli <i>Introduction to Cybersecurity</i>
15/04/2023	9:30 - 12:30	Elena Bellodi <i>Modern databases: beyond the relational model</i>
21/04/2023	14:00 - 17:00	Claudio Bettini <i>Cloud Computing for Industry 4.0: Platform and Tools</i>
22/04/2023	9:30 - 12:30	Damiano Azzolini <i>Introduction to containers: best practices and technologies</i>
28/04/2023	14:00 - 17:00	Elena Bellodi <i>Machine Learning - Fundamentals</i>
26/07/2023	9:30 - 12:30	Mattia Fogli <i>Blockchain</i>
28/04/2023	14:00 - 17:00	Riccardo Zese <i>Introduction to Deep Learning</i>



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Common Curriculum

6/5/2023	9:30 - 12:30	Yehia Elkhatib <i>Using ML for system deployment and operation</i>
12/5/2023	14:00 - 17:00	Simon Dahdal <i>Python for Data Science</i>
13/5/2023	9:30 - 12:30	Simon Dahdal <i>MLOps for Industry 4.0</i>
19/5/2023	14:00 - 17:00	Mauro Tortonesi <i>Modern Big Data processing: technologies, programming paradigms, and architectures</i>
20/5/2023	9:30 - 12:30	Alessandro Gilli <i>Big Data: From Ingestion to Visualization</i>
26/5/2023	14:00 - 17:00	Marco Alberti <i>Introduction to DevOps</i>
27/5/2023	9:30 - 12:30	Filip De Turck <i>Immersive holographic-type communications and their applications in Industry 4.0</i>
9/6/2023	14:00 - 17:00	Alessandro Gilli <i>Big Data: Modern Storage Solutions</i>



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Common Curriculum

16/6/2023	9:30 - 12:30	Pal Varga <i>Industrial IoT, Cyber-Physical Systems and Industry 4.0</i>
17/6/2023	14:00 - 17:00	Luca Foschini <i>Computational environments for Industry 4.0: the Cloud Continuum</i>
23/6/2023	9:30 - 12:30	Lisandro Zambenedetti Granville <i>An introduction to self-driving networks and intent-based networking</i>
24/6/2023	14:00 - 17:00	Joe Weinman <i>Digital Strategy and Innovation</i>
1/7/2023	9:30 - 12:30	Gianluca D'Elia <i>Condition Based Maintenance of Mechanical Systems through Vibration Analysis</i>
7/7/2023	14:00 - 17:00	Iafelice Bruno <i>How to turn an idea into innovation: the Silicon Valley model and example in the Industry 4.0 fields</i>
8/7/2023	9:30 - 12:30	Giuseppe Serra <i>Computer Vision and Natural Language Processing for Industrial Applications</i>
14/7/2023	14:00 - 17:00	Carlo Giannelli <i>Cybersecurity for Industry 4.0</i>



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Common Curriculum

15/7/2023	9:30 - 12:30	Filippo Poltronieri <i>Containerization and IT Automation for Industry 4.0</i>
17/7/2023	14:00 - 17:00	Pietro Micheli <i>Measurement and data-informed decision-making to improve sustainability and support industry 4.0</i>
21/7/2023	9:30 - 12:30	Carpin Stefano <i>Reinforcement Learning</i>
22/7/2023	14:00 - 17:00	Marco Gavanelli <i>Optimization for Industrial Processes</i>
28/7/2023	9:30 - 12:30	Luciano Gaspary <i>An Introduction to Programmable Networks and their Application to Industry 4.0</i>
31/7/2023	14:00 - 17:00	Final exam and project presentations