Industry 4.0 in UniTo

The new industry will be characterized by developments of a range of new technologies such as artificial intelligence, robotics, nanotechnology, biotechnology, advanced manufacturing and new materials. The resulting job displacement would likely occur in labour-intensive industries. Skilled workforce is key for the development, introduction and exploitation of the Industry 4.0 potentials. Post-graduate education and vocational training programmes provide the most appropriate environment to human capital that best fit with firms’ requirements to effectively adopt new technological and organizational solutions. UniTo and, generally speaking, academic institutions should play the role not only of technological pivots, but also of gatekeepers linking industry, society and territory.
UniTo has implemented an extensive educational and training framework in a number of core fields relevant to Industry 4.0:

**Economics and Business Models**  Circular economy, Sharing economy, Business Models Canvas, Sustainability and Financials  
**Digital Technology Management** Internet of Things (IoT), Internet of Data (IoD), Big & Fast Data, Data Analytics  
**Cloud & Cloud Computing**  
**High Performing Computing**  
**Smart Product & Smart Design**  Smart Materials, Smart Prototyping, Additive manufacturing, Wearable Technologies, Design Thinking  
**Smart Human Resource Management**  Ergonomics, HR management, innovation & Skills reconfiguration, New Organizational Models  
**Smart Logistic & Maintenance Management**  
**Security & Risk Management**  Risk assessment & Risk Management  
**Design and testing of innovative materials, sensors and devices.**

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