

## PhD Program in Industrial and Information Engineering

Coordinator: Prof. Pietro Burrascano – e-mail: [pietro.burrascano@unipg.it](mailto:pietro.burrascano@unipg.it)

Department of Engineering

The PhD course program in “Industrial and Information Engineering” takes into account the fact that research activity in the field of Engineering is usually strongly inter-disciplinary and therefore the specific blend of different skills, technical languages, methodologies and tools used is of the utmost importance in the education of PhD students. The PhD course includes two main curricula (“Industrial Engineering” and “Information Engineering”), however the educational and seminar activities are common for the most part. The educational and research training includes close cooperation with teachers from other departments of the University of Perugia, and with teachers from other Italian and foreign Universities and Research Centers. The education and research activity is organized using the “Formative Credits” system: its primary goal is to develop and strengthen the research predisposition of PhD students in the following areas: Basic Education Activity, Specialist Education Activity and Assisted Research Activity.

Educational activities include a period (usually 6 months) of permanence in a qualified Italian or a foreigner Research Center.

### **The curriculum in “Industrial Engineering” includes:**

- Thermal machines
- Energy and Environmental Systems
- Technical Physics
- Industrial Design
- Mechanical Buildings
- Metallurgy
- Mechanical Manufacturing Technology and Systems
- Mechanical Industrial Plants
- Electrical Engineering
- Bioengineering
- System Engineering

### **The curriculum in “Information Engineering” includes:**

- Electronics
- Antennas and electromagnetic propagation
- Telecommunications
- Automatics
- Information Systems
- Computer Engineering