Course Syllabus for Industry 4.0 PhD (XXXVII Cycle)

Course title	Flexible and Stretchable Electronics
Scientific Discipline Sector	ING-INF/01
CFU (Hours)	2 (20)
Objective	Flexible and stretchable electronics is fostering a paradigm shift in many application domains, enabling new mass-market products including wearable devices for e-health and fitness, smart systems for individualised human-machine interaction, and e-textiles. The scope of this course is to provide the participants with a general understanding of the interdisciplinary field of flexible and stretchable electronics. The course illustrates flexible/stretchable electronics through several examples and practical hands-on lab activates. No prerequisites are required.
Syllabus	General introduction to flexible/stretchable electronics Microcontroller-based electronic systems Flexible sensors and actuators Lab-on-skin technology Flexible and stretchable devices for human-machine interfaces Electronic Textiles
Examination method	Oral Exam