Freie Universität Bozen
Libera Università di Bolzano
Università Liedia de Bulsan

Syllabus
Course description

Course title	Introduction to printing technologies and flexible components
Course code	46025
Scientific sector	ING-INF01
Degree	PhD in Sustainable Energy and Technologies
Semester	2
Year	1
Academic year	2017/2018
Credits	3
Modular	NO

Total lecturing hours	20
Total lab hours	10
Total exercise hours	
Attendance	
Prerequisites	none
Course page	

Specific educational objectives	Basic understanding of printing technologies; experimental praxis with different techniques

Lecturer	Paolo Lugli
Scientific sector of the lecturer	ING-INF01
Teaching language	English
Office hours	9
Teaching assistant *(if any)*	
Office hours	
List of topics covered	Introduction to nanostructures, ink formulations, printing techniques, additive manufacturing, introduction to passive and active electronic components; overview of the application fields (production, sensing, agriculture, health, energy)
Teaching format	Frontal lectures, blended learning, individual literature review, presentation on a given topic, small practical project

Learning outcomes	**Knowledge and understanding:** theoretical know-how on printing technologies for electronic components **Applying Knowledge and understanding: pratical** know-how on printing technologies for electronic components

	Making judgments: **Communication skills:** ability to give a presentation supported by power-point **Learning skills:** performing a literature review on a given topic; extracting the most valuable information and embedding it in a presentation
Assessment	Presentation and project
Assessment language	English
Evaluation criteria and criteria for awarding marks	Quality of the presentation, engagement in the lab project

Required readings	Assigned in class
Supplementary readings	Assigned in class