

Syllabus

Course description

| | |
|--|--|
| Course title | Materials and sensors for Food Engineering and Biotechnologies |
| Course code | 46039 |
| Scientific sector | ING-INF/01 |
| Degree | PhD in Food Engineering and Biotechnologies |
| Semester | 1 |
| Year | 1 |
| Academic year | 2020/2021 |
| Credits | 3 |
| Modular | NO |
| Total lecturing hours | 30 |
| Attendance | Presentation and brief article are mandatory to fulfill the course requirements |
| Prerequisites | none |
| Course page | |
| Specific educational objectives | Basic understanding of materials and sensor technologies; praxis with presentations and scientific writing on topics related to the course |
| Lecturer | Prof. Paolo Lugli |
| Scientific sector of the lecturer | ING-INF/01 |
| Teaching language | English |
| Office hours | 9 |
| Teaching assistant (if any) | |
| Office hours | |
| List of topics covered | Introduction to materials and nanostructures, sensor technologies, fabrication techniques, printing techniques, additive manufacturing; overview of the application in the fields of biotechnology, food engineering and agriculture |
| Teaching format | distant lectures offered via TEAMS platform, individual literature review, presentation on a given topic. |
| Learning outcomes | <p>Knowledge and understanding: theoretical know-how on sensor technologies and materials</p> <p>Applying Knowledge and understanding: practical know-how on sensor technologies and materials</p> <p>Making judgments:</p> <p>Communication skills: ability to give a presentation supported by power-point</p> |

| | |
|--|--|
| | Learning skills: performing a literature review on a given topic; extracting the most valuable information and embedding it in a presentation, scientific writing |
| Assessment | There will be no final exam. Presentation and brief article are mandatory to fulfill the course requirements |
| Assessment language | English |
| Evaluation criteria and criteria for awarding marks | Quality of the presentation and of the scientific article |
| Required readings | Assigned in class |
| Supplementary readings | Assigned in class |