Smart Objects Basic Information

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Lecture 1







Instructors

1. Ioannis Chatzigiannakis

Alessio Paoletti

3. Marco Zecchini

Things, Data Science.

Engineering (DIAG)

User Centered Design

Internet of Things.

Engineering (DIAG)

Computer Engineering, Distributed Computing, Internet of

Emotional Design, Neuroscience and Design, Neurodesign,

Department of Planning, Design, Technology for Architecture

Distributed Ledger Technologies, Blockchain, Data Science,

Department of Computer, Control and Management

Department of Computer, Control and Management





- ▶ Made up of two modules: Smart Objects – 6 CFU (ING-ING/05) – Ioannis + Marco
- Open Design 3 CFU (ICAR/13) Alessio Laboratory takes place every Monday:
 - 11:30 13:30 Smart Objects
 - ▶ 14:30 16:30 Open Design
 - ▶ 17:00 19:00 Smart Objects

- In-person and online classes: In-person classes will take place in Classroom F7, via Flaminia,
- Online classes will take place using a fixed Google Meet virtual
- - https://meet.google.com/esk-ydjp-uvr

- Students in-person attendance booking system: https://prodigit.uniroma1.it
- Make sure you follow all the Access & Safety Proceedures: https://www.uniroma1.it/en/notizia/ covid-19-phase-2-procedures-students-staff-and-guests









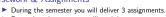


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Communication Via dedicated Slack Channel: https://sapienza2020so.slack.com/ Every Monday during lab hours.

Required Material Paper-roll, markers, crayons, highlighters, sticky notes, etc. Arduino Kit

SMART. 4 m x 4 m x 4 2 x 4 2 x 3 x 4 0 4 0 Coursework & Assignments



- For each assignment you will work in groups. Each group will be made up from 3 students.
- Different groups for each assignment. Each assignment is about creating a Smart Object:
 - Different shapes, materials, characteristics, functionalities. Different sensors, actuators.
- Different interaction and user experience. Each assignment is evaluated:
 - Design: Analysis. Prototypes. Aesthetics.
 - 2. Research & Experimentation. 3. Interaction. Technology & Integration.

Final Mark

Each assignment is marked from 0 . . . 6.

SMART.

- Each group will deliver 1 video of 5 minutes before the delivery day. During the delivery day you will need to present your work in
- 90 seconds. Answer questions.
- All marks are announced at the end of the day. Each group gets 1 mark.

Arduino Uno or similar

► Starter Kit (e.g., Elegoo)

- Final exam
 - Students are examined individually.
 - Students may decide to try to improve one of the deliveries.
- Final mark
 - The 3 marks of each assignment. +/- for participation during laboratories.
 - +/- from changes made during final exam.





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