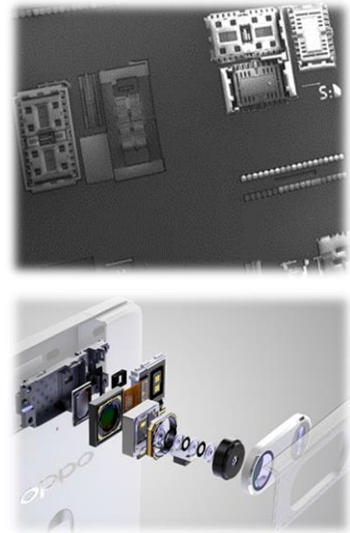


Milano, September 1st 2023

Dear students,

let me first of all warmly welcome you to the **M.S. in Electronics Engineering**. Whether you are continuing your career at Politecnico, or you arrive from other universities in Italy or abroad, this will be for sure a special semester for all of you.

This short letter is motivated by the didactic approach that I will use this semester for the course of **MEMS and Microsensors**, for which details are given below. Please read them carefully.



Let me start with a few motivations: as you know, we learnt a lot from the COVID period, in terms of didactics optimization and new chances offered by remote teaching. At the same time, we all felt bored after three semesters of (almost) online classes only. This is why the idea, for some selected courses in Politecnico, is to combine the best of the two approaches, in **a new, post-COVID, didactics**.

For this purpose, the didactics will be **a mix of high-quality, pre-recorded virtual classes**, especially for theoretical topics, **and highly interactive live classes**, especially for numerical exercises, question-and-answer (Q&A, or flipped) classes, and practical activities through CAD laboratories.

This has the triple aim of (i) **minimizing overlap** with other courses, (ii) **optimizing the quality of the didactics** through registered videos, and (iii) **stimulating a new way of teaching, interacting, and understanding**.

All theoretical classes will be pre-recorded with the highest quality – though a few of them will also be given live, like the very first and last classes. All pre-recorded lectures will be **made available to the students of the course since the beginning course**. Each student will be thus able to watch the videos in the moment that she or he finds the most suitable: this gives you a freedom of either following the official timetable slots, or self-organizing your studies.

Numerical exercises will be regularly given in live classes. On suitable days, **a review, discussion, deepening, and Q&A sessions of the recorded classes will also be done jointly in a virtual or live class.**

A typical week will be thus organized as follows for MEMS and Microsensors:

- **pre-recorded theoretical classes**, which are nominally on Monday and Friday morning (8.15 to 10.15 AM), **are all available since the beginning**. Students are **recommended to watch the pre-recorded videos** at any time before the numerical exercises of the same week;
- on Wednesday and Thursday afternoon, there will be **live (in classroom) numerical exercises or laboratories** (registration will be made available afterwards);
- on a few Friday mornings, one hour right after the pre-recorded class (10.15 to 11.15 AM), there will be a **flipped classroom** consisting of live student questions to the Professor/Assistant to discuss the lectures and exercises studied during the week, gathering and discussing various topics.

You can find more details and the day-by-day program on the course website page:

<https://www.sensorlab.deib.polimi.it/Education.php>

I really hope you will enjoy this approach: the partial **lack of interaction** caused by the recorded classes will be **fully recovered** in the numerical exercises, laboratories, and in the dedicated discussion classes on Friday, which will be taught by myself.

The **course program is following exactly the same schedule of previous years**, so that students of past years do not have to worry about the topics – they will remain the same.

As an additional item that may help you manage your semester, I am **planning an additional anticipated exam session for this course**, just after the end of the classes (**before Christmas**): those of you who will organize their time through pre-recorded classes, and want to take this chance, will have a less crowded exam session in January.

The first class will be live in room IV at 2.15 on Wed 13th. Hope to see many of you joining the course!

For any questions, you can use the email address below.

Giacomo Langfelder

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