

MICRO-700 **Advanced analog IC design**

Kayal Maher

Cursus	Sem.	Type
Electrical Engineering		Obl.
Microsystems and Microelectronics		Obl.

Language of teaching	English
Credits	2
Session Exam	Written & Oral
Workload	60h
Hours	32
Courses	32
Number of positions	

Remark

August 31st to September 4th, 2020

Summary

This course is aimed at providing engineers with up-to-date information on important current issues of design in analog and mixed-mode integrated circuits. In general, the content of the lectures covers introduction, state-of-the-art in the specific field and practical case studies.

Content**Resources****Ressources en bibliothèque**

- [Analog-to-Digital Conversion / Pelgrom](#)
- [RF analog impairments modeling for communication systems simulation : application to OFDM-based transceivers / Smaini](#)
- [Methodology for the Digital Calibration of Analog Circuits & Systems / Kayal](#)
- [All-Digital Frequency Synthesizer in Deep-Submicron CMOS / Staszewski](#)
- [Analog Design Essentials / Sansen](#)
- [Structured Analog CMOS Design / Kayal](#)
- [Charge-Based MOS Transistor Modeling: The EKV Model for Low-Power and RF IC Design / Enz](#)
- [Understanding Delta-Sigma Data Converters / Pavan](#)
- [Understanding delta-sigma data converters / Schreier](#)