EE-490(d)	Lab in microelectronics				
	Décurnex André				
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Cursus	Sem.	Туре	Language of	English
Electrical and Electronical Engineering	MA1, MA3	Opt.	teaching	English
Mineur STAS Chine	Н	Opt.	Credits Withdrawal	4 Unauthorized
			Session	Winter

# Summary

Study of some useful circuits mainly in telecommunication systems.

#### Content

A-D and D-A Conversion Modulation & Demodulation PLL Initiation to HF Electronics SSB Transmiter or Receiver

# **Learning Prerequisites**

Recommended courses Circuits et Systèmes Electronique II Techniques HF & VHF

## **Learning Outcomes**

By the end of the course, the student must be able to:

- Choose a type of circuit suiting the needs
- Dimension the circuit
- Optimize a circuit in case of conflicting requirements
- Transcribe results in a written report

#### **Transversal skills**

- Assess progress against the plan, and adapt the plan as appropriate.
- Communicate effectively, being understood, including across different languages and cultures.

#### Teaching methods

Practical Lab Work in team of two students



Fall

120h

14

It is not allowed to withdraw from this subject after the registration deadline.

During the semester

4 weekly

4 weekly

Semester

Workload

ΤP

Number of positions

Weeks

Hours

Exam

Calculate components values Detailled Analyzis of Performances Writing a report of results

## **Assessment methods**

Evaluation of the report

## Supervision

Office hours	Yes
Assistants	No
Forum	No

# Resources

**Bibliography** Course Circuits et Systèmes Electronique II Course Techniques HF & VHF

## Ressources en bibliothèque

- Circuits et Systèmes Electronique II / Declerq
- Techniques HF & VHF / Enz

#### Moodle Link

• http://moodle.epfl.ch/course/view.php?id=7501