EE-490(e)	Lab in microwaves	5			
	Skrivervik Anja				
Cursus		Sem.	Туре	Language of	English
Electrical and Electronical Engineering		MA1, MA3	Opt.	teaching	Englion
				Credits	4
				Withdrawal	Unauthorized
				Session	Winter
				Semester	Fall
				Exam	During the semester
				Workload	120h
				Weeks	14
				Hours	4 weekly
				Practical work	4 weekly
				Number of positions	
				from this s	wed to withdraw subject after the ion deadline.

Summary

This lab teaches the major measurement techniques used in microwaves

Content

- the slotted line
- microwave couplers
- time domain reflectometry
- antenna measurement
- spectrum anayser
- network analyser
- noise measurement

Keywords

microwaves, SA, VNA, slotted line, antennas

Learning Prerequisites

Required courses electromagnetism

Recommended courses microwaves (in parallel)

Learning Outcomes

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

- Use tn Imajor measurement techniques in microwaves
- Analyze results
- Estimate measurment precision

EPFL

Transversal skills

- Write a scientific or technical report.
- Collect data.
- Make an oral presentation.

Teaching methods

labs, discussions and presentations

Expected student activities

- do the experiments
- synthetize the results
- present and discuss the results
- do a report

Assessment methods

Both the work in the lab and the reports will be assessed

Resources

Websites

• https://www.epfl.ch/labs/mag/page-141487-en-html/

Moodle Link

• https://go.epfl.ch/EE-490_e