DIM-OPT-423 Metrology

SEMESTER: Spring
CREDITS: 3 ECTS (2 hrs. per week)
LANGUAGE: English
DEGREES: GITI

Course overview
This course is an introduction to metrology. It gives an overview on uncertainty calculations and focus on dimensional and geometrical metrology focus on GPS standardization.

Prerequisites
Basic knowledge of statistics and technical drawing.
Course contents

Theory:


Laboratory:

There will be four 2-hour sessions.

P1. Geometrical lab. Practices (profilemetry and roughness)
P2. Geometrical lab. Practices (vision machine and form measurement)
P3. Calliper/micrometer/goniometer calibration
P4. Screw measurement.

Textbook
- VIM and GUM

Grading
The following conditions must be accomplished to pass the course:
- A minimum overall grade of at least 5 over 10.
- A minimum grade in the final exam of 4 over 10.

The overall grade is obtained as follows:
- Exams 60%.
- Continuous evaluation, homework, lab 40%.