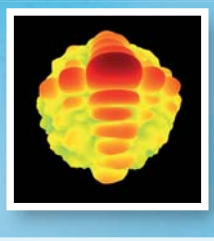

Antenna Measurement Course

ACQUIRE ADVANCED THEORETICAL KNOWLEDGE AND IN-DEPTH PRACTICAL SKILLS

The course is an intensive 5 day study on state-of-the-art near and far-field antenna measurement techniques. It combines theoretical sessions with hands-on exercises. This allows participants to put newly acquired theory to practice and gives insight into all aspects of practical antenna measurements. The course also gives the fundamentals of recognizing and troubleshooting erroneous measurements due to testing variables and possible complications. The course is divided in four main parts covering all aspects of practical antenna measurements:

1. Antenna Measurement Theory
2. Antenna Measurement Preparation
3. Actual Measurement Execution
4. Trouble Shooting and Interpretation of Measurement Results

INTENDED FOR

The course is aimed at PhD students, engineers, scientists, engineering managers and practicing antenna measurement technicians who need to thoroughly understand and practice the theory and principles of antenna measurement techniques.

TEACHING METHODOLOGY

The intensive course uses a combination of theoretical and hands-on sessions. The theoretical course material will be put to use in several practical measurement exercises using SATIMO multi-probe measurement systems (SG64, StarLab).

Date and Location

14 June – 18 June 2010, Paris, FRANCE

Prerequisite

Basic antenna knowledge

Course Coordinators

- Dr. Manuel Sierra Castañer, Universidad Politécnica de Madrid (UPM), m.sierra.castaner@gr.ssr.upm.es
- Lars Jacob Foged, Satimo, lfoged@satimo.com

Registration Fees

- Non-profit institutions: 400 €
- For-profit institutions: 1000 €
- Grants are offered for up to 5 students.

Availability

- 24 students

Credits

- 2 ECTS credits

CONTACT
Further information and registration:
http://www.antennasvce.org/Community/Education/Courses

European School of Antennas · DTU · MVG Microwave Vision Group · SATIMO · ORBIT FR · AEMI · POLITÉCNICA · Politecnico di Torino Antennas and EMC Lab

DETAILED CONTENT

Antenna Measurement Theory
- Introduction to antenna measurements
- Far-field systems and compact ranges
- Power Gain: 3-antenna measurement method
- Spherical, planar and cylindrical near-field systems

Antenna Measurement Preparation
- Alignment techniques
- Calibration and golden standards
- Measurement uncertainty

Actual Measurement Execution
- Antenna measurement

Trouble Shooting and Interpretation of Measurement Results
- Antenna diagnostics
- Practical diagnostics of disruptive technical elements
- Measurement results
- Antenna measurement diagnostics

SCHEDULE

- 20 hours for theoretical lessons
- 10 hours for practical exercises
- Technical tour, social tour and final exam

TEACHERS

- Prof. Manuel Sierra Castañer, Dr., Assoc.Prof, UPM - Universidad Politécnica de Madrid
- Sara Burgos, UPM - Universidad Politécnica de Madrid
- Sergey Pivnenko, Dr., Assoc.Prof, DTU - Technical University of Denmark
- Giuseppe Vecchi, Prof., Politecnico Di Torino
- Ph. Garreau, Dr., Microwave Vision
- Lars Jacob Foged, Satimo

Location