



EURAMET Training Course on Electrical Power, Energy and Power Quality Measurement and Calculation of Measurement Uncertainty

11 - 15 March 2019 / 18 - 22 March 2019 (repetition)
TÜBITAK-UME, Gebze, Turkey
Agenda version 2019-02-18

Monday, 11 or 18 March 2019 - Day 1

08:45 Registration

09:00 Welcome and Opening

Introductory Round

Objectives of the Training Course and Workshop

09:30 – 17:00 AC Power & Energy Measurements in General Energy Meter

Measurements

Tuesday, 12 / 19 March 2019 - Day 2

09:00 – 17:00 Precision Active, Reactive and Apparent Power

Measurements

Uncertainty calculations

Wednesday, 13 / 20 March 2019 - Day 3

09:00 − 17:00 **Laboratory Work:**

- Practices on AC Power & Energy Measurements
- Using Digital Sampling Method for AC Power Measurements
- Prediction, Definition, Calculation and Compensation of Errors
- Calibration of Energy Meters & Energy Standards
- Need for Isolation Current Transformers in Three-Phase Energy Meter Measurements

Thursday, 14 / 21 March 2019 - Day 4

09:00 – 17:00 **Power Quality Measurements; Harmonics and Flicker Uncertainty Calculations**

Friday, 15 / 22 March 2019 - Day 5

09:00 – 17:00 **Laboratory Work:**

- Practices of Power Quality Measurements
- Harmonic Current and Voltage Measurements (PQ Analysers, PQ Sources)
- Flicker Measurements (Flicker Meters)
- Data Analysis
- Measurement Uncertainty

17:00 Closure of the Training Course

Lunches and coffee breaks will be announced in the sessions

Lecturers

- Hüseyin Çaycı, TÜBITAK-UME
- Tansu Kefeli, TÜBITAK-UME
- Özlem Yılmaz, TÜBITAK-UME
- Stanislav Maslan, CMI (Invited Lecturer)