



## SUBJECT DATASHEET

<b>Semester:</b>	2010/11/1
<b>Subject:</b>	Validation of Measurements
<b>Code:</b>	VEMKKAM422V
<b>Responsible department:</b>	Department of Analytical Chemistry
<b>Responsible department code:</b>	MKKA
<b>Responsible lecturer:</b>	dr. Tamás Pap

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### Educational objectives:

Understanding of the validation of the measurements.

### Detailed content of the subject:

1. Requirements of the ISO IEC MSZ 17025: 2005 standard for the laboratories. 2. Editing of validation plan. 3. Validation report: specificity and selectivity. Linearitás. 4. Validation report: Linearity. Calculation by regression analysis. 5. Validation report: Accuracy. Calculation by regression analysis. Confidence interval of the slope and intercept. 6. Validation report: Precision. Calculation by relative standard deviation (RSD). 7. Validation report: Repeatability. Calculation by analysis of variance (ANOVA). 8. Validation report: Stability and Ruggedness. 9. Validation report: Detection limit (DL), Quantitation limit (QL) 10. Validation report of chromatographic analysis. 11. Validation report of volumetric analysis. 12. Calculation the data for the validation report using excell. 13. Summary of the statistical methods using quality assurance in the laboratory. 14. Calibration. Calculation of the calibration curve using least square method. Organization and evaluation of an interlaboratory test.

### Requirements:

The topics of the lectures.

### Required and suggested references:

Dr. Inczédy János: Folyamatos és automatikus analízis. Műszaki Könyvkiadó, Budapest, 1984.