

Study program: Integrating Academic Studies in Pharmacy				
Course title: Accreditation of Testing Laboratories				
Teacher: Ljilja D. Torović, Branislava U. Srđenović Čonić, Nebojša V. Kladar				
Course status: Elective				
ECTS Credits: 3				
Condition: /				
Course aim				
Introduction to the accreditation of testing laboratories.				
Expected outcome of the course:				
Knowledge: Guidelines, recommendations, and tools used in the process of laboratory accreditation.				
Skills: Capacity for professional work in the field of accreditation of testing laboratories.				
Course description				
Theoretical education				
General requirements: impartiality and confidentiality. Structural requirements. Resource requirements: personnel; facilities and				
environmental conditions; equipment; metrological traceability; externally provided products and services. Process requirements:				
review of requests, tenders and contracts; selection, verification and validation of methods; sampling; handling of test items;				
technical records; evaluation of measurement uncertainty; ensuring the validity of the results; reporting of the results -common and				
specific requirements, reporting statement of conformity, reporting opinions and interpretations; complaints; nonconforming work;				
control of data and information management. Management system requirements: documentation, control of documentation and				
records; actions to address risks and opportunities; improvement; corrective actions; internal audits; management reviews.				
Practical education				
Method verification and validation - selection and determination of performance characteristics (limits of detection and				
quantification, linearity, precision, trueness). Assessment of measurement uncertainty - identification and quantification of				
contributions to measurement uncertainty. Internal quality control – plans and procedures (selection of procedures and control				
samples), collection and evaluation of data.				
Literature				
Compulsory:				
1. SRPS ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories. Belgrade: Institute of				
Standardisation of Serbia; 2017.				
Additional:				
1. Barwick VJ, Prichard E (Eds). Eurachem guide: Terminology in analytical measurements – Introduction to VIM 3. Eurachem;				
2011. Available from: www.eurachem.org.				
2. Magnusson B, Ornemark U, editors. Eurachem Guide: The Fitness for Purpose of Analytical Methods – A Laboratory Guide to				
Method Validation and Related Topics. 2nd ed. Eurachem; 2014. Available from: www.eurachem.org.				
3. Nordiest 18567. Internal quality control nanobook. Osio, Norvay: Nordic Innovation Centre; 2008. Available from:				
www.nordiest.nno. A Nordtest TR537 Handbook for calculation of measurement uncertainty. Oslo, Nonyay: Nordic Innovation Centro: 2009, Available				
from: www.pordtect.info				
5 II AC-G8:09/2019: Guidelines on Decision Rules and Statements of Conformity Silverwater Australia: II AC: 2019 Available				
from: www.ilac.org				
Number of active classes	Theoretical classes: 30 Practical classes: 15			
Teaching methods				
Theoretical and practical essay				
Student activity assessment (maximally 100 points)				
Pre-exam activities	noints	Final exam points		
	5	Written -		-
Practices	35	Oral 60		60
Colloquium	-			

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Essay