

(1.) Course Title: INFPHD438 Requirements Engineering	Credit value: 6
Course classification: optional, non-repeatable	
Proportion of theoretical vs. practical nature (“training character”): 60–40 (credit%) ¹³	
Type and number of classes: 2 lectures + 1 consultations; total 3 hours in the given semester	
Additional (specific) methods and characteristics applied in delivering the material: – thematic presentations Assessment method (exam / midterm / other): midterm report Additional (specific) methods used in assessment: topic elaboration	
Curriculum placement (semester): 1	
Prerequisites (if any): —	
Course Description: concise yet informative summary of the required knowledge • The importance of requirements analysis and its relation to the project life cycle. • Levels and types of requirements. Interactions between requirements. The Kano model. The process framework of requirements management. • Overview of traditional and agile development (roles, responsibilities, planning, CI, early feedback, retrospective). From product vision to the Scope document. Agile workflow. Sources of requirements, system and context. • Techniques for requirements elicitation. Analysis and negotiation (features, prioritization, risk analysis, conflict management, workshops, refinement techniques). • Methods of documentation. • Validation of requirements and its approaches. • Requirements management: views, priority, traceability, version control. • Tool support. • Requirements management in an agile development environment. • Case study.	
The 2–5 most important required or recommended references (textbook, monograph) (listed with bibliographic data including author, title, publication data, and ISBN) • Pohl, Klaus, Rupp, Chris : Requirements Engineering Fundamentals: A Study Guide, Rocky Nook, 2011, ISBN:1933952814 9781933952819 • Wiegers, Karl, Beatty, Joy: Software requirements, 3rd ed. Microsoft Press, 2014. ISBN-13: 978-0735679665, ISBN-10: 0735679665 • Dean Leffingwell, Don Widrig: Agile Software Requirements: Lean Requirements Practices for Teams, Programs, and the Enterprise, 6th ed., Addison Wesley, 2011.	
List of the prescribed professional competencies (knowledge, skills, etc.) to which this course contributes significantly	
Knowledge: • Knows the fundamental principles forming the general body of knowledge of the field. • Understands the relationships and conceptual system associated with these principles, with particular emphasis on the development of software applications and services. • Knows the design and requirements-analysis processes of the IT domain. • Knows the specialized tools of the field.	

- Knows the means of effective communication.
- Understands the most important ethical, legal, and economic aspects and societal impacts of the field.

Skills

- Able to apply general principles, facts, rules, and relationships of the field.
- Able to apply formal and semi-formal models of the field.
- Able to perform design-related tasks within the domain.

Attitudes

- Accepts and authentically represents the fundamental principles of the profession.
- Accepts the work and organizational culture rules and ethical principles of the field.
- Seeks cooperation with experts of other fields.
- Takes the legal regulations of the field into account in professional work.

Course Responsible (name, position, academic degree):

Attila Kovács, Univ. Professor

Instructors involved in teaching the course (if any): -