

## Course description

<b>Course abbreviation:</b>	KI/0147	<b>Page:</b>	1 / 2
<b>Course name:</b>	Project Seminar InWest RFID I		
<b>Academic Year:</b>	2012/2013	<b>Printed:</b>	26.04.2024 18:38

<b>Department/Unit /</b>	KI / 0147			<b>Academic Year</b>	2012/2013
<b>Title</b>	Project Seminar InWest RFID I			<b>Type of completion</b>	Pre-Exam Credit
<b>Accredited/Credits</b>	No, 5 Cred.			<b>Type of completion</b>	Combined
<b>Number of hours</b>	Seminar 5 [DNU/SEM]				
<b>Occ/max</b>	Status A	Status B	Status C	<b>Course credit prior to</b>	NO
<b>Summer semester</b>	0 / -	0 / -	0 / -	<b>Counted into average</b>	NO
<b>Winter semester</b>	0 / -	0 / -	8 / -	<b>Min. (B+C) students</b>	not determined
<b>Timetable</b>	Yes			<b>Repeated registration</b>	NO
<b>Language of instruction</b>	English			<b>Semester taught</b>	Winter semester
<b>Optional course</b>	Yes			<b>Internship duration</b>	0
<b>Evaluation scale</b>	S N				
<b>No. of hours of on-premise</b>					
<b>Auto acc. of credit</b>	No				
<b>Periodicity</b>	K				
<b>Substituted course</b>	None				
<b>Preclusive courses</b>	N/A				
<b>Prerequisite courses</b>	N/A				
<b>Informally recommended courses</b>	N/A				
<b>Courses depending on this Course</b>	KI/0149				

### Course objectives:

Radio frequency identification, radio frequency identification (RFID) is the next generation of identifiers designed (not only) to identify the goods, following the bar code system. Like bar codes used for contactless communication at short range. The course includes an introduction to the issue of RFID from a theoretical and practical point of view and also with the methodology of software development for these systems. The aim of this course is to follow a specific design solutions applicable to any of the businesses. Proposed solutions will be presented to selected companies at the closing conference.

### Requirements on student

Zpracování dílčího tématu formou seminární práce a účast na semináři a workshopech

### Content

1. The design of RFID technology, transmission frequency
2. Types of RFID (active passive)
3. Ways to retrieve the information stored in the chip
4. Standards, costs
5. RFID applications / systems
6. Logistics, production, installation
7. Problem RFID
8. Software development process models (overview)
9. ISO standards related to software development view
10. Project management, code management and collaboration tools

### Prerequisites - other information about course preconditions

### Competences acquired

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**Fields of study**

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**Guarantors and lecturers**

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- **Guarantors:** doc. RNDr. Mgr. Viktor Maškov, DrSc. (100%)
- **Seminar lecturer:** Ing. Toni Koluch, Ph.D. (100%)

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**Literature**

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**Teaching methods**

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Monologická (výklad, přednáška, instruktáž)  
Dialogická (diskuze, rozhovor, brainstorming)

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**Assessment methods**

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**Course is included in study programmes:**

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