1.		**Course title**	Advanced Management Information Systems
2.		**Course code**	ITMW03
3.		**Semester**	9
4.		**Unit offering the course**	Faculty of Computer Science and Engineering
5.		**ECTS**	6
6.		**Goals of the study programme**	
		Managing the data in an organization and using data to extract objective information about the state of the organization and the possible directions and paths of future action over shorter and longer periods of time is a necessary basis to conduct business in a smart way in modern organizations. Integrated information systems as solutions at the level of the entire organization, are the leading pillar in such advancement of organizations. The aim of the course is for the student to get acquainted with information systems and to focus on the key aspects in providing solutions based on integrated information systems - from the way they are designed, the organization of the life cycle, development, commissioning, to the shutdown and transition to new solutions.Competencies that the student is expected to acquire after completing the course:- To understand the importance of introducing management information systems to innovative organizations, companies and institutions in various fields- To know how to apply ready-made platforms for building information systems and to map the typical functionalities of ready-made platforms, against the real demands of the users- To know how to use modern methodologies for organizing the process of development of information systems- To be able to manage projects that cover the entire life cycle of information system development at the level of the entire organization- To be able to reasonably analyze and critique past projects for development of information systems and ready-made systems in use	
7.		**Contents of the study programme**	

	Topics covered within this course:- Introduction to the field of information systems. The body of knowledge and the system of competencies in the field of information systems.- History of the development of the field of information systems.- Managing organizations with the help of objective indicators, analytics and established knowledge. The importance of data and information management.- Information systems - as a complex of people, technologies and organizational schemes.- Ready-made information systems - characteristic types of ready-made information systems in a typical organizational setting.- Development of owned solutions for information systems. Development methodologies.- Development technologies and modern information systems architectures- Management of information systems development projects and information systems life cycle.- Life cycle - conceptualization of information systems, typical stages of development - from concept to model, from model to architecture, from architecture to realization, from realization to implementation, from implementation to transition.- Quality assessment of information systems. Maintaining quality in the life cycle of information systems.- Ethical dilemmas in information systems.- Research and scientific development in the field of information systems.