Syllabus of Module

6. Business Information Systems

Lecturer: Ing. Tomáš Rain, Ph.D.

Module Annotation

Interpretation and discussion will be conducted, from the general definition of the system, information, information system through the definition of individual types of information systems. The lecture also includes the history of information systems and the definition of the link between corporate information systems and other disciplines: mainly management, controlling and accounting.

After defining the basic concepts, the interpretation will continue with the description of the SW life cycle and its link to the selection of a new information system. The lecturer will also list specific critical factors that may affect the correct selection and implementation of the information system in the company. In addition, the interpretation will discuss the exchange of data between information systems.

Thematic areas of lectures and consultations on the subject:

o   Information system – definition of the information system, classification of information systems

o   Information pyramid and control pyramid

o   Product Life Cycle of SW, or how to choose the right information system

o   Version and modification of information systems

o   Critical factors in the implementation of information systems

o   Data exchange between information systems: EDI, XML, API, ODBC

o   Social networks – creation and history, overview of contemporary social networks and their use for companies

o   Service Oriented Architecture (SOA) – definition of the concept, use of SOA in the development of applications, principles of SOA

o   Web Applications and Internet Technologies

o   Selection procedure – demand document, course of the selection procedure, knowledge from practice

o   Information strategy: definition, creation and implementation of an information strategy in an enterprise

o   System Integration

Module Objective

The aim of the module is to provide students with basic knowledge in the field of corporate information systems theory and system integration. Students will become acquainted with the typical definitions of information systems, with the categorisation of type information systems used in enterprises. Students will be guided towards independent analytical thinking on topics related to the innovation of information systems, the introduction of new information systems and system integration.

Literature

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2. BUCHALCEVOVÁ, Alena. Zlepšování procesů při budování informačních systémů. Prague: Oeconomica, nakladatelství VŠE, 2018. ISBN 978-80-245-2235-7.

3. DOHNAL J., POUR J. Architektury informačních systémů v průmyslových a obchodních podnicích, Ekopress, Praha 1997, 301 s., ISBN 80-86119-02-05.

4. LAUDON, K. LAUDON, J. Management Information Systems: Managing the Digital Firm. Pearson, 2019. 656 p. ISBN-10: 1292296569.

5. PEARLOSN, K.E. Managing and Using Information Systems: A Strategic Approach. Wiley; 7th ed. Edition, 2019. 368 p. ISBN-10: 111956056X,

6. ŠVARCOVÁ, Ivana and Tomáš RAIN. Informační management. Prague: Alfa Wydawatelství, 2011. Alfa Nakladatelství. ISBN 978-80-87197-40-0.

7. VOŘÍŠEK, Jiří. Strategické řízení informačního systému a systémová integrace. Prague: Management Press, 1997. ISBN 80-85943-40-9.

Enterprise Information Systems

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