

- Faculté des sciences économiques
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Information systems (5MI1007)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Bachelor en sciences économiques, orientation comptabilité/finance	Cours: 2 ph TP: 2 ph	écrit: 2 h	6
Bachelor en sciences économiques, orientation économie politique	Cours: 2 ph TP: 2 ph	écrit: 2 h	6
Bachelor en sciences économiques, orientation management	Cours: 2 ph TP: 2 ph	écrit: 2 h	6
Bachelor en sciences économiques, orientation ressources humaines	Cours: 2 ph TP: 2 ph	écrit: 2 h	6
Bachelor en sciences économiques, orientation systèmes d'information	Cours: 2 ph TP: 2 ph	écrit: 2 h	6

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Printemps

Equipe enseignante:

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Objectifs:

Learn how IT based processing and analysis of enterprise information sources supports management decision making processes and efficient control of the enterprise

In order to achieve this goal the course focuses on developing and applying relevant and action oriented knowledge.

In the lecture theater students are familiarized with theoretical concepts, models and technology based approaches in the field of business intelligence.

Students are able to:

- Evaluate the strategic and systemic aspects of modern information systems
- communicate with the main technical terms used in business process management
- model process maps and process architectures
- compare process reference models with real process requirements
- model business processes modeled in BPMN
- explain various aspects of motivation for use of standard and customized software
- understand customizing and administration tasks in an ERP system
- Recognize the necessity and strategic factor of analytical information systems
- Can describe how business intelligence tools & methods support enterprise planning, management and controlling
- Can derive data warehouse architecture from the business requirements.
- Are able to explain reporting functions

Contenu:

- From strategy to information systems
- Fundamentals of business process management
- Process maps and Process models
- BPMN Modelling basics
- Process automation with standard software
- Enterprise Resource Planning (ERP): Definition, Systems und Architectures
- Planning and Management of operational Resources (Material Management, Distribution, Production) with ERP-Systems
- Planning and Management of strategic Resources (Accounting, Controlling, HR) with ERP-Systems
- Planning and Management of Ressources along value networks (supplier relationship management, Supply Chain Management, Customer

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Relationship Management) with ERP-Systems

- Information systems application in the enterprise: How different management levels make use of it.
- Transactional and analytical information systems: Dependence and interactions
- BI-Systems architecture and components
- Data warehouse processes
- Reporting and Data Mining
- BI Innovation: In-Memory Computing, Cognitive Computing
- Categories of data and their respective data analysis
- Fundamental methods of data mining and Process Mining
- BI Strategy and Governance

Forme de l'évaluation:

Individual Essays and/or analysis to relevant topics in scientific form (70%)
Presentation of Essay Topics in Group Format (30%)

Retake exam : 2 hours during the session

Closed book exams. Neither documents nor connected devices are permitted during the exams.

In case of violation of these rules, the students are in a situation of fraud and the unauthorized items will be removed. The exam could be deemed as failed.

Documentation:

Relevant course material will be available during Semester.

Laudon K.; Laudon J.: Management Information Systems. Managing the Digital Firm., Pearson Education Limited; 14th Revised edition

Pré-requis:

Fundamentals of Management. Strategy and Organisation. Basic understanding of Information Systems in Business

Forme de l'enseignement:

4 hours of class time bi-weekly, involving interactive teaching such as concepts and examples presentation followed by discussions; case discussion ; article discussion ; workshop ; student presentation.