

Course Profile - Department of Information Technologies

Course Number : IT 487	Course Title : Business Process Engineering
Required / Elective : Elective	Pre / Co-requisites : Senior standing and consent of the instructor
Catalog Description: Analysis, design, and implementation issues of business processes in managerial and modeling contexts. Business transformation, business and IT alignment. Methods, tools and techniques for BPE. Modeling languages and standards for BPE. Relating enterprise information architecture to BP.	Textbook / Required Material : No single textbook, but a list of articles to be used as reading materials.
Course Structure / Schedule : (3+0+0) 3 / 6 ECTS	
<p>Extended Description :</p> <p>This course examines analysis, design and implementation issues of Business Process in managerial and modeling contexts. A managerial context provides students with knowledge on business transformation, process reengineering, organizational restructuring, business and IT alignment. Modeling context refers to methods, tools and techniques for business process engineering. Further emphasis will be on aligning business process management with enterprise architecture. Learning mechanism includes directed readings along with several case studies and hands-on modeling exercises.</p>	
Design content : General IT literacy, Information Systems Analysis and Design knowledge, modeling, database and programming knowledge	Computer usage: computer-supported modeling environment and office tools, open source modeling tools
<p>Course Outcomes:</p> <ol style="list-style-type: none"> 1. To use information technology (IT) for redesigning business processes and organizations [3] 2. To address problems and possible solutions in the planning and implementation of business process related change [2, 3, 4] 3. To evaluate a variety of approaches to using IT to improve organizations [2, 3] 4. To use methods, tools and techniques for modeling business processes [2, 4] 5. To evaluate business process modelling languages and standards [2, 4] 6. To relate business process management with enterprise architecture, workflow management systems [3, 4] 7. To gain skills about redesigning business processes using case projects [2, 8] 	

Program Outcomes for Management Information Systems Program:

1. A foundation in mathematics and basic sciences and ability to apply acquired knowledge as they relate to the study and practice of information systems management.
2. An ability to align information technology, organizational and strategic matters.
3. An ability to propose, analyze, design, develop, test and maintain an information technology system including software solutions, security model, computer and network infrastructure, etc. to solve information systems problems.
4. An ability to analyze local and global impact of computing on individuals, organizations and society; and the ability to apply information systems techniques, skills, and tools for regular computing practices as well as to improve effectiveness of current methodologies.
5. An ability to effectively communicate in oral and written media with all kinds of related audiences; and prepare documentation for this purpose as required.
6. An understanding of professional, ethical, legal, and social issues and responsibilities of information systems management profession.
7. A taste and breadth of knowledge across several social topics outside the immediate requirements of the information systems management profession, and the ability to work within heterogeneous teams to accomplish a common goal including people from the information systems area as well as other disciplines.
8. An ability to engage in life-long learning and professional development for personal improvement to follow contemporary information systems issues.

Teaching methods

Pre-readings, lecture and case studies, project

Assessment methods

1 Midterm exam	25%
1 project	40%
1 Final exam	25%

Student workload:

Preparatory reading	50 hrs
Lectures, workshop, discussions	40 hrs
Project	50 hrs
Final Exam	10 hrs
TOTAL	150 hrs

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