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Course Profile - Department of Information Technologies

Course Number : **IT 483**	Course Title : Advanced Server Side Programming – JSP)
Required / Elective : Elective	Pre / Co-requisites : Senior standing and consent of the insructor
Catalog Description: **This course aims to equip students with Server Side Programming capability using Java tools.**	Textbook / Required Material : **No obligatory text book – Any textbook on computer and data communications will be appropriate**
Course Structure / Schedule : **(3+0+0) 3 / 6 ECTS**	
Extended Description : **Students will learn the basics of web, web server (CGI) programming, why Java is a solid choice in this area, the components that Java provides. Students will then will experience the components that Java technology provides such as Servlets, beans, JSP content, tags, custom tags, and JSF. Students need to complete a term project by expressing the requirements, analyzing the details, designing and implementing the model. Students are expected to document the project as required, and present to the class.**	
Design content : **Students will design a web server application as a project.**	Computer usage: **All phases of project development requires extensive computer usage.**

Course Outcomes: [relevant program outcomes in brackets]:

1. Understand basics of web and web server programming [6]
2. Master the important details of creating web applications [4]
3. Master interfacing Web applications with multiuser databases [2]
4. Understand all components that Java provides for server side programing, and use the most appropriate Java component while implementing the term project [2,3]
5. Be familiar with user authentication and authorization techniques, and use them appropriately in the term project [2,3]
6. Create a term project after defining a topic, specifying the reqirements, analyzing, designing the model, implementing, preparing the related documents such as database design document, programmers manual, user manual etc., and presenting the project appropriately [2,3,5,7]

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

Students will learn the theory by pre-readings and attending affectively to the classes. Student will master the details of Java components when implementing the term project.

Assessment methods

Documentation	**20%**
Term Project	**60%**
Presentation	**20%**

Student workload:

Preparatory reading	**18 hrs**
Lectures, workshop, discussions	**42 hrs**
Term Project	**90 hrs**
TOTAL	**150 hrs**

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