

Course Profile - Department of Information Technologies

Course Number : IT 485	Course Title : Mobile Application Development Using Java
Required / Elective : Elective	Pre / Co-requisites : Senior standing and consent of the instructor
Catalog Description: Introduction to wireless technology, wireless devices and wireless application infrastructure; Java technology for use in mobile applications; MIDlets; configurations; profiles; introduction to graphics and creating GUIs, GUI components and developing GUI based applications, developing screen and canvas based applications, games, database applications.	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 mobile devices, mobile applications, 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. 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 mobile application as a project.	Computer usage: All phases of project development requires extensive computer usage.
<p>Course Outcomes: [relevant program outcomes in brackets]:</p> <ol style="list-style-type: none"> 1. Understand basics of mobile devices, and mobile application development [6] 2. Master the important details of creating mobile applications [4] 3. Master interfacing mobile applications with multiuser databases [3] 4. Be familiar with user authentication and authorization techniques, and use them appropriately in the term project [3] 5. Create a term project after defining a topic, specifying the requirements, 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

Small Projects	20%
Term Project	60%
Documentation	10%
Presentation	10%

Student workload:

Preparatory reading	18 hrs
Lectures, workshop, discussions	42 hrs
Term Project	60 hrs
Small Projects	30 hrs
TOTAL	150 hrs

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