Courses Description

College: Prince Alhussein Bin Abdullah The Second For Information Technology

Department: Software Engineering(Swe)

Couse ID: 1003799	**Description:** Thesis

Full Course Description: gg

Couse ID: 31003799	**Description:** th

Full Course Description: kk

Couse ID: 61003799	**Description:** th

Full Course Description: hh

Couse ID: 91003799	**Description:** th

Full Course Description: gg

Couse ID: 121003710   **Description:** Software Testing

Full Course Description: Testing of software throughout its life cycle. Unit and system level testing. Designing of test cases, oracles, and test harness. Black box and white box testing techniques. Measuring test effectiveness. Regressing testing and Integration testing.

Couse ID: 121003714   **Description:** Software Maintenance and Evolution

Full Course Description: The principles of generating maintainable software, Theory and practice of maintaining large scale software, problems in maintaining software systems, building software in view of the maintenance problems, reverse engineering, the principles of software evolution, mainly the evolution of open source projects, program comprehension, software evolution process models

Couse ID: 121003721   **Description:** Mobile Applications Development

Full Course Description: Developing applications for modern smartphone operating systems. Rapid application development techniques , setup of the development environment, real-world testing, and deployment to both the iTunes App Store and Android Marketplace, developing user-friendly and interactive applications that operate across multiple platforms, including mobile devices and stand-alone applications, tools for designing mobile applications, Mobile platforms , mobile browsers, native applications, and best practices in terms of test usability.

Couse ID: 121003723   **Description:** Advanced Software Engineering

Full Course Description: This course introduces the advanced concepts and techniques of software engineering. It will review the fundamentals of software engineering and the process of object-oriented software development. Also, It covers advanced topics related to Rational Unified Process, Extreme Programming, Software Reuse, and Aspect-Oriented Programming.

Couse ID: 121003724   **Description:** Distributed Software Development

Full Course Description: Principles of developing distributed systems. Approaches that use distributed object and component middleware, and service-oriented architectures, characterization of distributed systems, distributed objects and remote method invocation, Design patterns for distributed applications, component-based development, service-oriented architectures, OSGi, and Adaptive middleware.

Couse ID: 121003732   **Description:** Software Design and Architecture

Full Course Description: Architectural design of complex software systems. commonly-used software system structures, techniques for designing and implementing structures, models and formal notations for characterizing and reasoning about architectures, tools for generating specific instances of an architecture, and case studies of actual system architectures. Architectural design methods for Large-scale software systems, quality design attributes, component-level design, design patterns, aspect-oriented software development, and service oriented architecture.

Courses Description

College: Prince Alhussein Bin Abdullah The Second For Information Technology

Department: Software Engineering(Swe)

Couse ID: 121003736	**Description:** Software Project Management

Full Course Description: Skills necessary to lead a project team, understand the relationship of software development to overall product engineering, estimate time and costs, and understand the software process. advanced topics related to life cycle models, requirements elicitation, configuration, to control environments, quality assurance, and leadership, advanced issues of risk analysis, schedule, costs, team organization, resources, and technical approach, Capability Maturity Model and the technology and practices associated with each and a variety of software standards, legal issues involved in liability, warranty, patentability, and copyright.

Couse ID: 121003740	**Description:** Software Quality Engineering

Full Course Description: Software quality fundamentals, software quality management processes, practical consideration related to software quality requirements, management techniques and software quality measurements. Software life cycle processes. Software Quality Fundamentals such as software engineering culture and ethics, the value and costs of quality, models and quality characteristics, and quality improvement. Software Quality Management Processes such as software quality assurance, verification and validation, and reviews and audits. Practical Considerations related to software quality. Requirements, defect characterization, software quality management techniques, and software quality measurement.

Couse ID: 121003751	**Description:** Software Engineering Tools and Methods

Full Course Description: Tools and techniques for software integration, heuristic methods for informal approaches and prototyping methods for software developments approaches, software engineering tools (such as miscellaneous tools issues) and software engineering methods, formal methods dealing with mathematically based approaches for software development

Couse ID: 121003752	**Description:** Advanced Software Process

Full Course Description: Defining and improving the software development process, the concepts of software maturity framework, principles of process improvement and software process assessment. Other topics such as the framework of CMMI and SCAMPI will be introduced

Couse ID: 121003763	**Description:** Requirements Engineering

Full Course Description: Requirements methods, tools, and techniques. Software Requirements Fundamentals. product vs. process, functional vs. non-functional, emergent properties. Requirements Process, process models, process actors, process support and management, and process quality and improvement. Requirements Elicitation. Requirements Analysis, detect and resolve conflicts between requirements, discover the bounds of the software. Requirements Specification. Requirements Validation.

Couse ID: 121003790	**Description:** Comprehensive Exam

Full Course Description: ئر

Couse ID: 121003795	**Description:** Selected Topics in Software Engineering

Full Course Description: This course allows the department to cover one of the recent research topics in the field of software engineering.

Couse ID: 121003798	**Description:** Research Project

Full Course Description: ى

Couse ID: 121003799	**Description:** Thisis

Full Course Description: ٌ{