COMSATS University Islamabad
Department of Computer Science
Course Description Form (CDF)

Course Information	
Course Code: **CSE494**	Course Title: **Software Project Management**
Credit Hours: **3(3,0)**	Lecture Hours/Week: **3**
Lab Hours/Week: **0**	Pre-Requisites: **CSC291: Software Engineering Concepts**

Catalogue Description:

This course covers fundamental concepts of software project management. Topics include: Software Project Management; Managing Project Goals, Time & Costs; Risk Management; Quality Management; HR & Communication Management; Software Project Pricing; Software Development Management; and Development & Management Standards.

Unit wise Major Topics:

Unit	Topic	No. of Teaching Hours
1.	Software Project Management: Overview, Application Development, Managing Project; and Project Integration Management.	9
2.	Managing Project Scope: Time & Costs, Developing Project Charter, Scope Plan, Requirement Plan, WBS, Scheduling & Optimizing Plan, and Cost Estimation.	12
3.	Quality Management; and Communication Management.	6
4.	Risk Management; HR & Stakeholder Management; and Procurements & Outsourcing.	10.5
5.	Software Development Management: Dynamic System Development, Scrum, and Kanban.	7.5
Total Contact Hours		**45**

Mapping of CLOs and SOs

Sr.#	Unit #	Course Learning Outcomes	Blooms Taxonomy Learning Level	SO
CLO-1	1	Summarize fundamental concepts of software project and integration management.	*Understanding*	1
CLO-2	2	Determine the project scope and cost estimation within a time frame for a software project.	*Applying*	2,4
CLO-3	3-4	Explain the concepts of quality, risk, communication and HR management.	*Understanding*	1
CLO-4	5	Select the best software process practices in context of software project management.	*Understanding*	1
CLO-5	1-5	Develop a comprehensive software project plan.	*Creating*	2-5,9

CLO Assessment Mechanism

Assessment Tools	CLO-1	CLO-2	CLO-3	CLO-4	CLO-5

Quizzes	Quiz 1	Quiz 2	Quiz 3	Quiz 4	-
Assignments	-	Assignment 1	Assignment 2	Assignment 3	Assignment 4
Mid Term Exam	Mid Term Exam	Mid Term Exam	Mid Term Exam	-	-
Final Term Exam	Final Term Exam				

Text and Reference Books

Textbooks:

1. A Guide to the Project Management Body of Knowledge, PMBOK® Guide, PMI, 2017.
2. Introduction to Software Project Management, Adolfo Villafiorita, CRC Press, 2014.

Reference Books:

1. Software Extension to the PMBOK® Guide, PMI, 2013.
2. PMI Agile Practice Guide, PMI, 2017.