SARDAR PATEL UNIVERSITY
Programme: BCA
Semester: IV
Syllabus with effect from: June 2019

Paper Code : **US04SBCA26**	
Title of Paper: **Software Project Management**	**Total Credit: 2**

Lectures per week   : 2   **Exam Duration: 2 hrs**
All units carry equal weightage.

Unit Nos.	Description in Detail	Weightage %
1.	**Introduction** – Overview of a Project, Project types and operations, Program, Portfolio and Management – Characteristics and Goals of a Project – Project Execution and Stakeholders – Project Management with its cross functional nature – 4P's for effective Project Management – Principles of Project management – Software Project Life cycle phases	**25%**
2.	**Software Process, Project Metrics and Software Project Planning** – Overview of Measures, Metrics, And Indicators – Metrics in the Process And Project Domains – Software Measurement – Metrics For Software Quality – Project Planning Objectives - Software Scope: Obtaining necessary information and Feasibility - Resources	**25%**
3.	**Software Project Estimation and Risk Management** - What is Software Project Estimation? – Decomposition techniques: Software sizing, Problem based estimation, Process based Estimation – Empirical estimation models: COCOMO model – Concept of Risk, Type of Risks – Risk Identification with Components and drivers – Risk Assessment – Risk Mitigation, Monitoring and Management	**25%**
4.	**Project Scheduling and Tracking** – Introduction to Project Scheduling – Principles guide for Software Project Scheduling – Work Breakdown Structure(WBS) – Selecting Software Engineering Task – Concept of Task network and Scheduling Tool: Timeline Chart (Gantt Chart) – Concept and ways of Tracking the schedule	**25%**

Basic Text & Reference Books:-

1. Roger S. Pressman, "Software Engineering", 2001, McGraw Hill.
2. S.A.Kelkar, "Software Project Management – A concise study", 2nd Ed. PHI learning Pvt. Ltd. 2009
3. Walker Royce, "Software Project Management – A Unified Framework", 2001, Pearson Education.
4. Ian Sommerville, "Software Engineering", 2004, Addison Wesley.
5. Pankaj Jalote "An Integrated Approach to Software Engineering" 2nd Edition.