SOFTWARE PROJECT MANAGEMENT

PROF. RAJIB MALL
PROF. DURGA PRASAD
Computer Science and Engineering
IIT Kharagpur

TYPE OF COURSE : New | Elective | UG/PG
COURSE DURATION : 12 weeks (29 Jul’19 - 18 Oct’19)
EXAM DATE : 16 NOV 2019

PRE-REQUISITES : Basic Programming Course
INTENDED AUDIENCE : CSE, IT

COURSE OUTLINE :
This course describes the key aspects of Software Project. It introduces the strategies required for managing projects from their genesis to completion. The course brings about Software Project Planning, Cost Estimation, scheduling and management tools

ABOUT INSTRUCTOR :
Prof. Rajib Mall is Professor in the Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur, West Bengal. He has more than two decades of teaching experience in the areas of real-time systems, program analysis and testing. He has written five text books and over 150 refereed research papers.

Prof. Durga Prasad Mohapatra is a Professor, in Department of Computer Science and Engineering, National Institute of Technology Rourkela, Odisha. He has more than two decades of teaching experience in the areas of Software Engineering, Discrete Mathematics, Real-Time Systems, and Software Testing. He has written one text book on Discrete Mathematics and more than 100 refereed research papers.

COURSE PLAN :
Week 1: Introduction to Software Project Management
Week 2: Selection of a Project Approach
Week 3: Project Estimation Techniques
Week 4: Project Estimation Techniques (Contd)
Week 5: Project Planning and Project Scheduling
Week 6: Project Planning and Project Scheduling (Contd)
Week 7: Project Organization and Team Structures
Week 8: Risk Management
Week 9: Resource Allocation
Week 10: Project Monitoring and Control, Software Configuration Management
Week 11: Software Quality Management
Week 12: Managing Contracts and Project closeout