M.C.A.(comm.) sem -IV

406:IT Project Management

Chapter No	Name of Topic	No. of lecturer	References Books
1	**Project Management** Introduction Project Management Project Life cycle Qualities of Project Manager Project Organization Planning a s/w project	5	1,2
2	**Project Management Components**. Project Integration Management-Project plan development and execution, change controls, configuration management.	4	1,2
3	**S/w Project Estimation** Project Estimation Different methods of estimation (COCOMO model, Delphi cost estimation etc.) Function point analysis	7	1,2
4	**RISK MANAGEMENT** Risk identification: types of risk, risk checklists. Risk prioritization: assessment of likelihood and impact of risk; qualitative and quantitative methods of assessing risk exposure. Risk management tactics, including risk avoidance, risk transfer, risk reduction, risk mitigation and contingency planning. Cost benefits analysis of planned risk reduction actions, risk reduction leverage. Risk registers.	8	4

5	**Software Quality Management & Testing** Quality Assurance & Standards Quality Planning Quality control Role of testing in Software development Testing Procedure Defect Management	7	4
6	**Role of User in Projects** User role in project management User role in various stages of S/W Development User role in System implementation	5	3
7	**S/W Team Management** Human Resource Management- Organizational planning, staff acquisition. Characteristics of Performance management High performance Directive and collaborative styles Team Structure Team Communication Managing customer expectations Group Behavior	6	3

Reference Books:

1. Information Technology Project Management, 6th Edition Kathy Schwalbe ISBN-13:
   9781111221751 , Cenage Learning
2. Software Metrics: A rigorous and Practical Approach by Norman E. Fenton and Shari

Lawrence Pfleeger, International Thomson Computer Press

3. Software Project Management S.A. Kelkar
4. Software Engineering Roger S. Pressman