SIR PADAMPAT SINGHANIA UNIVERSITY, UDAIPUR

SCHOOL OF ENGINEERING

Dept. Of Computer Science & Engineering

Course Plan

Faculty' s Name: Sumangla Rathore

Course Name: Software Project Management **Code:CS312** **Credit: 3-0-0**

Branch: CSE **Semester:VI**

S/N.	Unit	Topics	No. of Lectures	Books
1	**Introduction to Software Project Management (SPM)**	Definition of a Software Project (SP), SP Vs. other types of projects activities covered by SPM, categorizing SPs, project as a system, management control, requirement specification, information and control in organization.	4	Textbook: Software Project Management (4th Edition), by Bob Hughes and Mike Cotterell, TMH Reference Book: Project Management, Walker Royce, Addison Wesley
2	**Stepwise Project Planning**	Introduction, selecting a project, identifying project scope and objectives, identifying project infrastructure, analyzing project characteristics, identifying project products and activities, estimate efforts for each activity, identifying activity risk, allocate resources, review/ publicize plan.	6	
3	**Project Evaluation & Estimation**	Programme management, managing the allocation of resources within programmes, Cost benefit analysis, cash flow forecasting, cost benefit evaluation techniques, risk	10	

		evaluation. Choosing technologies, choice of process model, structured methods, rapid application development, water fall-, V-process-, spiral- models. Prototyping, delivery. Albrecht function point analysis.		
4	**Activity planning**	Objectives of activity planning, project schedule, projects and activities, sequencing and scheduling activities, network planning model, representation of lagged activities, adding the time dimension, backward and forward pass, identifying critical path, activity float, shortening project , precedence networks.	6	
5	**Resource allocation**	Introduction, the nature of resources, identifying resource requirements, scheduling resources creating critical paths, counting the cost, being specific, publishing the resource schedule, cost schedules, the scheduling sequence.	4	
6	**Monitoring and control**	Introduction, creating the framework, collecting the data, visualizing progress, cost monitoring, earned-value analysis, getting the project back to target.	6	

7	**Software quality**	The place of software quality in project planning, the importance of software quality, defining software quality, practical software quality measures, product versus process quality management.	4	

Total No. of Lectures: 40

Signature of the faculty: Signature of the HOD: