PROGRAM	**Master of Business Administration**
SEMESTER	**3**
COURSE TITLE	**Software Project Management**
COURSE CODE	**04MB0337**
COURSE CREDITS	**03**
COURSE DURATION	**42 Hrs (42 sessions of 60 minutes each)**

COURSE OUTCOMES:

- Understand the major SPM concepts
- Interpreting the effective ways SPM tools and Techniques
- Examining the Software Project Maintenance and Software Quality Managements.
- Explaining SPM testing plans and methods
- Assessing the Software Risk Management strategies

COURSE CONTENTS:

Unit No	Unit / Sub Unit	Sessions
I	**Introduction to Software Project Management:** Concepts, Umbrella Activities under Software Project Management. **Software Project Planning tools and techniques:** Work breakdown Structure, Milestones, Software Sizing, Rayleigh curve etc. Cost Estimation techniques like COCOMO, Function Point Analysis and other Cost Estimation methods. Time Estimation Tools like CPM/PERT, Gantt charts and other methods, COCOMO for time estimation etc. (Use of MS-PROJECT is recommended).	06
II	**Software Project Maintenance:** Types, steps, Resource planning and estimation, Re-engineering the software products, Documentation standards, Version Control and Software Configuration Management.	08
III	**Software Testing:** Techniques, test plans, Introduction to manual testing and Automated testing tools. **User Acceptance Testing:** Implementation Planning, Steps, methods, Documentation etc.,	08
IV	**Software Risk Management:** Strategies of Risk Management, Software Risks, risks Identification, Risk Projection, Risk Refinement, Risk Mitigation, Monitoring & Management.	10
V	**Software Quality Management:** Quality Concepts, SQA, V & V Planning, tools and techniques (reviews, FTR inspections, walkthroughs etc.), Software Quality parameters with their definitions, Introduction to ISO 9000 Quality Standards and CMM.	10

EVALUATION:

The students will be evaluated on a continuous basis and broadly follow the scheme given below:

	Component	Weightage
A	Continuous Evaluation Component (Assignments / Presentations/ Quizzes / Class Participation/ etc.)	20% (C.E.C.)
B	Internal Assessment	30% (IA)
C	End-Semester Examination	50% (External Assessment)

SUGGESTED READINGS:
Text Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition & Year
T1	K.K. Aggarwal and Yogesh Singh	*Software Engineering*	New Age International	2002
T2	Martin L Shooman	*Software Engineering*	Tata McGraw Hill	1983

Reference Books:

Sr. No	Author/s	Name of the Book	Publisher	Edition and Year
R-01	Carlo Ghezzi, Mehdi Jazayeri	*Software Engineering*	PHI	1996
R-02	Roger S. Pressman	*Software Engineering*: A Practioner's Approach	Tata McGraw Hill 4th edition 1999.	4th edition 1999
R-03	Sommerville Ian	Software Engineering,	Pearson Ed	2004