



**DEPARTMENT OF MANAGEMENT STUDIES**  
**NATIONAL INSTITUTE OF TECHNOLOGY**  
**TIRUCHIRAPPALLI - 620 015, TAMIL NADU, INDIA**

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<b>Course Code</b>	<b>:</b>	<b>MB 806</b>
<b>Title of the Course</b>	<b>:</b>	<b>SOFTWARE PROJECT MANAGEMENT</b>
<b>Prerequisites</b>	<b>:</b>	Nil
<b>Trimester</b>		III
<b>Contact Hours, Type of Course</b>	<b>:</b>	30
<b>Course Assessment Methods</b>	<b>:</b>	Continuous Assessment (Flexible curriculum)

**OBJECTIVE:**

*To create an understanding on methodologies, tools, techniques, metrics, quality and risk issues in software project management*

**Unit I SPM concepts**

Definition – components of SPM – challenges and opportunities – tools and techniques – managing human resource and technical resource – costing and pricing of projects – training and development – project management techniques.

**Unit II Software Measurements**

Monitoring & measurement of SW development – cost, size and time metrics – methods and tools for metrics – issues of metrics in multiple projects.

**Unit III Software Quality**

Quality in SW development – quality assurance – quality standards and certifications – the process and issues in obtaining certifications – the benefits and implications for the organization and its customers – change management.

**Unit IV Risk Issues**

The risk issues in SW development and implementation – identification of risks – resolving and avoiding risks – tools and methods for identifying risk management.

**Unit V Offshore Projects**

Multiple projects – off-shore development issues – managing human resources – pricing and payments across countries – remote development and implementation.

**Course outcomes**

At the end of the course student will be able

1. to understand the process, methods, quality, risk involved in Software project management
2. to understand the scenario of operations of software industry with guest lectures
3. to work on cost estimation and supporting tools to manage software projects



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<b>COURSE OUTLINE TEMPLATE</b>			
<b>Course Title</b>	<b>SOFTWARE PROJECT MANAGEMENT</b>		
<b>Course Code</b>	<b>MB 806</b>	<b>No. of Credits</b>	<b>2 (weekly 3 hrs)</b>
<b>Department</b>	Management Studies	<b>Faculty</b>	<b>Dr. P.SRIDEVI</b>
<b>Pre-requisites Course Code</b>	-		
<b>Course Teacher(s) E-mail</b>	<b>E-Mail</b>		<b>psridevi@nitt.edu</b>
<b>Course Type</b>		Core	
	√	<b>Elective - IV Trimester</b>	
		Open Elective	
		Laboratory	

<b>COURSE TEACHING AND LEARNING ACTIVITIES</b>			
<b>Sl.No.</b>	<b>Week</b>	<b>Topic</b>	<b>Mode of Delivery</b>
1.	2 <sup>nd</sup> week of July 2017 <b>Class – 1<sup>st</sup> week (3 Contact Hours)</b>	Definition – components of SPM – challenges and opportunities ---	Lecture - Power Point Presentation
2.	<b>Class- 2<sup>nd</sup> week (3 Contact Hours)</b>	Tools and techniques, project management techniques.	Lecture - Power Point Presentation
3.	<b>Class- 3<sup>rd</sup> week (3 Contact Hours)</b>	Managing human resource and technical resource – costing and pricing of projects – training and development (* Assessment -1)	Lecture - Power Point Presentation
4.	<b>Class- 4<sup>th</sup> week (3Contact Hours)</b>	Monitoring & measurement of SW development – cost, size and time metrics	Lecture - Power Point Presentation
5.	<b>Class- 5<sup>th</sup> week (3 Contact Hours)</b>	Methods and tools for metrics – issues of metrics in multiple projects. (* Assessment- 2)	Lecture - Power Point Presentation
6.	<b>Class- 6<sup>th</sup> week (3 Contact Hours)</b>	Quality in SW development – quality assurance (* Assessment -3)	Group analysis and presentation Demo on system development tool.
7.	<b>7<sup>th</sup> week</b>	<b>Cycle Test for IV Trimester / MBA scheduled</b>	
8.	<b>Saturday &amp; Sunday</b>	Multiple projects – off-shore development issues – managing human resources – pricing and payments across countries – remote development and implementation.	<b>Guest Lecture From Industry (Any weekend of trimester based on expert availability)</b>
9.	<b>Class- 8<sup>th</sup> week (3 Contact Hours)</b>	Quality standards and certifications – the process and issues in obtaining certifications	Lecture - Power Point Presentation

10.	Class – 9 <sup>th</sup> week (3 Contact Hours)	The benefits and implications for the organization and its customers – change management. (* Assessment -4)	Lecture - Power Point Presentation
11.	Class - 10 <sup>th</sup> week (3 Contact Hours)	The risk issues in SW development and implementation – identification of risks –	Lecture - Power Point Presentation
12.	<b>Class – 11<sup>th</sup> week</b> (3 Contact Hours)	Resolving and avoiding risks – tools and methods for identifying risk management. (* Assessment - 5)	Lecture - Power Point Presentation
13.	Class – 12 <sup>th</sup> week (3 Contact Hours)	Multiple projects – off-shore development issues – managing human resources – pricing and payments across countries – remote development and implementation.	Guest Lecture - Industry ** Evaluation out off contact hours if required**
14.	October 2017	<b>Trimester Exam Begins</b> (* Assessment -6)	

#### COURSE ASSESSMENT METHODS

Sl. No.	Mode of Assessment	Week / Date	Remarks	% Weightage
1.	Assessment -1( Lecture understanding from Unit-1 to III) - Case study problem solving	4 <sup>th</sup> week -2017	Class room evaluation (1hr 40 minutes)	20%
2.	Assessment–2(Estimation tools working)	5 <sup>th</sup> week –2017	Class room evaluation (1hr 40 minutes)	20% (Assessment 2 & 3 )
3.	Assessment -3 ( Project scheduling tools operation and work out)	6 <sup>th</sup> week- 2017	Class room evaluation (1hr 40 minutes)	
4.	Assessment -4 (Preparing Software project template and risk assessment)	9 <sup>th</sup> week - 2017	50 minutes	10%
5.	Assessment – 5 (Mock interview of SPM)	11 <sup>th</sup> week-2017	Evaluation will be for 15minutes for each student	20%
6.	Assessment -6 (written assessment)	13 <sup>th</sup> week - 2017	To test subject knowledge on any pattern of questions. Pattern will not be disclosed.	30%

- Note:**
1. Attending all the assessments (Assessment 1 to 6) is MANDATORY for every student.
  2. If any student is not able to attend any assessment due to genuine reason, student is permitted to appear for reassessment. Only one permission granted for each student.
  3. Every student is expected to score minimum 40% (i.e., 40 marks) to pass the course. Otherwise the student would be declared fail and 'F' grade will be awarded.

#### FOR APPROVAL

**Dr.P.SRIDEVI**  
Course Faculty

**DrV.J.Sivakumar**  
Chairman (Class Committee)

**Dr.B.Senthil Arasu**  
HoD