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

Phone : +91-431-2503700 (O) , +91-431-2503711 (Direct), Fax : +91-431-2500133 (O/o the Director), E-Mail : psridevi@nitt.edu

COURSE PLAN – PART I			
Course Title	**SOFTWARE PROJECT MANAGEMENT**		
Course Code	MB 806	**No. of Credits**	2
Course Code of Pre-requisite subject(s)	NIL		
Session	July '22 – Oct '22	**Section**	
Name of Faculty	**Dr. P.Sridevi**	**Department**	MBA
Email	**psridevi@nitt.edu**	**Telephone No.**	**041-2503711**
Name of Course Coordinator(s) (if, applicable)	NIL		
Course Type	☐ Core course	☒ Elective course	

SYLLABUS

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 OBJECTIVES

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

	COURSE OUTCOMES (CO)	
	Course Outcomes	**Aligned Programme Outcomes (PO)**
1.	To understand the process, methods and Measurements involved in Software project management	**1, 3**
2.	To understand the scenario of software industry in software development process	**1, 2, 4**
3.	To provide hands-on experience on s/w project planning, Scheduling, progress assessment and cost estimation supporting tools to manage software projects (MS-Project , MTA-PROIT, COCOMO, UX and so on)	**3, 4, 5, 6,**

	COURSE TEACHING AND LEARNING ACTIVITIES		
Sl.No.	**Week**	**Topic**	**Mode of Delivery**
1.	3rd week of July 2022 **Class – 1st week** (3 Contact Hours)	Definition – components of SPM – challenges and opportunities –––	Lecture - Power Point Presentation
2.	**Class- 2nd week** (3 Contact Hours)	Tools and techniques, project management techniques.	Lecture - Power Point Presentation
3.	**Class- 3rd week** (3 Contact Hours)	Managing human resource and technical resource – costing and pricing of projects – training and development	Lecture - Power Point Presentation
4.	**Class- 4th week** (3Contact Hours)	Monitoring & measurement of SW development – cost, size and time metrics **(* Assessment -1)**	Lecture - Power Point Presentation
5.	**Class- 5th week** (3 Contact Hours)	Methods and tools for metrics – issues of metrics in multiple projects. **(* Assessment- 2)**	Lecture - Power Point Presentation
6.	**Class- 6th week** (3 Contact Hours)	Quality in SW development – quality assurance **(* Assessment -3)**	Group analysis and presentation Demo on system development tool.
7.	**7th week**	**Cycle Test for IV Trimester / MBA scheduled**	
8.	**Saturday & Sunday**	**Industry oriented seesion**	**Guest Lecture From Industry (Any weekend of trimester based on expert availability)**
9.	Class- 8th week (3 Contact Hours)	Quality standards and certifications – the process and issues in obtaining certifications	Lecture - Power Point Presentation
10.	Class – 9th week (3 Contact Hours)	The benefits and implications for the organization and its customers – change management. **(* Assessment -4 deliberation)**	Lecture - Power Point Presentation
11.	Class - 10th week (3 Contact Hours)	The risk issues in SW development and implementation – identification of risks –	Lecture - Power Point Presentation

12.	**Class – 11th week** **(3 Contact Hours)**	Resolving and avoiding risks – tools and methods for identifying risk management.	Lecture - Power Point Presentation **Role Play on SPM Concept**
13.	Class – 12th week **(3 Contact Hours)**	Multiple projects – off-shore development issues – managing human resources – pricing and payments across countries – remote development and implementation.	Lecture - Power Point Presentation ** Evaluation out off contact hours if required**
14.	October 2022	**Trimester Exam Begins** (* Assessment -5)	

COURSE ASSESSMENT METHODS				
Sl. No.	**Mode of Assessment**	**Week / Date**	**Remarks**	**% Weightage**
1.	Assessment–1(Project planning for an application development)	4th week -2022	Class room evaluation – Individual assessment	15%
2.	Assessment -2 (Classroom activity with tools)	5th week –2022	Classroom assessment	10%
3.	Assessment -3(Case presentation)	6th week - 2022	Classroom assessment	10%
4.	Assessment -4 (Individual Assignment)	12th week - 2022	Report submission	15%
5.	Assessment -5 (written assessment)	13th week - 2022	End Trimester 180 minutes	50%

Note:
1. Attending all the assessments (Assessment 1 to 5) is MANDATORY for every student.
2. Every student is expected to score minimum 40% to pass the course. Otherwise the student would be declared fail and 'F' grade will be awarded.

COURSE EXIT SURVEY

- Feedbacks are collected before final examination through MIS or any other standard format followed by the institute
- Students, through their Class Representatives, may give their feedback at any time to the course faculty which will be duly addressed.

The students may also give their feedback during Class Committee Meeting.

ATTENDANCE:
- Minimum 75% is mandatory to write the trimester examination. Students having attendance 65% to 74% are eligible for the end semester exam only after attending the extra classes and submitting assignments. Students have to redo the course, if they have less than 65% of attendance.
- Medical Certificate / On Duty Certificate should be submitted immediately after rejoining.

COMPENSATION ASSESSMENT:

- Only one compensation assessment will be given for Assessments for the students those who are absent for any genuine reason for classroom assessment.
- The prior permission and required document must be submitted for absence.
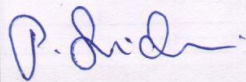
ACADEMIC HONESTY & PLAGIARISM:
- Avoid usage of electronic devices at classes, test and exam.

- The students are expected to come out with their original solution for the problems given in the assignment. If found to copy, marks will be reduced.
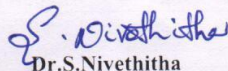- Need to maintain honesty & discipline in class room and exam hall

ADDITIONAL INFORMATION

- The students can get their doubts clarified at any time with their faculty member with prior appointment.
- Guest lecture date will be intimated based on expert availability
- Submission of all assessment should be on the date informed. No late submission is allowed.

FOR APPROVAL

Dr. P.SRIDEVI
Course Faculty

Dr.S.Nivethitha
Chairman (Class Committee)

Dr.G.Muruganantham
HoD