DEPARTMENT OF MANAGEMENT STUDIES
NATIONAL INSTITUTE OF TECHNOLOGY
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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 2021 - Oct 2021	**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 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, Measurements, quality, risk involved in Software project management	1, 3
2. To understand the scenario of operations of software industry in software development	1, 2, 4
3. To work on s/w project planning, Scheduling, progress assessment and cost estimation using supporting tools to manage software projects (MS-Project , MTA-PROIT, COCOMO and so)	3, 4, 5, 6,

COURSE TEACHING AND LEARNING ACTIVITIES			
Sl.No.	Week	Topic	Mode of Delivery (online – MS Teams)
1.	4th week of July 2021 **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. (* Assessment -1)	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 (* Assessment -2)	Lecture - Power Point Presentation
4.	**Class- 4th week** **(3Contact Hours)**	Monitoring & measurement of SW development – cost, size and time metrics	Lecture - Power Point Presentation
5.	**Class- 5th week** **(3 Contact Hours)**	Methods and tools for metrics – issues of metrics in multiple projects. (* Assessment- 3)	Lecture - Power Point Presentation
6.	**Class- 6th week** **(3 Contact Hours)**	Quality standards and certifications – the process and issues in obtaining certifications	Lecture - Power Point Presentation
7.	Class- 7th week **(3 Contact Hours)**	Quality in SW development – quality assurance (* Assessment -4)	
8.	**Saturday & Sunday**	GL on recent trends or any related topic of the course / workshop on software project management tools	**Guest Lecture From Industry (Any weekend of trimester based on expert availability)**
9.	Class – 8th week **(3 Contact Hours)**	The benefits and implications for the organization and its customers – change management.	Lecture - Power Point Presentation
10.	Class - 9th week **(3 Contact Hours)**	The risk issues in SW development and implementation – identification of risks	Lecture - Power Point Presentation
11.	**Class – 10th week** **(3 Contact Hours)**	Resolving and avoiding risks – tools and methods for identifying risk management.	Lecture - Power Point Presentation
12.	Class – 11th 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**

13.	Class – 12th week October 2021	**Trimester Exam Begins (* Assessment -5)**		

COURSE ASSESSMENT METHODS

Sl. No.	Mode of Assessment	Week / Date	Remarks	% Weightage
1.	Assessment -1 (Class Participation)	Through out the session- 2021; from 2nd week of course	Class room evaluation	10%
2.	Assessment -2 (Activity using tools)	3rd week -2021	Class room evaluation	25%
3.	Assessment–3 (Assignment)	5th week –2021	Submission before exam	20%
4.	Assessment -4 (Case Presentation)	7 th week- 2021	Class room evaluation	15%
5.	Assessment -5 (End exam)	12th week - 2021	Theory writing and tool working	30%

** All lectures to be delivered through online mode using MS-Teams with the aid of digital writing pad

Note:
1. Attending all the assessments (Assessment 1 to 5) is MANDATORY for every student.
2. Every student is expected to score minimum 30% in end exam. 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:
- Be honest in attending online class sessions with full commitment
- The students are expected to work the given assignment by self. If found to copy from internet/other students, marks will be reduced.
- Need to maintain honesty & discipline in class and exam realizing the complexity of academic operations

ADDITIONAL INFORMATION

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

FOR APPROVAL

Dr. P.SRIDEVI
Course Faculty

Dr. G.Muruganantham
Chairman (Class Committee)

Dr.G. Muruganantham
HoD