K L Deemed to be University
Department of Computer Science and Information Technology -- KLVZA
Course Handout
2023-2024, Even Sem

Course Title	:SOFTWARE PROJECT MANAGEMENT
Course Code	:21CS3257R
L-T-P-S Structure	: 2-0-2-0
Pre-requisite	:
Credits	: 3
Course Coordinator	:Vignesh T
Team of Instructors	:
Teaching Associates	:

Syllabus : Project Management context, Project Integration Management, Requirements Specification &Management, Scope Management, Time Management, Cost Management, Quality Management,Configuration Management, Human Resource Management, Communications Management, Projectdocumentation, Initiating, planning, executing & controlling projects.

Text Books :1. Schwalbe, K. (2012) Information Technology Project Management, 7th edition, ThomsonLearning. 2. Robert K. Wysocki, "Effective Software Project Management", John Wiley, 2006. 3. BobHughes and mike Cottrell "Software Project Management", McGraw-Hill Education, 2006. 4. Richard H.Thayer "Software Engineering Project Management", 2/e, Wiley-IEEE Computer Society Press, 2001.

Reference Books :1. PMI, (2002) Project Management Body of Knowledge (The PMBOK Guide), ProjectManagement Institute. (ISBN: 1880410257) 2. W Heldman & B Heldman, (2002) IT Project+ Study Guide,Sybex. (ISBN: 0782140688) 3. Kiern Conway, "Software Project Management from Concept to Deploy",Wiley, 2000. 4. Bob Hughes, Mike Cotterell, " Software Project Management", McGraw-Hill HigherEducation, 2009. 5. Walker Royce, "Software Project Management A Unified Frame Work", 1st Edition,Pearson, 1998.

Web Links :1. https://alison.com/topic/learn/66913/learning-outcomes

MOOCS :1. https://www.coursera.org/learn/it-project-management 2. https://www.coursera.org/learn/uva-darden-project-management

Course Rationale : The aim of this course is to prepare students for undertaking large software project. Itintroduces the students to the high-level strategies required for managing projects from their genesis tocompletion. Every student should be able to perform a case study. They will understand the principles ofSoftware Project Management, concepts of Project Management context, Project Integration Management,Requirements Specification & Management, Scope Management, Time Management, Cost Management,Quality Management, Configuration Management, Human Resource Management, CommunicationsManagement, Project documentation, Initiating, planning, executing & controlling projects.

Course Objectives : This course is aimed to introduce the primary concepts of project management relatedto manage software development projects. Usage of software techniques can produce high quality ofsoftware. Software Project Management helps us to select and initiate individual projects; project planningactivities that accurately forecast project costs, timelines and quality implement processes for successfulresource, communication and risk and change management. It is to provide a framework that enables themanager to make reasonable estimated of resources, cost, and schedule.

COURSE OUTCOMES (COs):

CO NO	Course Outcome (CO)	PO/PSO	Blooms Taxonomy Level (BTL)
CO1	Understand the growing need for better project management, especially for information technology projects.	PSO1,PO1	2
CO2	Illustrate the various rules and guidelines that involved to improve the time, Cost, Quality, management aspects in software project management.	PO1,PO11,PSO1	2
CO3	Apply the guidelines that are involved to improve the configuration, Human Resource time, Communications management aspects in software project management.	PSO1,PO1,PO8	3

CO4	Build the techniques that are involved in the Phases of software project management such as Initiating, planning, executing & controlling projects .	PSO1,PO1,PO9		3
CO5	Apply and Analyze the various estimation levels of cost and effort	PSO1,PO1,PO3		4

COURSE OUTCOME INDICATORS (COIs)::

Outcome No.	Highest BTL	COI-1	COI-2	COI-3	COI-4
CO1	2	**Btl-1** Understand the growing need for better project management, especially for information technology projects.	**Btl-2** Understand project phases and project life cycle, project integration management.		
CO2	2	**Btl-1** Classify the methods for collecting and documenting requirements to meet stakeholder needs and expectations	**Btl-2** Explain the processes of determining a budget and preparing a cost estimate for an information technology(IT) project.		
CO3	3	**Btl-1** Remember why Configuration Management is crucial importance in medium to large-scale software development projects	**Btl-2** Understand project human resource management and understand its processes	**Btl-3** Utilize the elements of project communication planning and how to create a Communication management plan.	
CO4	3	**Btl-1** Outline the requirement of project document.	**Btl-2** Explain the basic disciplines of project management, such as resource and time planning, controls, communication mechanisms, reviews and other project management tools.	**Btl-3** Identify several processes and outputs of project execution and controlling	
CO5	4	**Btl-1** conduct risk assessments, create risk matrices, and implement risk response plans to minimize the impact of uncertainties on project timelines, budget, and quality	**Btl-2** principles of software quality assurance and testing, including creating test plans, executing test cases, and implementing continuous integration.	**Btl-3** Understand and apply agile project management principles, with a focus on Scrum practices, to enhance adaptability and responsiveness to changing project requirements.	**Btl-4** Able to develop Software Project Management Project

PROGRAM OUTCOMES & PROGRAM SPECIFIC OUTCOMES (POs/PSOs)

Po No.	Program Outcome

PO1	Engineering Knowledge:Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem Analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences
PO3	Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations
PO4	Conduct Investigations of Complex Problems:Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions for complex problems that cannot be solved by straightforward application of knowledge, theories and techniques applicable to the engineering discipline.
PO5	Modern Tool Usage:Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
PO6	The Engineer and Society:Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and Sustainability:Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
PO9	Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication:Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
PO11	Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.
PSO1	An ability to Identify, Design, and Analyse complex computer systems, Implement and Interpret the results from those systems.
PSO2	An ability to select and apply current techniques, skills, and tools necessary for computing practice and integrate IT-based solutions into the user environment effectively

Lecture Course DELIVERY Plan:

Sess.No.	CO	COI	Topic	Book No[CH No][Page No]	Teaching-Learning Methods	EvaluationComponents
1	CO1	COI-1	Explanation of course handout, Introduction	NIL	PPT,Talk	ALM,End Semester Exam,Home Assignment,SEM-EXAM1
2	CO1	COI-1	Introduction to ProjectManagement,Introduction, What is aproject?, What isProject Management?,Program and Project Portfolio Management	BOOK[1],CH 1, PageNo. 1- 20Web ref:1	PPT,Talk	End Semester Exam,HA,SEM-EXAM1
3	CO1	COI-1	The Role of the Project Manager, The Project Management Profession	BOOK [1],CH 1, PageNo. 21-33	PPT,Talk	ALM,End Semester Exam,SEM-EXAM1
4	CO1	COI-1	Project Management context, A SystemsView of Project Management, Understanding	BOOK [1],CH 2, PageNo. 43	PPT,Talk	ALM,End Semester Exam,SEM-EXAM1

Sess.No.	CO	COI	Topic	Book No[CH No][Page No]	Teaching-Learning Methods	EvaluationComponents
			Organizations,Stakeholder Management	– 46		
5	CO1	COI-2	Project Phases and the Project Life Cycle, TheContext of InformationTechnology Projects, Recent Trends Affecting Information Technology Project Management	BOOK [1], CH 2, Page No. 56 - 71, Web ref: 1	PPT,Talk	End Semester Exam,SEM-EXAM1
6	CO1	COI-2	Recent Trends Affecting Information Technology Project Management	BOOK [1],CH 4, Page No. 139 -168	Chalk,Talk	End Semester Exam,SEM-EXAM1
7	CO2	COI-1	Monitoring and Controlling Project Work, Performing Integrated Change Control	Web resources	PPT,Talk	ALM,End Semester Exam,Home Assignment,SEM-EXAM1
8	CO2	COI-1	Closing Projects or Phases, Using Software to Assist in Project Integration	BOOK [1],CH 5, Page No. 187 -214 Web Ref:	PPT,Talk	End Semester Exam,HA,SEM-EXAM1
9	CO2	COI-1	Scope Management, collecting Requirements, Defining Scope, Creating the Work Breakdown Structure, Validating Scope, Controlling Scope, Using Software to Assist in Project Scope Management	BOOK [1],CH 5, PageNo. 187 -214 WebRef:	PPT,Talk	Continuous Evaluation - Lab Exercise,End Semester Exam,SEM-EXAM1
10	CO2	COI-1	Time Management, The Importance of Project Schedules, Planning Schedule Management, Defining Activities	BOOK [1],CH 6, Page No. 225 -229 Web Ref: 1	PPT,Talk	End Semester Exam,Lab End Semester Exam,Lab In Semester Exam,SEM-EXAM1
11	CO2	COI-1	Sequencing Activities, Estimating Activity Resources, Estimating Activity Duration, Developing the Schedule	BOOK [1],CH 6, Page No. 232 -251 Web Ref: 1	PPT,Talk	End Semester Exam,SEM-EXAM1
12	CO2	COI-2	Controlling the Schedule, Using Software to Assist in Project Time Management	BOOK [1],CH 6, Page No. 232 -251 Web Ref: 1	PPT,Talk	ALM,End Semester Exam,SEM-EXAM1
13	CO2	COI-2	Cost Management, The Importance of Project Cost Management, Basic Principles of Cost Management, Planning Cost Management	BOOK [1],CH 7, PageNo. 271 -279	PPT,Talk	Continuous Evaluation - Lab Exercise,End Semester Exam,SEM-EXAM1
14	CO2	COI-2	Estimating Costs, Determining the Budget, Controlling Costs, Using Project Management Software to Assist in Project Cost	BOOK [1],CH 7, PageNo. 280 -299	PPT,Talk	End Semester Exam,SEM-EXAM1

Sess.No.	CO	COI	Topic	Book No[CH No][Page No]	Teaching-Learning Methods	EvaluationComponents
			Management			
15	CO2	COI-2	Quality Management, The Importance of Project Quality Management, What Is Project Quality Management	BOOK [1],CH 8, PageNo. 311 -314	PPT,Talk	End Semester Exam,SEM-EXAM1
16	CO2	COI-2	Configuration management, Administering Software Configuration Management, Configuration Management Activities	Web resources	PPT,Talk	Continuous Evaluation - Lab Exercise,End Semester Exam,SEM-EXAM1
17	CO3	COI-1	Configuration Management Roles	Web Resources	PPT,Talk	ALM,End Semester Exam,Home Assignment,SEM-EXAM2
18	CO3	COI-1	Human Resource Management, The Importance of Human Resource Management, What Is Project Human Resource Management?, Keys to Managing People, Developing the Human Resource Plan	BOOK [1],CH 9, PageNo. 359 -377	PPT,Talk	End Semester Exam,HA,SEM-EXAM2
19	CO3	COI-2	Acquiring the Project Team, Developing the Project Team	BOOK [1],CH 9, Page No. 378 -390	PPT,Talk	ALM,End Semester Exam,Lab End Semester Exam,Lab In Semester Exam,SEM-EXAM2
20	CO3	COI-2	Managing the Project Team, Using Software to Assist in Human Resource Management	BOOK [1],CH 10,Page No.405 - 408	PPT,Talk	End Semester Exam,HA,SEM-EXAM2
21	CO4	COI-1	Project documentation, Why and When is a project document required?, Is it necessary?, Steps in developing a project document	Web resources	PPT,Talk	ALM,End Semester Exam,Home Assignment,SEM-EXAM2
22	CO4	COI-1	Initiating, Project Management Processes (Initiation)	Web resources	PPT,Talk	End Semester Exam,Lab End Semester Exam,Lab In Semester Exam,SEM-EXAM2
23	CO4	COI-2	Project Charter and Project Management Plan Terminology, Two Processes in Project Initiation	Web resource	Chalk,Talk	ALM,End Semester Exam,SEM-EXAM2
24	CO4	COI-2	Effort estimation, COCOMO, project scheduling and staffing	Web resources	PPT,Talk	ALM,End Semester Exam,HA,SEM-EXAM2
25	CO4	COI-3	Executing and controlling projects, baseline, monitoring systems, important concepts during execution, change control process, cost control, Earned value analysis	Web resource	PPT,Talk	End Semester Exam,SEM-EXAM2

Sess.No.	CO	COI	Topic	Book No[CH No][Page No]	Teaching-Learning Methods	EvaluationComponents
26	CO4	COI-3	Defect injection and removal, risk management and risk assessment, risk prioritization and risk control, project tracking	WEb resource	PPT,Talk	Continuous Evaluation - Lab Exercise,End Semester Exam,SEM-EXAM2

Lecture Session wise Teaching – Learning Plan

SESSION NUMBER : 1

Session Outcome: 1 To understand the Course Handout

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Introduction to Software Project Management	2	PPT	--- NOT APPLICABLE ---
20	Application of Software Project Management	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 2

Session Outcome: 1 To understand Program and project Portfolio Management

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Introduction to ProjectManagement,Introduction, What is aproject?	2	PPT	--- NOT APPLICABLE ---
20	What isProject Management?,Program and Project Portfolio Management	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 3

Session Outcome: 1 To understand The Role of the Project Manager

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	The Role of the Project Manager	2	Talk	--- NOT APPLICABLE ---

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
20	The Project Management Profession	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 4

Session Outcome: 1 To understand Stakeholder Management

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Project Management context, A SystemsView of Project Management	2	Talk	--- NOT APPLICABLE ---
20	Understanding Organizations,Stakeholder Management	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 5

Session Outcome: 1 To understand Project Phases and the project Life Cycle

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Project Phases and the project Life Cycle, The Context of Information Technology Projects	2	PPT	--- NOT APPLICABLE ---
20	Recent Trends Affecting Information Technology Project Management	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 6

Session Outcome: 1 To understand Recent Trends Affecting Information Technology Project Management

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Recent Trends Affecting Information Technology Project Management	2	PPT	--- NOT APPLICABLE ---
20	Recent Trends Affecting Information Technology Project Management	2	PPT	--- NOT APPLICABLE ---

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 7

Session Outcome: 1 To understand Monitoring and Controlling Project Work

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Monitoring and Controlling Project Work	2	PPT	--- NOT APPLICABLE ---
20	Performing Integrated Change Control	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 8

Session Outcome: 1 To understand Closing Projects or Phases

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Closing Projects or Phases	2	PPT	--- NOT APPLICABLE ---
20	Using Software to Assist in Project Integration	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 9

Session Outcome: 1 To understand Scope Management

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Scope Management, collecting Requirements, Defining Scope, Creating the Work Breakdown Structure	2	PPT	--- NOT APPLICABLE ---
20	Validating Scope, Controlling Scope, Using Software to Assist in Project Scope Management	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 10

Session Outcome: 1 To understand Time Management

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Chalk	--- NOT APPLICABLE ---
20	Time Management, The Importance of Project Schedules	2	Talk	--- NOT APPLICABLE ---
20	Planning Schedule Management, Defining Activities	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 11

Session Outcome: 1 To understand Sequencing Activities

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Sequencing Activities, Estimating Activity Resources	2	PPT	--- NOT APPLICABLE ---
20	Estimating Activity Duration, Developing the Schedule	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 12

Session Outcome: 1 To understand Controlling the Schedule

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Controlling the Schedule	2	PPT	--- NOT APPLICABLE ---
20	Using Software to Assist in Project Time Management	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 13

Session Outcome: 1 To understand Cost Management

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Cost Management, The Importance of Project Cost Management	2	PPT	--- NOT APPLICABLE ---
20	Basic Principles of Cost Management, Planning Cost Management	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 14

Session Outcome: 1 To understand Estimating Costs

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Estimating Costs, Determining the Budget, Controlling Costs	2	PPT	--- NOT APPLICABLE ---
20	Using Project Management Software to Assist in Project Cost Management	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 15

Session Outcome: 1 To understand Quality Management

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Quality Management, The Importance of Project Quality Management	2	PPT	--- NOT APPLICABLE ---
20	What Is Project Quality Management	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 16

Session Outcome: 1 To understand Configuration management

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
20	Configuration management, Administering Software Configuration Management,	2	PPT	--- NOT APPLICABLE ---
25	Configuration Management Activities	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 17

Session Outcome: 1 To understand Configuration Management Roles

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Configuration Management Roles	2	PPT	--- NOT APPLICABLE ---
20	Configuration Management Roles	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 18

Session Outcome: 1 To understand Human Resource Management

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	PPT	--- NOT APPLICABLE ---
20	Human Resource Management, The Importance of Human Resource Management	2	Talk	--- NOT APPLICABLE ---
20	What Is Project Human Resource Management?, Keys to Managing People, Developing the Human Resource Plan	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 19

Session Outcome: 1 To understand Acquiring the Project Team

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Acquiring the Project Team	2	PPT	--- NOT APPLICABLE ---

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
20	Developing the Project Team	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 20

Session Outcome: 1 To understand Managing the Project Team

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Managing the Project Team	2	PPT	--- NOT APPLICABLE ---
20	Using Software to Assist in Human Resource Management	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 21

Session Outcome: 1 To understand Project documentation

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Project documentation, Why and When is a project document required?	2	PPT	--- NOT APPLICABLE ---
20	Steps in developing a project document	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 22

Session Outcome: 1 To understand Project Management Processes (Initiation)

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Initiating	2	PPT	--- NOT APPLICABLE ---
20	Project Management Processes (Initiation)	2	PPT	--- NOT APPLICABLE ---

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Discussion	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 23

Session Outcome: 1 To understand Project Charter and Project Management Plan Terminology

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Project Charter and Project Management Plan Terminology	2	PPT	--- NOT APPLICABLE ---
20	Two Processes in Project Initiation	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 24

Session Outcome: 1 To understand Effort estimation

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Effort estimation, COCOMO	2	PPT	--- NOT APPLICABLE ---
20	project scheduling and staffing	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 25

Session Outcome: 1 To understand Executing and controlling projects

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Executing and controlling projects, baseline, monitoring systems	2	PPT	--- NOT APPLICABLE ---
20	important concepts during execution, change control process, cost control, Earned value analysis	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 26

Session Outcome: 1 To understand Defect injection and removal

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
5	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Defect injection and removal, risk management and risk assessment	2	PPT	--- NOT APPLICABLE ---
20	risk prioritization and risk control, project tracking	2	PPT	--- NOT APPLICABLE ---
5	Discussion	2	PPT	--- NOT APPLICABLE ---

Tutorial Course DELIVERY Plan: NO Delivery Plan Exists

Tutorial Session wise Teaching – Learning Plan

No Session Plans Exists

Practical Course DELIVERY Plan:

Tutorial Session no	Topics	CO-Mapping
1	Utilize GIT BASH and deploy the files to GIT HUB	CO5
2	Apply PULL and PUSH mechanism using GIT	CO5
3	Make use of GIT and deploy the files to Bitbucket	CO5
4	Identify the latest PUSH changes in the bit bucket using DIFF	CO5
5	Build User stories for an individual personas for Hospital Management System	CO5
6	Build User stories for an individual personas for Library Management System	CO5
7	Build product backlogs for an application in JIRA	CO5
8	Develop a sprint plan review on any of the above systems (JIRA)	CO5
9	Build a dashboard consists of (To do, doing, done) process using Kanban boards	CO5
10	Build User stories for an individual personas for SCRUM Roles (Scrum Master, Product Owner, Scrum Team) (Documentation)	CO5
11	Develop an automated deadline for the process to be done in an organization adopted agile methodology	CO5
12	Build performance charts using Atlasian Boards (JIRA or any available SCRUM boards)	CO5

Practical Session wise Teaching – Learning Plan

SESSION NUMBER : 1

Session Outcome: 1 To understand Utilize GIT BASH and deploy the files to GIT HUB

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tool	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 2

Session Outcome: 1 To understand Apply PULL and PUSH mechanism using GIT

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tool	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 3

Session Outcome: 1 To understand Make use of GIT and deploy the files to Bitbucket

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tool	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 4

Session Outcome: 1 To understand Identify the latest PUSH changes in the bit bucket using DIFF

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tool	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 5

Session Outcome: 1 To understand Build User stories for an individual personas for Hospital Management System

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tool	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 6

Session Outcome: 1 To understand Build User stories for an individual personas for Library Management System

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tool	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 7

Session Outcome: 1 To understand Build product backlogs for an application in JIRA

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tool	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 8

Session Outcome: 1 To understand Develop a sprint plan review on any of the above systems (JIRA)

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tool	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 9

Session Outcome: 1 To understand Build a dashboard consists of (To do, doing, done) process using Kanban boards

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tool	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	1	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 10

Session Outcome: 1 To understand Build User stories for an individual personas for SCRUM Roles (Scrum Master, Product Owner, Scrum Team) (Documentation)

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---

45	Experiment using Tools	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 11

Session Outcome: 1 To understand Develop an automated deadline for the process to be done in an organization adopted agile methodology

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tools	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 12

Session Outcome: 1 To understandBuild performance charts using Atlasian Boards (JIRA or any available SCRUM boards)

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Attendance	2	Talk	--- NOT APPLICABLE ---
20	Experiment Explanation	2	PPT	--- NOT APPLICABLE ---
45	Experiment using Tools	2	PPT	--- NOT APPLICABLE ---
25	Result Discussion	2	Talk	--- NOT APPLICABLE ---

Skilling Course DELIVERY Plan: NO Delivery Plan Exists

Skilling Session wise Teaching – Learning Plan

No Session Plans Exists

WEEKLY HOMEWORK ASSIGNMENTS/ PROBLEM SETS/OPEN ENDEDED PROBLEM-SOLVING EXERCISES etc:

Week	Assignment Type	Assignment No	Topic	Details	co
12	Weekly Homework Assignments	4	Quality Management System	Implementing ISO 9000 Quality Management System for a software firm	CO4

3	Weekly Homework Assignments	1	Software Metrics	A Study on Software Metrics and Phase based Defect Removal Pattern Technique for Project Management	CO1
7	Weekly Homework Assignments	2	3 Sigmama Principle	Utilization of Statistical Process Control in Defined Level Software Companies to Manage Processes Using Control Charts with Three Sigma	CO2
9	Weekly Homework Assignments	3	Process Measurement System	How To Create A Process Measurement System for a particular software firm	CO3

COURSE TIME TABLE:

Day	Component / Hour	1	2	3	4	5	6	7	8	9
Mon	Theory	---	---	---	---	V-S31,V-S32	V-S31,V-S32	---	---	---
	Tutorial	---	---	---	---	--	--	---	---	---
	Lab	---	---	---	---	V-S33,V-S33,V-S33,V-S34,V-S34,V-S34	V-S33,V-S33,V-S33,V-S34,V-S34,V-S34	---	---	---
	Skilling	---	---	---	---	--	--	---	---	---
Tue	Theory	---	---	V-S33,V-S34	V-S33,V-S34	---	---	---	---	---
	Tutorial	---	---	--	--	---	---	---	---	---
	Lab	---	---	V-S31,V-S31,V-S31,V-S32,V-S32,V-S32	V-S31,V-S31,V-S31,V-S32,V-S32,V-S32	---	---	---	---	---
	Skilling	---	---	--	--	---	---	---	---	---
Wed	Theory	--	--	--	--	--	--	--	--	--
	Tutorial	--	--	--	--	--	--	--	--	--
	Lab	--	--	--	--	--	--	--	--	--
	Skilling	--	--	--	--	--	--	--	--	--
Thu	Theory	--	--	--	--	--	--	--	--	--
	Tutorial	--	--	--	--	--	--	--	--	--
	Lab	--	--	--	--	--	--	--	--	--
	Skilling	--	--	--	--	--	--	--	--	--
Fri	Theory	--	--	--	--	--	--	--	--	--
	Tutorial	--	--	--	--	--	--	--	--	--
	Lab	--	--	--	--	--	--	--	--	--
	Skilling	--	--	--	--	--	--	--	--	--
Sat	Theory	--	--	--	--	--	--	--	--	--
	Tutorial	--	--	--	--	--	--	--	--	--
	Lab	--	--	--	--	--	--	--	--	--
	Skilling	--	--	--	--	--	--	--	--	--
Sun	Theory	--	--	--	--	--	--	--	--	--
	Tutorial	--	--	--	--	--	--	--	--	--
	Lab	--	--	--	--	--	--	--	--	--
	Skilling	--	--	--	--	--	--	--	--	--

REMEDIAL CLASSES:

Supplement course handout, which may perhaps include special lectures and discussions that would be planned, and schedule notified according

SELF-LEARNING:

Assignments to promote self-learning, survey of contents from multiple sources.

S.no	Topics	CO	ALM	References/MOOCS

DELIVERY DETAILS OF CONTENT BEYOND SYLLABUS:

Content beyond syllabus covered (if any) should be delivered to all students that would be planned, and schedule notified accordingly.

S.no	Advanced Topics, Additional Reading, Research papers and any	CO	ALM	References/MOOCS

EVALUATION PLAN:

Evaluation Type	Evaluation Component	Weightage/Marks		Assessment Dates	Duration (Hours)	CO1	CO2	CO3	CO4	CO5
End Semester Summative Evaluation Total= 40 %	End Semester Exam	Weightage	24		180	6	6	6	6	
		Max Marks	100			25	25	25	25	
	Lab End Semester Exam	Weightage	16		120					16
		Max Marks	50							50
In Semester Summative Evaluation Total= 38 %	Semester in Exam-I	Weightage	15		90	7.5	7.5			
		Max Marks	50			25	25			
	Semester in Exam-II	Weightage	15		90			7.5	7.5	
		Max Marks	50					25	25	
	Lab In Semester Exam	Weightage	8		120					8
		Max Marks	50							50
In Semester Formative Evaluation Total= 22 %	ALM	Weightage	8		90	2	2	2	2	
		Max Marks	40			10	10	10	10	
	Home Assignment and Textbook	Weightage	7		90	1.75	1.75	1.75	1.75	
		Max Marks	40			10	10	10	10	
	Continuous Evaluation - Lab Exercise	Weightage	7		120					7
		Max Marks	120							120

ATTENDANCE POLICY:

Every student is expected to be responsible for regularity of his/her attendance in class rooms and laboratories, to appear in scheduled tests and examinations and fulfill all other tasks assigned to him/her in every course
In every course, student has to maintain a minimum of 85% attendance to be eligible for appearing in Semester end examination of the course, for cases of medical issues and other unavoidable circumstances the students will be condoned if their attendance is between 75% to 85% in every course, subjected to submission of medical certificates, medical case file and other needful documental proof to the concerned departments

DETENTION POLICY :

In any course, a student has to maintain a minimum of 85% attendance and In-Semester Examinations to be eligible for appearing to the Semester End Examination, failing to fulfill these conditions will deem such student to have been detained in that course.

PLAGIARISM POLICY :

Supplement course handout, which may perhaps include special lectures and discussions

COURSE TEAM MEMBERS, CHAMBER CONSULTATION HOURS AND CHAMBER VENUE DETAILS:

Supplement course handout, which may perhaps include special lectures and discussions

Name of	Delivery	Sections	Chamber	Chamber	Chamber	Signature

Faculty	Component of Faculty	of Faculty	Consultation Day (s)	Consultation Timings for each day	Consultation Room No:	of Course faculty:
Vudatha Chandra Prakash	L	31-MA	-	-	-	-
Vudatha Chandra Prakash	P	31-A	-	-	-	-
Nagamalleswari Dubba	P	33-B	-	-	-	-
Radha Mothukuri	P	34-B	-	-	-	-
Abdul A	L	32-MA	-	-	-	-
Abdul A	P	32-A	-	-	-	-
CH Sabitha	P	31-B	-	-	-	-
Vignesh T	L	33-MA	-	-	-	-
Vignesh T	P	33-A	-	-	-	-
Thamodharan Arumugam	L	34-MA	-	-	-	-
Thamodharan Arumugam	P	34-A	-	-	-	-
Prasanthi Valluri	P	32-C	-	-	-	-
nuthakki praveena	P	34-C	-	-	-	-
Natha Deepthi	P	32-B	-	-	-	-
Thella Priyanka	P	31-C	-	-	-	-
Anjaneyulu Gurram	P	33-C	-	-	-	-

GENERAL INSTRUCTIONS

Students should come prepared for classes and carry the text book(s) or material(s) as prescribed by the Course Faculty to the class.

NOTICES

Most of the notices are available on the LMS platform.

All notices will be communicated through the institution email.

All notices concerning the course will be displayed on the respective Notice Boards.

Signature of COURSE COORDINATOR

(Vignesh T)

Signature of Department Prof. Incharge Academics & Vetting Team Member

Department Of CS&IT

HEAD OF DEPARTMENT:

Approval from: DEAN-ACADEMICS
(Sign with Office Seal) [object HTMLDivElement]