



1. Learning Outcomes:

Learning Outcome Component	Learning Outcome(Student will be able to)
Business Environment and Domain Knowledge (BEDK)	<ul style="list-style-type: none"> Develop understanding of various aspects of project management in general and IT project management in particular Develop understanding of various tools and techniques that assist in managing IT projects.
Critical thinking, Business Analysis, Problem Solving and Innovative Solutions(CBPI)	<ul style="list-style-type: none"> Do risk assessment; understand complex interplay of various issues in planning the IT projects involving deployment of sizable resources.
Global Exposure and Cross-Cultural Understanding (GECCU)	<ul style="list-style-type: none"> Develop a global perspective regarding managing IT projects.
Social Responsiveness and Ethics (SRE)	<ul style="list-style-type: none"> Incorporate social and ethical concerns while designing and implementing IT projects.
Effective Communication (EC)	<ul style="list-style-type: none"> Develop various IT project related documents, written in clear and concise language appropriate for both technical and business people.
Leadership and Teamwork (LT)	<ul style="list-style-type: none"> Acquire appropriate skills to work as team leader / team member in a project team that manages IT projects right from conceptualization to implementation.

LO–PO Mapping: Correlation Levels:

1=Slight(Low);2=Moderate(Medium);3= Substantial(High),“-“=no correlation

Sub.Code:1539613	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
LO1: Develop understanding of various aspects of project management in general and IT project management in particular.	3	2	2	2	-	-	-	1	1
LO2: Develop understanding of various tools and techniques that assist in managing IT projects.	3	2	2	2	-	-	-	1	1
LO3: Do risk assessment; understand complex interplay of various issues in planning the IT projects involving deployment of sizable resources.	2	2	3	2	2	1	1	-	1
LO4: Develop a global perspective regarding managing IT projects.	1	1	2	2	3	1	1	1	1
LO5: Incorporate social and ethical concerns while designing and implementing IT projects.	1	1	2	1	-	-	3	-	-
LO6: Develop various IT project related documents, written in clear and concise language appropriate for both technical and business people.	2	2	2	3	-	-	-	1	1



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Master of Business Administration, 3rd Semester
Subject Name: IT Project Management
Subject Code: 1539613

With
 effective from
 academic
 year 2020-21

LO7: Acquire appropriate skills to work as team leader / team member in a project team that manages IT projects right from conceptualization to implementation.	1	1	2	2	2	3	2	1	2
---	---	---	---	---	---	---	---	---	---

2. Course Duration: The course duration is of **40 sessions of 60 minutes each**

3. Course Contents:

Module No:	Contents	No. of Sessions	70Marks (External Evaluation)
I	<p>Introduction to software Project Management</p> <ul style="list-style-type: none"> • Introduction to Project • Introduction to Project Management • Reasons for IT project Failure • Project Life Cycle • System Development Life Cycle(SDLC) • Information Technology Project Methodology • Business case • Project Manager Skills and job description <p>Project Charter</p> <p>Project Scope Management</p> <ul style="list-style-type: none"> • Introduction • Scope Management Process 	10	17
II	<p>Project Estimation</p> <ul style="list-style-type: none"> • Introduction • Estimation Technique <ul style="list-style-type: none"> • Guesstimating • Delphi Technique • Time Boxing • Top-Down Estimating • Bottom-Up Estimating • Introduction to Constructive Cost Model (COCOMO) <p>Project Schedule and Budget</p> <ul style="list-style-type: none"> • Introduction • Developing the project schedule • Gantt Charts • Project Network Diagram • CPM and PERT 	10	18



III	<p>Project Risk Management</p> <ul style="list-style-type: none"> • Introduction • Risk Management process • Risk identification for IT projects • Qualitative and Quantitative approaches to risk Analysis • Risk Strategies • Risk Monitoring and Control • Risk Response and Evaluation project Quality Management. <p>Project Communication Management</p> <ul style="list-style-type: none"> • Introduction • Project Communication Plan • Project Metrics • Performance Reporting <p>Project Change Management</p> <ul style="list-style-type: none"> • Introduction • Nature of change • Change Management Plan • Dealing with Resistance and Conflict 	10	18
IV	<p>IT project Quality Management</p> <ul style="list-style-type: none"> • Introduction • Quality Tools and Philosophies • Quality Systems <ul style="list-style-type: none"> International Organization for Standardization (ISO) Six Sigma (6σ) The Capability Maturity Model Integration (CMMI) <p>Project Procurement Management</p> <ul style="list-style-type: none"> • Introduction • Project Procurement Management Processes • Outsourcing of products and services <p>Ethics in Project Management</p> <ul style="list-style-type: none"> • Introduction • Ethics in Projects <p>Project implementation and Closure</p> <ul style="list-style-type: none"> • Project Implementation • Administrative Closure • Closing the Project 	10	17



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Master of Business Administration, 3rd Semester
Subject Name: IT Project Management
Subject Code: 1539613

With
 effective from
 academic
 year 2020-21

V	Practical:		(30 marks CEC)
	<ul style="list-style-type: none"> • Creating Work Breakdown Structure using Microsoft Project • Transform WBS into baseline project plan using Microsoft Project • Tracking and Reporting Project Progress through Microsoft Project 		

4. Pedagogy :

- ICT enabled Classroom teaching
- Case study
- Practical/live assignment
- Interactive classroom discussions

5. Evaluation:

Students shall be evaluated on the following components:

A	Internal Evaluation	(Internal Assessment-50Marks)
	• Continuous Evaluation Component	30marks
	• Class Presence & Participation	10marks
	• Quiz	10marks
B	Mid-Semester examination	(Internal Assessment-30Marks)
C	End-Semester Examination	(External Assessment-70Marks)

6. Reference Books:

No.	Author	Name of the Book	Publisher	Year of Publication/Edition
1	Jack T Marchewka	Information Technology Project Management	Wiley India	Latest Edition
2	Kathy Schwalbe	Project Management in IT	Cengage	Latest Edition
3	Bob Hughes, Mike Cotterell, Rajib Mall	Software Project Management in Practice	Pearson	Latest Edition
4	Pankaj Jalote	Software Project Management in Practice	Pearson	Latest Edition
5	Samuel J mantel et.al	Project Management Core Textbook	Wiley India	Latest Edition
6	Roger S. Pressman	Software Engineering: A practical Approach	Mc Graw Hill.	Latest Edition
7	Ian Sommerville	Software Engineering	Addison Wesley	Latest Edition
8	G.P.Sudhakar	Elements of Software Project Management	PHI Learning	Latest Edition



GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Master of Business Administration, 3rd Semester
Subject Name: IT Project Management
Subject Code: 1539613

**With
effective from
academic
year 2020-21**

7. List of Journals/Periodicals/Magazines/Newspapers/Web resources, etc

1. www.pmi.org
2. www.projectmanagement.com
3. International Journal of Project Management, Elsevier.
4. Project Management Journal, Sage Journals.
5. Project Management Software Utilization and Project Performance, Elsevier
6. The Journal of Modern Project Management
7. Project Management and Risk Analysis