

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BRANCH: CYBER SECURITY (59)**  
**SUBJECT NAME: Cyber Disaster Management and Recovery**  
**SUBJECT CODE: 2745901**  
**Semester IV**

**Type of course:** Master of Engineering

**Prerequisite:**

**Teaching and Examination Scheme:**  
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Teaching Scheme			Credits	Examination Marks						Total Marks
L	T	P		Theory Marks		Practical Marks				
			ESE (E)	PA (M)	ESE (V)		PA (I)			
					ESE	OEP	PA	RP		
4	0	2	5	70	30	20	10	10	10	150

**Content:**

Sr. No.	Content	Total Hrs.	% Weightage
1.	<b>Business Continuity and Disaster Recovery Overview</b> Introduction, Business Continuity and Disaster Recovery Defined, Components of Business, The Cost of Planning versus the Cost of Failure, Types of Disasters to Consider, Business Continuity and Disaster Recovery Planning Basics	3	5%
2.	<b>Project Initiation</b> Introduction, Elements of Project Success, Project Plan Components, Key Contributors and Responsibilities	3	10%
3.	<b>Risk Assessment</b> Introduction, Risk Management Basics, Risk Assessment Components	5	15%
4.	<b>Business Impact Analysis</b> Introduction, Business Impact Analysis Overview, Understanding Impact Criticality, Identifying Business Functions, Gathering Data for the Business Impact Analysis	7	15%
5.	<b>Mitigation Strategy Development</b> Introduction, Types of Risk Mitigation Strategies, The Risk Mitigation Process, Developing Your Risk Mitigation Strategy, People, Buildings, and Infrastructure, IT Risk Mitigation, Backup and Recovery Considerations	9	20%
6.	<b>Business Continuity/Disaster Recovery Plan Development</b> Introduction, Phases of the Business Continuity and Disaster Recovery, Activation Phase, Recovery Phase, Business Continuity Phase, Maintenance/Review Phase	7	15%
7.	<b>Emergency Response and Recovery</b> Introduction, Emergency Management Overview, Emergency Response Plans, Crisis Management Team, Disaster Recovery, IT Recovery Tasks	6	20%

**Reference Books:**

1. “Business Continuity & Disaster Recovery for IT Professionals” by Susan Snedaker, SYNGRESS Publication
2. “Business Continuity in a Cyber World” by David Sutton, Business Expert Press, Release Date: June 2018,ISBN: 9781947441477,  
<https://www.oreilly.com/library/view/business-continuity-in/9781947441477/>

**Course Outcome:**

After learning the course the students should be able to:

**List of Experiments:**