



Faculty of Computer Studies (FoCS)

Course Name: Incident and Disaster Management

(UG/PG): PG

Number of Credits: 3

Level: 4

Learning Objective(s):

The course aims in providing a hands on approach to understand the concepts of Incident and Disaster Management. It covers the most of the concepts which deals with the process models for proper Incident and Disaster Management. It helps to create an understanding and identification of methods for Incident and Disaster Management.

Pedagogy:

- Lectures
- Class discussion followed by practical

Course Outline

Sr. No.	Topic	Hours
1	Risk and Vulnerability Analysis: Risk, Risk Reduction, Vulnerability: concept and analysis, Strategic Development for Vulnerability Reduction, Problem Management	5
2	Introduction to Incident, Incident Response, Concept of the Attack Lifecycle, IR, Introduction to Computer Security Incident, Goals of Incident, IR Process (Incident Response Process): Initial Response, Investigation, Remediation, Tracking of Significant Investigative Information, Reporting	5
3	Pre-Incident Preparation: Incident Response, Identifying Risk, Policies Global Infrastructure Issues, Host-Based Security, IR Team, Computing Device Configuration, Network Configuration	5
4	Incident Detection and Characterization: Collecting Initial Facts, Checklists, Case Notes, Attack Timeline, Investigative Priorities, Defining Leads of Value, Acting on Leads, Turning Leads into Indicators, Lifecycle of Indicator Generation	5
5	Introduction on Disaster, Different Types of Disaster, Practical examples for different types of disasters	5
6	Rehabilitation, Reconstruction and Recovery: Reconstruction and Rehabilitation, Damage Assessment, Post Disaster effects and Remedial Measures, Disaster Resistant, Education and Awareness, Long-term Counter Disaster Planning	5
7	Case Study on Incident and Disaster Management	15
	Total	45

Books Recommended

1. " Incident Response and Computer Forensics", Kevin Mandia, Mathew Pepe, Jason Luttgens, 3rd Edition, McGraw-Hill Osborne Media, 2014.
2. Dr. Mrinalini Pandey Disaster Management Wiley India Pvt. Ltd.
3. Tushar Bhattacharya Disaster Science and Management McGraw Hill Education (India) Pvt. Ltd.

Suggested Evaluation Methods:

- Lab based Evaluations
- Assignments
- Presentation

Parallel/Similar courses the existing curriculum:

S.No.	Name of the course	Institute where it was offered
1	Disaster Management	SRM University
2	Disaster Management	Gujarat Technological University

Name of Member	Prof. Harshad Gune	Dr. Tejaswini Apte			
Designation	Dy. Director	Domain Head			
Org. / Inst.	SICSR	SICSR			
Signature					

Name of the Expert:

Signature:

Date: