



Jansons Institute of Technology

Karumathampatti, Coimbatore – 641 659
Approved by AICTE and Affiliated to Anna University
An ISO 9001:2015 certified institution

Department of Computer Science and Engineering

Industry Readiness Course - Syllabus

WEB APPLICATIONS SECURITY

2019 - 2020 **ODD** Semester

Course Objectives:

- To understand the role and benefits of web-based applications.
- To identify web application security controls and risk mitigation techniques.
- To design a web – application Vulnerability and Security Assessment Test Plan.

Course Outcomes:


- To understand the basic principles for web applications and benefits of the web system.
- To gain knowledge about the various attacks caused using the network and communication system in an application.
- To Ability to determine the security threats and vulnerabilities in computer networks using penetration testing techniques.

Syllabus:

Module 1	Overview of Web Applications	07
Definition of Web Application - Definition of Client - History of Web Application - Interface and Structure- Benefits of Web Application - Drawbacks of Web Application - Web Application vs Cloud Application - Future of Web Application		
Module 2	Web Application Security	08
Introduction to web application security - How Does Web Application Security Work - Web Application Lifecycle Maintenance - Importance of Web Application Security - Web Application Security vs Network Security		
Module 3	Web Application Vulnerabilities	15
What Makes Web Application Vulnerable - Web Application Vulnerabilities - Broken Access Control - Broken Authentication and Session Management - Buffer Overflows - Cross Site Scripting Flaws - Denial of Service - Improper Error Handling - Insecure Configuration Management - Insecure Storage - SQL Injection Flaws - Unvalidated Input - Defensive Measures		


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