



# 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

## Cyber Security for Web Application

2018 – 2019 EVEN Semester

### Course Objectives:

- To understand the Cyber security and attacks.
- To understand the web application and the attacks on web application.
- To apply the security from web application attacks.

### Course Outcomes:

- To know about the types of attacks and its security.
- To gain knowledge about the attacks on web application.
- To apply the security on the attacks on web application.


### Syllabus:

<b>Module 1</b>	<b>Cyber-Security and Attacks</b>	<b>10</b>
Introduction to Cyber Security – Types – Goals – Skills Required – Example. Cyber Attacks & vulnerabilities – Types – Examples. Cyber Defenders – Roles & Responsibilities – System protection tools – Network security tools.		
<b>Module 2</b>	<b>Web Application</b>	<b>10</b>
Web application introduction – Working principle of Web-Application – Web-based attacks – sources of web application attack – Types of website attacks – Types of Security Tests – Protection against web application attacks		
<b>Module 3</b>	<b>Securing Web application attacks</b>	<b>10</b>
Introduction to security on web application – Application security tool – Securing web application – Web app security standards – Ways of securing applications – Security need for Web services – Web app security framework – Application security life cycle – Web security testing – Case Study		

**Course Designed By**



Ms R Ashwini  
AP / CSE  
Jansons Institute of  
Technology



Ms T Sasikala  
AP / CSE  
Jansons Institute of  
Technology

**Approved By**



Dr E S Shamila,  
Prof / CSE  
Jansons Institute of  
Technology

Industry Readiness  
Coordinator

**Approved By**



Mr. S. K. Senthilkumar,  
Prof / CSE  
Jansons Institute of  
Technology

Industry Readiness  
Coordinator

**Approved By**



Dr A Velayudham,  
Prof & Head /CSE  
Jansons Institute of  
Technology

Head of Department

**Approved By**



Principal

**PRINCIPAL**

**Dr. A. VELAYUDHAM, M.E., PH.D.** JANSONS INSTITUTE OF TECHNOLOGY  
Professor & Head,  
Department of Computer Science and Engineering,  
Jansons Institute of Technology,  
KARUMATHAMPATTI  
COIMBATORE - 641 659.