





## Three-Day Short Course on Web Application Security

March 29-31, 2016

## Programme Schedule

Dauc	Topics
Days	•
Day - 1 Forenoon	9:30 AM to 1 PM
Welcome Address (10 minutes)	By Mr.Renjith A, Manager, CERT-K
Inauguration & Address (20 minutes)	Importance of Web Application Security for Government <b>By Shri. Manoj Abraham IPS,</b> IG of Kerala Police
Special Address (10 minutes)	By Prof. Rajasree M.S., Director, IIITM-K
Vote of Thanks (5 minutes)	By Mr. Md.Meraj Uddin, Assistant Professor, IIITM-K
Session – 1 (1 hour + 15 min Q&A)	Introduction to Web application development concepts - PHP Sample web page design <sup>1</sup> , Database <sup>2</sup> <b>By Rejah, Sreenath</b>
Tea Break (15 minutes)	Networking, Visiting Card exchange etc.
Session – 2 (1 hour + 15 min Q&A)	Anatomy of a Web Application - 3 tier Architecture <sup>3</sup> , Sessions & Cookies <b>By Rajesh, Rejah</b>
Lunch Recess	
Day - 1 Afternoon	2 PM to 5:30 PM
Session – 1 (80 min + 15 min Q&A)	Introduction to Web Application Security - Recent patterns, trends & statistics By Rejah, Sreenath
Tea Break (20 minutes)	5 Quiz questions will be asked based on the sessions
Session – 2 (80 min + 15 min Q&A)	OWASP Top 10 Vulnerabilities <b>By Rejah, Rajesh</b>
Home Work <sup>5</sup>	
Day - 2 Forenoon	9:30 AM to 1 PM
Session – 1 (80 min + 15 min Q&A)	Lab exercises <sup>4</sup> for Top 10 vulnerabilities with focus on SQL Injection and XSS <b>By Sreenath, Rajesh</b>
Tea Break (20 minutes)	5 Quiz questions will be asked based on the sessions
Session – 2 (80 min + 15 min Q&A)	Static & Dynamic Application Analysis using LAPSE+ and ZAP <b>By Rajesh, Rejah</b>
Lunch Recess	











Day - 2 Afternoon	2 PM to 5:30 PM
Session – 1 (80 min + 15 min Q&A)	Attack Mitigation Strategies, Importance of Third party audit, Best practices, Cyber Laws By Rajesh, Rejah
Tea Break (20 minutes)	5 Quiz questions will be asked based on the sessions
Session – 2 (80 min + 15 min Q&A)	Introduction to Joomla Application Development  By Rejah, Sreenath
Home Work <sup>6</sup>	
Day - 3 Forenoon	9:30 AM to 1 PM
Session – 1 (80 min + 15 min Q&A)	Security Assessment of Joomla applications and Steps to fix the problems  By Rejah, Rajesh
Tea Break (20 minutes)	5 Quiz questions will be asked based on the sessions
Session – 2 (80 min + 15 min Q&A)	Preparation of Audit Reports, Elimination of False positives, Strategies for implementing Security in your organization By Rejah, Rajesh
Lunch Recess	
Day - 3 Afternoon	2 PM to 5:30 PM
Session – 1 (80 min)	Help in Security Audit of Applications brought by Participants <b>By Rejah, Sreenath</b>
Tea Break (20 minutes)	5 Quiz questions will be asked based on the sessions
Session – 2 (80 min)	Summarizing Security Lessons Learnt so far and Self-Assessment Test (30 objective type questions) <sup>7</sup> <b>By Sreenath, Rajesh</b>
Valedictory Session & Distribution of Certificates (30 min)	By Prof. Rajasree M.S., Director, IIITM-K

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## Disclosure

- 1. LAMP Stack is used for development. A pre-configured OWASP branded virtual machine containing all lab exercises will be distributed to the participants. One-week limited support will be provided to the participants who want to try this after the course.
- 2. MySQL will be used
- 3. PHP will be used
- 4. Participants to try Web Goat here
- 5. Participants have to draw their Application Architecture and note down the technologies used in each stage
- 6. List down the vulnerabilities faced by participants in their applications
- 7. Top scorers will be rewarded



