Web application security – Theory

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| Allotted | Day | Topic | Subtopics |
|  | L0 | Web application security Roadmap- Assessment |  |
| 6 | L1 | Introduction to web application security |  |
| L2 | Evolution of Web |  |
| L3 | Web Technologies |  |
| L4 | Web application Security |  |
| L5 | Information gathering |  |
|  | L6 | Information gathering |  |
| 3 | L7 | Threat Modeling |  |
| L8 | Threat Modeling |  |
| L9 | Threat Modeling |  |
| 7 | L10 | Authentication - Types |  |
| L11 | Authentication -Password cracking |  |
| L12 | Authentication - |  |
| L13 | Authentication |  |
| L14 | Buffer overflow |  |
| L15 | Buffer overflow |  |
| L16 | Buffer overflow |  |
| 10 | L17 | Sql injection |  |
| L18 | OSWAP Top 10 |  |
| L19 | OSWAP Top 10 |  |
| L20 | OSWAP Top 10 |  |
| L21 | OSWAP Top 10 |  |
| L22 | OSWAP Top 10 |  |
| L23 | OSWAP Top 10 | API Security |
| L24 | OSWAP Top 10 | API Security |
| L25 | OSWAP Top 10 | API Security |
| L26 | OSWAP Top 10 | API Security |
| 10 | L27 | Web application Infrastrucutre security |  |
| L28 | Web application Infrastrucutre security |  |
| L29 | Web application Infrastrucutre security |  |
| L30 | Web application Infrastrucutre security |  |
| L31 | Web application Infrastrucutre security |  |
| L32 | Web application Infrastrucutre security |  |
| L33 | Web application Infrastrucutre security |  |
| L34 | Web application Infrastrucutre security |  |
| L35 | Web application Infrastrucutre security | web server hardening methods |
| L36 | Web application Infrastrucutre security | Introduction to secure software development life cycle |

10 Theory assignment – Each carries 10 Marks

Lab Course Plan

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| Day | Topic |
| L1 | HTML – CSS – Javascript |
| L2 | Analyze headers, status codes, and responses. |
| L2 | Information gathering -Google Dorks |
| L3 | Information gathering – others |
| L4 | Threat modelling |
| L5 | Threat Modelling |
| L6 | Set up vulnerable application |
| L7 | Vulnerable Assessment |
| L8 | OSWAP Top 10 |
| L9 | OSWAP Top 10 |
| L10 | API Security |
| L11 | API Security |
| L12 | Attacks on web servers |

12 Lab assignment – Each carries 10 Marks