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SYLLABUS

2016-1 (Fall 2016)

Class Hours: 15:20-17:55 Fri. / B104
Lecture Notes: courseware_ns_sysu@163.com
Instructor: Cai Guoyang, email: isscgy@mail.sysu.edu.cn

Web Security: Theory & Applications

School of Data & Computer Science, Sun Yat-sen University

Syllabus

- **A. DESCRIPTION**
  - The Importance of Web Security
    - ✧ CNCERT/CC Annual Report 2015
    - ✧ OWASP Top 10 For 2013
  - Prerequisite

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- **B. ORGANIZATION**
    - Lecture Time
    - Home works
    - Lab Works

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- **C. COURSE OBJECTIVES**
  - To introduce
  - To develop
  - To provide

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- **D. COURSE TOPICS**
  - Introduction to Information Security
  - Cryptographic Techniques
  - Authentication Techniques
  - Introduction to Internet Security
  - Network Attack and Defence
  - Firewall
  - Intrusion Detection
  - The Architecture and Security of Web Applications
    - Security Flaws of Web Applications
    - Secure Web Programming

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- **E. TEXT AND REQUIRED SUPPLIES**
  - Course Notes
  - References
    - ✧ William Stallings, Lawrie Brown, Computer Security, Pearson (2008)
    - ✧ Ross Anderson, Security Engineering, 2th ed., Wiley (2008)
    - ✧ Eric Cole, Network Security Bible, 2th ed., Wiley (2009)
    - ✧ Dafydd Stuttard, Marcus Pinto, The Web Application: Hacker's Handbook, 2th ed., Wiley (2011)
    - ✧ Paco Hope, Ben Waltber, Web Security Testing Cookbook, O'Reilly (2009)

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- **F. GRADING PLAN**
  - Assignments 30%
    - ✧ Pls. send to isscgy03@163.com
    - ✧ You can discuss the problems with your classmates, but all work handed in should be original, written by you in your own words and uploaded on time.
    - ✧ No late homework will be accepted.
  - Final Exam 60%
  - Attendance 10%

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- **G. CLASSROOM RULES OF CONDUCT**
  - Cell phone using
  - Laptop using
  - Food & drink
  - Being Late for class

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