

**2017 - 2018 ACADEMIC YEAR FALL SEMESTER
SYLLABUS**

COURSE CODE AND TITLE	Computer and Network Security & Advanced Computer Networks
TEACHING MEMBER	Prof. Dr. Hasan Huseyin Balik
GRADING PROCEDURE	Midterm (Assignment) and Final
TEXT BOOK	<p>1- Computer Security: Principles and Practice, 3rd Edition, William Stallings and Lawrie Brown, 2015</p> <p>2- Computer Security Fundamentals, 3rd Edition, William (Chuck) Easttom, II, 2016</p> <p>3- Cryptography and Network Security: Principles and Practice, 6th Edition, William Stallings, 2014</p> <p>4- Introduction to Computer Security, Michael Goodrich, University of California, Irvine Roberto Tamassia, Brown University, 2011</p> <p>5- Network Security Essentials: Applications and Standards, 5th Edition, William Stallings, 2014</p>
COURSE OUTLINE	<p>1- Overview</p> <p>2- Cryptographic Tools</p> <p>3- User Authentication</p> <p>4- Access Control</p> <p>5- Database and Cloud Security</p> <p>6- Malicious Software</p> <p>7- Denial-of-Service Attacks</p> <p>8- Intrusion Detection</p> <p>9- Firewalls and Intrusion Prevention Systems</p> <p>10- Buffer Overflow</p> <p>11- Software Security</p> <p>13-Operating System Security</p> <p>14-IT Security Management and Risk Assessment</p> <p>15-IT Security Controls, Plans and Procedures</p>