

**2022 - 2023 ACADEMIC YEAR FALL SEMESTER
SYLLABUS**

COURSE TITLE	Computer and Network Security / Security of Computer Systems
TEACHING MEMBER	Prof. Dr. Hasan Huseyin Balik
COURSE PAGE	http://www.hasanbalik.com/LectureNotes/NetworkSecurity/
GRADING PROCEDURE	
TEXT BOOK	<p>1- Computer Security: Principles and Practice, 4th Edition, William Stallings and Lawrie Brown, 2018</p> <p>2- Computer Security Fundamentals, 3rd Edition, William (Chuck) Easttom, II, 2016</p> <p>3- Cryptography and Network Security: Principles and Practice, 7th Edition, William Stallings, 2017</p> <p>4- Network Security Essentials: Applications and Standards, 6th Edition, William Stallings, 2017</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 Data Center Security</p> <p>6- Malicious Software</p> <p>7- Denial-of-Service Attacks</p> <p>8- Midterm Exam</p> <p>9- Intrusion Detection</p> <p>10- Firewalls and Intrusion Prevention Systems</p> <p>11- Buffer Overflow</p> <p>12- Software Security</p> <p>13- Operating System Security</p> <p>14- Cloud and IoT Security</p> <p>15- Final Exam</p>