

**2020 - 2021 ACADEMIC YEAR FALL SEMESTER  
SYLLABUS**

<b>COURSE CODE AND TITLE</b>	IT551 Computer and Network Security & ECE580 Advanced Computer Networks
<b>TEACHING MEMBER</b>	Prof. Dr. Hasan Huseyin Balik
<b>GRADING PROCEDURE</b>	Final Assignment
<b>TEXT BOOK</b>	<p>1- Computer Security: Principles and Practice, 4<sup>th</sup> Edition, William Stallings and Lawrie Brown, 2018</p> <p>2- Computer Security Fundamentals, 3<sup>rd</sup> Edition, William (Chuck) Easttom, II, 2016</p> <p>3- Cryptography and Network Security: Principles and Practice, 7<sup>th</sup> Edition, William Stallings, 2017</p> <p>4- Network Security Essentials: Applications and Standards, 6<sup>th</sup> Edition, William Stallings, 2017</p>
<b>COURSE OUTLINE</b>	<p>1- Overview</p> <p>2- Cryptographic Tools</p> <p>3- User Authentication</p> <p>4- Access Control</p> <p>5- Malicious Software</p> <p>6- Denial-of-Service Attacks</p> <p>7- Intrusion Detection</p> <p>8- Firewalls and Intrusion Prevention Systems</p> <p>9- Cloud and IoT Security</p> <p>10-IT Security Management and Risk Assessment</p> <p>11-IT Security Controls, Plans and Procedures</p> <p>12- Physical and Infrastructure Security</p>