Transilvania University of Braşov, Romania

Study program: CyberSecurity

Faculty: Electrical Engineering and Computer Science

Study period: 2 years (master)

Academic year structure: 2 semesters (14 weeks per semester)

Examination sessions (two): winter session (January/February)

summer session (June/July)

Courses per years (C= course; S = seminar; L = laboratory; P = project)

1\textsuperscript{st} Year

<table>
<thead>
<tr>
<th>No. crt.</th>
<th>Course</th>
<th>Code</th>
<th>1\textsuperscript{st} Semester</th>
<th>2\textsuperscript{nd} Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>C</td>
<td>S</td>
</tr>
<tr>
<td>1.</td>
<td>Cryptography Fundamentals and Application Scenarios</td>
<td>CS101</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>2.</td>
<td>CyberSecurity of Information Systems and Services</td>
<td>CS102</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3.</td>
<td>Identity and Access Management in the Virtual Space</td>
<td>CS103</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4.</td>
<td>Types of Cyberattacks and Threats</td>
<td>CS104</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>5.</td>
<td>Academic ethics and integrity</td>
<td>CS105</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>6.</td>
<td>Practical placement</td>
<td>CS106</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>7.</td>
<td>Management of Cyber Security Incidents</td>
<td>CS207</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>9.</td>
<td>Security of Critical Infrastructures</td>
<td>CS209</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>10.</td>
<td>Industrial Control Systems Security</td>
<td>CS210</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>12.</td>
<td>Practical placement</td>
<td>CS212</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>13.</td>
<td>Secure Programming and Application Security (Optional 1)</td>
<td>CS213</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>14.</td>
<td>Secure Web and Internet Technologies (Optional 1)</td>
<td>CS214</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

2\textsuperscript{nd} Year

<table>
<thead>
<tr>
<th>No. crt.</th>
<th>Course</th>
<th>Code</th>
<th>3\textsuperscript{rd} Semester</th>
<th>4\textsuperscript{th} Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>C</td>
<td>S</td>
</tr>
<tr>
<td>1.</td>
<td>IT Forensics</td>
<td>CS301</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>Data mining and data warehousing</td>
<td>CS302</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3.</td>
<td>Ethical hacking and security audit</td>
<td>CS303</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>4.</td>
<td>Information Assurance and Risk Management</td>
<td>CS304</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>5.</td>
<td>Practical placement</td>
<td>CS305</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>6.</td>
<td>CyberSecurity of Mobile Devices (Optional 1)</td>
<td>CS306</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>7.</td>
<td>Malware analysis (Optional 1)</td>
<td>CS307</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>8.</td>
<td>Enterprise Architecture and Business Performance (Optional 2)</td>
<td>CS308</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>9.</td>
<td>Data Protection and Security Legislation (Optional 2)</td>
<td>CS309</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>10.</td>
<td>Practical placement</td>
<td>CS410</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>11.</td>
<td>Practical for dissertation paper preparation</td>
<td>CS411</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>12.</td>
<td>Elaboration of dissertation paper</td>
<td>CS412</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>