### CURRICULUM B.SC. CYBER SECURITY

#### DISTANCE LEARNING

<table>
<thead>
<tr>
<th>Semester</th>
<th>Module</th>
<th>Course Code</th>
<th>Course</th>
<th>ECTS credits</th>
<th>Type of Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Semester</td>
<td>Introduction to Data Protection and IT Security</td>
<td>DLBBQVAT01</td>
<td>Introduction to Data Protection and IT Security</td>
<td>5</td>
<td>Exam</td>
</tr>
<tr>
<td>3. Semester</td>
<td>Mathematics: Analysis</td>
<td>DLBBDFAC01</td>
<td>Mathematics: Analysis</td>
<td>5</td>
<td>Exam</td>
</tr>
<tr>
<td>4. Semester</td>
<td>Introduction to Academic Work</td>
<td>DLBBQWAI01</td>
<td>Introduction to Academic Work</td>
<td>5</td>
<td>Basic Workbook</td>
</tr>
<tr>
<td>5. Semester</td>
<td>Introduction to Programming with Python</td>
<td>DLBBDPAP01</td>
<td>Introduction to Programming with Python</td>
<td>5</td>
<td>Exam</td>
</tr>
</tbody>
</table>

- **Case Study**: Operating Systems, Computer Networks, and Distributed Systems
- **Written Assignment**: Introduction to Data Protection and IT Security
- **Exam or Advanced Workbook**: Mathematics: Analysis
- **Basic Workbook**: Introduction to Academic Work
- **Exam**: Introduction to Programming with Python
- **Case Study**: Statistics: Probability and Descriptive Statistics

#### Elective Modules

- **Elective A**: Choose three modules:
  - IT Security Consulting
  - Social Engineering
  - Host Forensics
  - DevSecOps
  - Security in Complex Networks
  - Network Forensics

- **Elective B**:
  - Business Intelligence
  - Future Threats
  - Cloud Security
  - Pentesting
  - Industrial Systems Technology
  - Cyber Threat Intelligence
  - Mobile Threats

- **Elective C**:
  - Business Intelligence
  - Future Threats
  - Cloud Security
  - Pentesting
  - Industrial Systems Technology
  - Cyber Threat Intelligence
  - Mobile Threats

- **Bachelor Thesis**: Bachelor Thesis
  - Thesis Defense
  - 9 ECTS credits
  - Presentation/Colloquium