

# BSc in Cybersecurity

## Academic Program Structure:

<p>➤ <b>Table 1</b> University Requirements</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>English Intermediate</td><td style="text-align: center;">3</td></tr> <tr><td>English Upper - Intermediate</td><td style="text-align: center;">3</td></tr> <tr><td>English Advanced</td><td style="text-align: center;">3</td></tr> <tr><td>Soft Skills I</td><td style="text-align: center;">2</td></tr> <tr><td>Entrepreneurship Bootcamp</td><td style="text-align: center;">6</td></tr> <tr><td>Leadership Camp</td><td style="text-align: center;">1</td></tr> <tr><td>Group A</td><td style="text-align: center;">4</td></tr> <tr><td>Group B</td><td style="text-align: center;">1</td></tr> <tr><td>Group B</td><td style="text-align: center;">1</td></tr> <tr><td>Group B</td><td style="text-align: center;">1</td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: center;"><b>25 CH</b></td></tr> </table> <p>➤ <b>Table 2</b> College Requirements</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Functional Math</td><td style="text-align: center;">3</td></tr> <tr><td>Maths for Computing</td><td style="text-align: center;">3</td></tr> <tr><td>Fundamentals of Computing</td><td style="text-align: center;">4</td></tr> <tr><td>Programming</td><td style="text-align: center;">3</td></tr> <tr><td>Discrete Mathematics</td><td style="text-align: center;">3</td></tr> <tr><td>Professional Practice</td><td style="text-align: center;">3</td></tr> <tr><td>Managing a Successful Computing Project</td><td style="text-align: center;">3</td></tr> <tr><td>STEM Lab I</td><td style="text-align: center;">1</td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: center;"><b>23 CH</b></td></tr> </table>	English Intermediate	3	English Upper - Intermediate	3	English Advanced	3	Soft Skills I	2	Entrepreneurship Bootcamp	6	Leadership Camp	1	Group A	4	Group B	1	Group B	1	Group B	1	<b>Total</b>	<b>25 CH</b>	Functional Math	3	Maths for Computing	3	Fundamentals of Computing	4	Programming	3	Discrete Mathematics	3	Professional Practice	3	Managing a Successful Computing Project	3	STEM Lab I	1	<b>Total</b>	<b>23 CH</b>	<p>➤ <b>Table 3</b> Cybersecurity Courses</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Networking</td><td style="text-align: center;">3</td></tr> <tr><td>Website Design &amp; Development</td><td style="text-align: center;">3</td></tr> <tr><td>Data Structures &amp; Algorithms</td><td style="text-align: center;">3</td></tr> <tr><td>Security</td><td style="text-align: center;">3</td></tr> <tr><td>Cryptography</td><td style="text-align: center;">3</td></tr> <tr><td>Network Security</td><td style="text-align: center;">3</td></tr> <tr><td>Forensics</td><td style="text-align: center;">3</td></tr> <tr><td>Information Security Management</td><td style="text-align: center;">3</td></tr> <tr><td>Computing Research Project</td><td style="text-align: center;">6</td></tr> <tr><td>Database Design &amp; Development</td><td style="text-align: center;">3</td></tr> <tr><td>Business Intelligence</td><td style="text-align: center;">3</td></tr> <tr><td>Secure Coding</td><td style="text-align: center;">3</td></tr> <tr><td>Computer Organization and Design</td><td style="text-align: center;">3</td></tr> <tr><td>Operating Systems</td><td style="text-align: center;">3</td></tr> <tr><td>Ethical Hacking using Linux</td><td style="text-align: center;">3</td></tr> <tr><td>Penetration Testing</td><td style="text-align: center;">3</td></tr> <tr><td>Risk Analysis &amp; Systems Testing</td><td style="text-align: center;">3</td></tr> <tr><td>Secure System Design and Development</td><td style="text-align: center;">3</td></tr> <tr><td>Elective I</td><td style="text-align: center;">3</td></tr> <tr><td>Elective II</td><td style="text-align: center;">3</td></tr> <tr><td>Elective III</td><td style="text-align: center;">3</td></tr> <tr><td>Capstone project I</td><td style="text-align: center;">1</td></tr> <tr><td>Capstone project II</td><td style="text-align: center;">2</td></tr> <tr><td>Apprenticeship Training</td><td style="text-align: center;">18</td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: center;"><b>87 CH</b></td></tr> </table>	Networking	3	Website Design & Development	3	Data Structures & Algorithms	3	Security	3	Cryptography	3	Network Security	3	Forensics	3	Information Security Management	3	Computing Research Project	6	Database Design & Development	3	Business Intelligence	3	Secure Coding	3	Computer Organization and Design	3	Operating Systems	3	Ethical Hacking using Linux	3	Penetration Testing	3	Risk Analysis & Systems Testing	3	Secure System Design and Development	3	Elective I	3	Elective II	3	Elective III	3	Capstone project I	1	Capstone project II	2	Apprenticeship Training	18	<b>Total</b>	<b>87 CH</b>
English Intermediate	3																																																																																										
English Upper - Intermediate	3																																																																																										
English Advanced	3																																																																																										
Soft Skills I	2																																																																																										
Entrepreneurship Bootcamp	6																																																																																										
Leadership Camp	1																																																																																										
Group A	4																																																																																										
Group B	1																																																																																										
Group B	1																																																																																										
Group B	1																																																																																										
<b>Total</b>	<b>25 CH</b>																																																																																										
Functional Math	3																																																																																										
Maths for Computing	3																																																																																										
Fundamentals of Computing	4																																																																																										
Programming	3																																																																																										
Discrete Mathematics	3																																																																																										
Professional Practice	3																																																																																										
Managing a Successful Computing Project	3																																																																																										
STEM Lab I	1																																																																																										
<b>Total</b>	<b>23 CH</b>																																																																																										
Networking	3																																																																																										
Website Design & Development	3																																																																																										
Data Structures & Algorithms	3																																																																																										
Security	3																																																																																										
Cryptography	3																																																																																										
Network Security	3																																																																																										
Forensics	3																																																																																										
Information Security Management	3																																																																																										
Computing Research Project	6																																																																																										
Database Design & Development	3																																																																																										
Business Intelligence	3																																																																																										
Secure Coding	3																																																																																										
Computer Organization and Design	3																																																																																										
Operating Systems	3																																																																																										
Ethical Hacking using Linux	3																																																																																										
Penetration Testing	3																																																																																										
Risk Analysis & Systems Testing	3																																																																																										
Secure System Design and Development	3																																																																																										
Elective I	3																																																																																										
Elective II	3																																																																																										
Elective III	3																																																																																										
Capstone project I	1																																																																																										
Capstone project II	2																																																																																										
Apprenticeship Training	18																																																																																										
<b>Total</b>	<b>87 CH</b>																																																																																										

### List of Elective Courses (9 CH):

Web Security	3
Data analytics	3
Artificial Intelligence	3
Internet of Things Security	3
Mobile & Wireless Security	3
Incident response management	3
Special Topics in Cyber Security	3