

**Kaveri University**  
**B.Tech. Computer Science and Engineering (Cyber Security)**  
**Course Structure**  
**Applicable from Academic Year 2026-2027**

**I Year**

<b>SEMESTER-I</b>						
Sl. No.	Course Code	Course	L	T	P	Credits
<b>3 WEEKS COMPULSORY INDUCTION PROGRAM</b>						
1	26MA101BS	Mathematics – I (Calculus and Linear Algebra)	3	1	0	4
2	26PH102BS	Applied Physics	3	0	0	3
3	26CS103ES	Programming for Problem Solving	3	0	0	3
4	26ME104ES	Computer Aided Engineering Graphics	1	0	4	3
5	26EE105ES	Basic Electrical Engineering	2	0	0	2
6	26PH106BS	Applied Physics Lab	0	0	2	1
7	26CS107ES	Programming for Problem Solving Lab using C	0	0	2	1
8	26ME108ES	Engineering Workshop / Maker Lab	1	0	2	2
9	26EE109ES	Basic Electrical Engineering Lab	0	0	2	1
10	26PE01AU	Sports and Yoga	3 <sup>^</sup>	0	0	0
<b>Total</b>			<b>13+3<sup>^</sup></b>	<b>1</b>	<b>12</b>	<b>20</b>

<sup>^</sup>represents related to Audit Course.

<b>SEMESTER-II</b>						
Sl. No.	Course Code	Course	L	T	P	Credits
1	26MA201BS	Mathematics – II (Ordinary Differential Equations and Vector Calculus)	3	1	0	4
2	26CY202PC	Data Structures and Algorithms	3	0	0	3
3	26EC203ES	Electronic Devices and Circuits	2	0	0	2
4	26CY204PC	Discrete Mathematics	3	1	0	4
5	26EN205HS	Communication Skills	1	0	0	1
6	26CY206ES	Fundamentals of Python Programming	3	0	0	3
7	26CY207PC	Data Structures and Algorithms Lab	0	0	2	1
8	26CS208ES	Python Programming Lab	0	0	2	1
9	26EN209HS	Communication Skills Lab	0	0	2	1
10	26MS210HS	Design Thinking	0	1	2	2
<b>Total</b>			<b>15</b>	<b>3</b>	<b>8</b>	<b>22</b>

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**II Year**

<b>SEMESTER-III</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	26CY301PC	Database Management Systems	3	0	0	3
2	26CY302PC	Computer Organization and Architecture	3	0	0	3
3	26CY303PC	Operating Systems	3	0	0	3
4	26CY304PC	Web Programming with Java	3	1	0	4
5	26CY305PC	Fundamentals of Cyber Security	3	0	0	3
6	26MA306BS	Mathematics - III (Probability and Statistics)	3	1	0	4
7	26CY307PC	Database Management Systems Lab	0	0	2	1
8	26CY308PC	Linux Security Tools Lab	0	0	2	1
9	26CY309PC	Web Programming Lab	0	0	2	1
10	26EN03AU	Constitution of India	2 <sup>^</sup>	0	0	0
<b>Total</b>			<b>18+2<sup>^</sup></b>	<b>2</b>	<b>6</b>	<b>23</b>

<b>SEMESTER-IV</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	26CY401PC	Ethical Hacking and Penetration Testing	3	1	0	4
2	26CY402PC	Computer Networks	3	0	0	3
3	26CY403BS	Information Theory	3	0	0	3
4	26CY404PC	Applied Cryptography and Protocols	3	0	0	3
5	26CY405PC	Ethical Hacking and Penetration Testing Lab	0	0	2	1
6	26CY406PC	Applied Cryptography and Protocols Lab	0	0	2	1
7	26CY407PC	Cyber Range and Security Simulation Lab	0	1	2	2
8	26CY408EEC	Minor Project	0	0	6	3
9	26CH03AU	Environmental Science	2	0	0	0
<b>Total</b>			<b>14+2<sup>^</sup></b>	<b>0</b>	<b>12</b>	<b>20</b>

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### III Year

<b>SEMESTER-V</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	26CY501 PC	Digital Forensics	3	1	0	4
2	26CY502PC	Network Security and Firewalls	3	0	0	3
3	26CY503 PC	Secure Systems Programming	3	1	0	4
4	26CY504PC	Machine Learning for Cybersecurity	3	0	0	3
5	26CY505PC	Application Security (Web and Mobile)	3	0	0	3
6	26CY51XOE	Open Elective – I	3	0	0	3
7	26CY506PC	Network Security and Firewalls Lab	0	0	2	1
8	26CY507PC	Machine Learning for Cybersecurity Lab	0	0	2	1
9	26CY508PC	Application Security (Web and Mobile) Lab	0	0	2	1
<b>Total</b>			<b>18</b>	<b>1</b>	<b>6</b>	<b>23</b>

<b>SEMESTER-VI</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	26CY601PC	Threat Detection and Analytics	3	0	0	3
2	26CY61XPE	Professional Elective – I	3	0	0	3
3	26CY62XPE	Professional Elective – II	3	0	0	3
4	26CY62XOE	Open Elective – II	3	0	0	3
5	26CY602PC	Threat Detection and Analytics Lab	0	0	2	1
6	26CY603EEC	Industry / Research Lab Internship	--	--	12	6
<b>Total</b>			<b>12</b>	<b>0</b>	<b>14</b>	<b>19</b>

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**IV Year**

<b>SEMESTER-VII</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	26MS701HS	Engineering Economics	3	0	0	3
2	26CY702PC	Security Operations and Incident Response (SOC)	3	0	0	3
3	26CY703PC	DevSecOps	3	0	0	3
4	26EN704HS	Cyber Laws, Ethics and Governance	3	0	0	3
5	26CY73XOE	Open Elective - III	3	0	0	3
6	26CY73XPE	Professional Elective – III	3	0	0	3
7	26CY705HS	DevSecOps Lab	0	0	2	1
8	26CY706EEC	Capstone Project Stage – I and Seminar	0	0	4	2
<b>Total</b>			<b>18</b>	<b>0</b>	<b>6</b>	<b>21</b>

<b>SEMESTER-VIII</b>						
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
1	26CY84XPE	Professional Elective – IV	3	0	0	3
2	26CY801PC	Cloud Security	3	0	0	3
3	26CY802EEC	Capstone Project Stage – II	0	0	20	10
4	26MS06AU	Intellectual Property Rights	3	0	0	0
<b>Total</b>			<b>6+3<sup>^</sup></b>	<b>0</b>	<b>20</b>	<b>16</b>