

**Pokhara University**  
**Bachelor of Computer Engineering**  
Curriculum Structure- 2022

Year	I	Semester I				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	ELE 120	Basic Electrical Engineering	3	3	1	2
2	MTH 110	Calculus - I	3	3	2	0
3	ENG 110	Communication Techniques	2	2	2	0
4	CMP 122	Computer Workshop	1	0	0	3
5	ELX 110	Digital Logic	3	3	1	2
6	ELX 120	Electronics Devices and Circuits	3	3	1	2
7	CMP 124	Programming in C	3	3	1	3
<b>Sub Total</b>			<b>18</b>	<b>17</b>	<b>8</b>	<b>12</b>
Year	I	Semester II				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 150	Algebra and Geometry	3	3	2	0
2	CHM 110	Applied Chemistry	2	2	1	2
3	PHY 110	Applied Physics	3	3	1	2
4	MEC 116	Basic Engineering Drawing	1	0	0	3
5	CMP 160	Data Structure and Algorithms	3	3	1	3
6	ELE 172	Instrumentation	3	3	1	2
7	CMP 162	Object Oriented Programming in C++	3	3	1	3
<b>Sub Total</b>			<b>18</b>	<b>17</b>	<b>7</b>	<b>15</b>
Year	II	Semester III				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 210	Calculus - II	3	3	2	0
2	CMP 234	Computer Graphics	3	3	1	2
3	CMM 220	Data Communication	3	3	1	2
4	CMP 222	Database Management System	3	3	1	3
5	CMP 224	Microprocessor and ALP	3	3	1	2
6	CMP 232	Operating Systems	3	3	1	2
<b>Sub Total</b>			<b>18</b>	<b>18</b>	<b>7</b>	<b>11</b>
Year	II	Semester IV				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CMP 228	Advanced Programming with Java	3	3	1	3
2	MTH 250	Applied Mathematics	3	3	2	0
3	CMP 262	Computer Architecture	3	3	1	1
4	MTH 252	Numerical Methods	2	2	1	2
5	CMP 270	Research Fundamentals	2	2	0	2
6	CMP 264	Theory of Computation	3	3	1	0
<b>Sub Total</b>			<b>16</b>	<b>16</b>	<b>6</b>	<b>8</b>
Year	III	Semester V				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CMP 346	Artificial Intelligence	3	3	1	3
2	CMM 344	Digital Signal Analysis and Processing	3	3	1	2
3	ELX 320	Embedded System	2	2	1	2
4	MGT 320	Engineering Management	2	2	1	0
5	MTH 216	Probability and Statistics	2	2	2	0
6	CMP 348	Software Engineering	3	3	1	2
<b>Sub Total</b>			<b>15</b>	<b>15</b>	<b>7</b>	<b>9</b>
Year	III	Semester VI				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CMP 422	Compiler Design	2	2	2	2
2	CMP 344	Computer Networks	3	3	1	2
3		Elective I	3	3	1	2
4	CMP 362	Image Processing and Pattern Recognition	3	3	1	2
5	CMP 364	Machine Learning	3	3	1	2
6	PRJ 360	Project I	1	0	0	2
7	CMP 338	Simulation and Modeling	3	3	1	2
<b>Sub Total</b>			<b>18</b>	<b>17</b>	<b>7</b>	<b>14</b>
Year	IV	Semester VII				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CMP 424	Cloud Computing and Virtualization	3	3	1	2
2	CMP 360	Data Science and Analytics	3	3	1	2
3	MGT 250	Engineering Economics	3	3	1	0
4	MGT 332	Entrepreneurship and Professional Practice	2	2	1	0
5	CMP 426	Network and Cyber Security	3	3	1	2
6		Elective II	3	3	1	2
<b>Sub Total</b>			<b>14</b>	<b>14</b>	<b>5</b>	<b>6</b>
Year	IV	Semester VIII				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1		Elective III	3	3	1	2
2	INT 492	Internship	3	0	0	6
3	PRJ 452	Project II	3	0	0	6
<b>Sub Total</b>			<b>9</b>	<b>3</b>	<b>1</b>	<b>14</b>
<b>Total</b>			<b>126</b>	<b>117</b>	<b>48</b>	<b>89</b>