Pokhara University
Bachelor of Computer Engineering
Curriculum Structure- 2022

S. N.	Course Code	Subject	Credit	L	T	P	Remarks
Year	**I**	**Semester I**					
1	MTH 110	Calculus I	3	3	2	0	
2	ELX 110	Digital Logic	3	3	1	2	
3	CMP 124	Programming in C	3	3	1	3	
4	ELE 120	Basic Electrical Engineering	3	3	2	2	
5	CMP 122	Computer Workshop	1	0	0	3	
6	ENG 110	Communication Technique	2	2	1	0	
7	ELX 120	Electronics Devices and Circuits	3	3	2	2	
		Sub-total	**18**	**17**	**9**	**12**	
Year	**I**	**Semester II**					
1	MTH 150	Algebra and Geometry	3	3	2	0	
2	PHY 110	Applied Physics	3	3	2	2	
3	CHM 110	Applied Chemistry	2	2	1	2	
4	MEC 116	Basic Engineering Drawing	1	0	0	3	
5	CMP 162	Object Oriented Programming in C++	3	3	1	3	
6	CMP 160	Data Structure and Algorithm	3	3	1	3	
7	ELE 172	Instrumentation	3	3	1	2	
		Sub-total	**18**	**17**	**8**	**15**	
Year	**II**	**Semester III**					
1	MTH 210	Calculus II	3	3	2	0	
2	CMP 222	Database Management System	3	3	1	3	
3	CMP 232	Operating Systems	3	3	1	2	
4	CMP 224	Microprocessor and Assembly Language Programming	3	3	1	2	
5	CMP 234	Computer Graphics	3	3	1	2	
6	CMM 220	Data Communication	3	3	1	2	
		Sub-total	**18**	**18**	**7**	**11**	
Year	**II**	**Semester IV**					
1	MTH 250	Applied Mathematics	3	3	2	0	
2	MTH 252	Numerical Methods	2	2	1	2	
3	CMP 228	Advanced Programming with Java	3	3	1	3	
4	CMP 264	Theory of Computation	3	3	1	0	
5	CMP 262	Computer Architecture	3	3	1	1	
6	CMP 270	Research Fundamentals	2	2	0	2	
		Sub-total	**16**	**16**	**6**	**8**	
Year	**III**	**Semester V**					
1	MTH 216	Probability and Statistics	3	3	2	0	
2	ELX 320	Embedded System	2	2	1	3	
3	MGT 320	Engineering Management	2	2	1	0	
4	CMP 346	Artificial Intelligence	3	3	1	3	
5	CMM 344	Digital Signal Analysis and Processing	3	3	1	2	
6	CMP 348	Software Engineering	3	3	1	2	
		Sub-total	**16**	**16**	**7**	**10**	
Year	**III**	**Semester VI**					
1	CMP 441	Image Processing and Pattern Recognition	3	3	1	2	
2	CMP 364	Machine Learning	3	2	1	3	
3	CMP 422	Compiler Design	2	2	2	2	
4	CMP 344	Computer Networks	3	3	1	2	
5	CMP 338	Simulation and Modeling	3	3	1	2	
6		Elective I	3	3	1	2	
7	PRJ 360	Project I	2	0	0	2	
		Sub-total	**19**	**16**	**7**	**18**	
Year	**IV**	**Semester VII**					
1	MGT 332	Entrepreneurship and Professional Practice	2	2	1	0	
2	MGT 250	Engineering Economics	3	3	2	0	
3	CMP 426	Network and Cyber Security	3	3	1	2	
4	CMP 424	Cloud Computing and Virtualization	2	2	2	2	
5	CMP 360	Data Science and Analytics	2	2	1	2	
6		Elective II	3	3	1	2	
		Sub-total	**15**	**15**	**9**	**8**	
Year	**IV**	**Semester VIII**					
1		Elective III	3	3	1	2	
2	INT 492	Internship	3	0	0	6	
3	PRJ 452	Project II	3	0	0	6	
		Sub-total	**9**	**3**	**1**	**14**	
		Total Credits	**129**				