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	Calculus I	3	3	2	0	
2	ELX	Digital Logic	3	3	1	2	
3	CMP	Programming in C	3	3	1	3	
4	ELE 110	Basic Electrical Engineering	3	3	1	2	
5	CMP	Computer Workshop	1	0	0	3	
6	ENG	Communication Technique	2	2	1	0	
7	ELX 211	Electronics Devices and Circuits	3	3	1	2	
		Sub-total	**18**	**17**	**7**	**12**	
Year	**I**	**Semester II**					
1	MTH	Algebra and Geometry	3	3	2	0	
2	PHY	Applied Physics	3	3	1	2	
3	CHM	Applied Chemistry	2	2	1	2	
4	MEC	Basic Engineering Drawing	1	0	0	3	
5	CMP 115	Object Oriented Programming in C++	3	3	1	3	
6	CMP 225	Data Structure and Algorithm	3	3	1	3	
7	ELE	Instrumentation	3	3	1	2	
		Sub-total	**18**	**17**	**7**	**15**	
Year	**II**	**Semester III**					
1	MTH	Calculus II	3	3	2	0	
2	CMP 226	Database Management System	3	3	1	3	
3	CMP	Operating Systems	3	3	1	2	
4	ELX	Microprocessor and Assembly Language Programming	3	3	1	2	
5	CMP 241	Computer Graphics	3	3	1	2	
6	CMM 340	Data Communication	3	3	1	2	
		Sub-total	**18**	**18**	**7**	**11**	
Year	**II**	**Semester IV**					
1	MTH	Applied Mathematics	3	3	2	0	
2	MTH	Numerical Methods	2	2	1	2	
3	CMP	Advanced Programming with Java	3	3	1	3	
4	CMP 326	Theory of Computation	3	3	1	0	
5	CMP 332	Computer Architecture	3	3	1	1	
6		Research Fundamentals	2	2	0	2	
		Sub-total	**16**	**16**	**6**	**8**	
Year	**III**	**Semester V**					
1	MTH 220	Probability and Statistics	2	2	2	0	
2	ELX	Embedded System	2	2	1	3	
3	MGT	Engineering Management	2	2	1	0	
4	CMP	Artificial Intelligence	3	3	1	3	
5	CMM 442	Digital Signal Analysis and Processing	3	3	1	2	
6	CMP	Software Engineering	3	3	1	2	
		Sub-total	**15**	**15**	**7**	**10**	
Year	**III**	**Semester VI**					
1	CMP 441	Image Processing and Pattern Recognition	3	3	1	2	
2	CMP	Machine Learning	3	3	1	2	
3	CMP	Compiler Design	2	2	2	2	
4	CMP	Computer Networks	3	3	1	2	
5	CMP	Simulation and Modeling	3	3	1	2	
6		Elective I	3	3	1	2	
7		Project I	1	0	0	2	
		Sub-total	**18**	**17**	**7**	**14**	
Year	**IV**	**Semester VII**					
1		Entrepreneurship and Professional Practice	2	2	1	0	
2	ECO	Engineering Economics	3	3	1	0	
3	CMP	Network and Cyber Security	3	3	1	2	
4	CMP	Cloud Computing and Virtualization	3	3	1	2	
5	CMP	Data Science and Analytics	3	3	1	2	
6	CMP	Elective II	3	3	1	2	
		Sub-total	**17**	**17**	**6**	**8**	
Year	**IV**	**Semester VIII**					
1		Elective III	3	3	1	2	
2		Internship	3	0	0	6	
3		Project II	3	0	0	6	
		Sub-total	**9**	**3**	**1**	**14**	
		Total Credits	**129**				