Pokhara University Bachelor of Computer Engineering Curriculum Structure- 2022

Year	Course Code	Subject	Credit	L	т	Р	Remarks
rear	1	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 MTH 010	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 MTH 050	Semester IV					
1	MTH 250	Applied Mathematics	3	3	2	0	
3	MTH 252	Numerical Methods	3	3	1	3	
3 4	CMP 228 CMP 264	Advanced Programming with Java	3	3	1	0	
5		Theory of Computation	3	3	1	1	
6	CMP 262 CMP 270	Computer Architecture Research Fundamentals	2	2	0	2	
	CIVIF 270	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	
	CMP 348						
6		Software Engineering	3	3	1	2	
6	Civil 040	Software Engineering Sub-total					
6 Year	III		3	3	1	2	
		Sub-total	3	3	1	2	
Year	III	Sub-total Semester VI	3 16	3 16	7	2 10	
Year 1	III CMP 441	Sub-total Semester VI Image Processing and Pattern Recognition	3 16	3 16 3	1 7 1	2 10 2	
Year 1 2	CMP 441 CMP 364	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning	3 16 3 3	3 16 3 2	1 7 1 1	2 10 2 3	
Year 1 2 3	CMP 441 CMP 364 CMP 422	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design	3 16 3 3 2	3 16 3 2 2	1 7 1 1 2	2 10 2 3 2	
Year 1 2 3 4	CMP 441 CMP 364 CMP 422 CMP 344	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks	3 16 3 3 2 3	3 16 3 2 2 3	1 7 1 1 2 1	2 10 2 3 2 2	
Year 1 2 3 4 5	CMP 441 CMP 364 CMP 422 CMP 344	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling	3 16 3 3 2 3 3	3 16 3 2 2 3 3	1 7 1 1 2 1	2 10 2 3 2 2 2	
Year 1 2 3 4 5	CMP 441 CMP 364 CMP 422 CMP 344 CMP 338	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I	3 16 3 3 2 3 3 3	3 16 3 2 2 3 3 3	1 7 1 1 2 1 1	2 10 2 3 2 2 2 2	
Year 1 2 3 4 5	CMP 441 CMP 364 CMP 422 CMP 344 CMP 338	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I	3 16 3 3 2 3 3 3 3	3 16 3 2 2 3 3 3 0	1 7 1 1 2 1 1 1 0	2 10 2 3 2 2 2 2 2	
Year 1 2 3 4 5 6 7	CMP 441 CMP 364 CMP 422 CMP 344 CMP 338	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total	3 16 3 3 2 3 3 3 3	3 16 3 2 2 3 3 3 0	1 7 1 1 2 1 1 1 0	2 10 2 3 2 2 2 2 2	
Year 1 2 3 4 5 6 7	CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total	3 16 3 3 2 3 3 3 3 2 19	3 16 3 2 2 3 3 3 0 16	1 7 1 1 2 1 1 1 0 7	2 10 2 3 2 2 2 2 2 2 18	
Year 1 2 3 4 5 6 7 Year 1	CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360 IV MGT 332	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total Semester VII Entrepreneurship and Professional Practice	3 16 3 3 2 3 3 3 2 19	3 16 3 2 2 3 3 3 0 16	1 7 1 1 2 1 1 1 0 7	2 10 2 3 2 2 2 2 2 2 2 18	
Year 1 2 3 4 5 6 7 Year 1 2	CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360 IV MGT 332 MGT 250	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total Semester VII Entrepreneurship and Professional Practice Engineering Economics	3 16 3 3 2 3 3 3 2 19	3 16 3 2 2 3 3 3 0 16	1 7 1 1 2 1 1 1 0 7	2 10 2 3 2 2 2 2 2 2 18	
Year 1 2 3 4 5 6 7 Year 1 2 3	III CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360 IV MGT 332 MGT 250 CMP 426	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total Semester VII Entrepreneurship and Professional Practice Engineering Economics Network and Cyber Security	3 16 3 3 2 3 3 3 2 19	3 16 3 2 2 3 3 3 0 16	1 7 1 1 2 1 1 0 7	2 10 2 3 2 2 2 2 2 2 2 18	
Year 1 2 3 4 5 6 7 Year 1 2 3 4 4 5 6 7	III CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360 IV MGT 332 MGT 250 CMP 426 CMP 424	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total Semester VII Entrepreneurship and Professional Practice Engineering Economics Network and Cyber Security Cloud Computing and Virtualization	3 16 3 3 2 3 3 3 2 19	3 16 3 2 2 3 3 3 0 16	1	2 10 2 3 2 2 2 2 2 2 2 18	
Year 1 2 3 4 5 6 7 Year 1 2 3 4 5 5 6 7	III CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360 IV MGT 332 MGT 250 CMP 426 CMP 424	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total Semester VII Entrepreneurship and Professional Practice Engineering Economics Network and Cyber Security Cloud Computing and Virtualization Data Science and Analytics	3 16 3 3 2 3 3 3 2 19	3 16 3 2 2 3 3 3 0 16 2 3 3 2 2 2 3 3 2 2 2 3 2 2 2 3 2	1 1 2 1 1 1 0 7	2 10 2 3 2 2 2 2 2 2 18 0 0 2 2 2	
Year 1 2 3 4 5 6 7 Year 1 2 3 4 5 5 6 7	III CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360 IV MGT 332 MGT 250 CMP 426 CMP 424	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total Semester VII Entrepreneurship and Professional Practice Engineering Economics Network and Cyber Security Cloud Computing and Virtualization Data Science and Analytics Elective II	3 16 3 3 2 3 3 3 2 19 2 2 3 3 3 2 2 19	3 16 3 2 2 3 3 3 0 16 2 3 3 2 2 3 3 2 3 3 3 3 2 3 3 3 3 3 3	1 7 1 1 2 1 1 0 7 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1	2 10 2 3 2 2 2 2 2 2 18 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Year 1 2 3 4 5 6 7 Year 1 2 3 4 5 6 6 6	III CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360 IV MGT 332 MGT 250 CMP 426 CMP 360	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total Semester VII Entrepreneurship and Professional Practice Engineering Economics Network and Cyber Security Cloud Computing and Virtualization Data Science and Analytics Elective II Sub-total	3 16 3 3 2 3 3 3 2 19 2 2 3 3 3 2 2 19	3 16 3 2 2 3 3 3 0 16 2 3 3 2 2 3 3 2 3 3 3 3 2 3 3 3 3 3 3	1 7 1 1 2 1 1 0 7 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1	2 10 2 3 2 2 2 2 2 2 18 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Year 1 2 3 4 5 6 7 Year 1 2 3 4 5 6 Year	III CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360 IV MGT 332 MGT 250 CMP 426 CMP 360	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total Semester VII Entrepreneurship and Professional Practice Engineering Economics Network and Cyber Security Cloud Computing and Virtualization Data Science and Analytics Elective II Sub-total Semester VIII	3 16 3 3 2 3 3 3 2 19 2 3 3 2 2 3 15	3 16 3 2 2 3 3 0 16 2 3 3 0 16 2 3 3 15	1 7 1 1 2 1 1 0 7 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1	2 10 2 3 2 2 2 2 2 2 18 0 0 0 2 2 2 2 2 2 8	
Year 1 2 3 4 5 6 7 Year 1 2 3 4 5 6 Vear 1	III CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360 IV MGT 332 MGT 250 CMP 426 CMP 424 CMP 360	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total Semester VII Entrepreneurship and Professional Practice Engineering Economics Network and Cyber Security Cloud Computing and Virtualization Data Science and Analytics Elective II Sub-total Semester VIII Elective III	3 16 3 3 2 3 3 3 2 19 2 3 3 2 2 3 15	3 16 3 2 2 3 3 0 16 2 3 3 0 16 2 3 3 15	1 7 1 1 2 1 1 0 7 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 2 1	2 10 2 3 2 2 2 2 2 2 18 0 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Year 1 2 3 4 5 6 7 Year 1 2 3 4 5 6 Vear 1 2	III CMP 441 CMP 364 CMP 422 CMP 344 CMP 338 PRJ 360 IV MGT 332 MGT 250 CMP 426 CMP 424 CMP 360 IV	Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I Sub-total Semester VII Entrepreneurship and Professional Practice Engineering Economics Network and Cyber Security Cloud Computing and Virtualization Data Science and Analytics Elective II Sub-total Semester VIII Elective III Internship	3 16 3 3 2 3 3 3 2 19 2 3 3 2 2 3 15	3 16 3 2 2 3 3 0 16 2 3 3 0 16 2 3 3 15	1 7 1 1 2 1 1 0 7 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1	2 10 2 3 2 2 2 2 2 2 18 0 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	