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

S. N.	Course Code	Subject	Credit	L	Т	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	
<b>X</b> 7		Sub-total	18	17	7	12	
Year 1	I MTH	Semester II Algebra and Geometry	3	3	2	0	
2	PHY	Applied Physics	3	3	1	2	
3	CHM		2	2	1	2	
4	MEC	Applied Chemistry	1	0	0	3	
5	CMP 115	Basic Engineering Drawing Object Oriented Programming in C++	3	3	1	3	
6	CMF 113 CMP 225		3	3	1	3	
7	ELE	Data Structure and Algorithm  Instrumentation	3	3	1	2	
	ELE	Sub-total	18	17	7	15	
Year	П	Semester III	10	17	,	13	
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	
	CIVIIVI 540	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 Sub-total	16	16	6	8	
Year	III	Semester V					
1	MTH 220	Probability and Statistics	2	2	2	0	
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2	ELX	Embedded System	2	2	1	3	
3	ELX MGT	Engineering Management	2	2	1	0	
3 4	ELX MGT CMP	Engineering Management Artificial Intelligence	2 3	2 3	1	0 3	
3 4 5	ELX MGT CMP CMM 442	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing	2 3 3	3 3	1 1 1	0 3 2	
3 4	ELX MGT CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering	2 3 3 3	2 3 3 3	1 1 1 1	0 3 2 2	
3 4 5 6	ELX MGT CMP CMM 442 CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering Sub-total	2 3 3	3 3	1 1 1	0 3 2	
3 4 5 6 Year	ELX MGT CMP CMM 442 CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering Sub-total Semester VI	2 3 3 3 15	2 3 3 3 15	1 1 1 1 7	0 3 2 2 10	
3 4 5 6	ELX MGT CMP CMM 442 CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering Sub-total Semester VI Image Processing and Pattern Recognition	2 3 3 3 15	2 3 3 3 15	1 1 1 1	0 3 2 2 10	
3 4 5 6 <b>Year</b> 1 2	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning	2 3 3 3 15	2 3 3 3 15	1 1 1 1 7	0 3 2 2 10	
3 4 5 6 <b>Year</b> 1 2 3	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design	2 3 3 3 15	2 3 3 3 15	1 1 1 7 1 1 1 1 2	0 3 2 2 10 2 2 2 2	
3 4 5 6 <b>Year</b> 1 2 3 4	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks	2 3 3 3 15	2 3 3 3 15 3 2 3	1 1 1 7 1 1 1 2	0 3 2 2 10 2 2 2 2 2	
3 4 5 6 <b>Year</b> 1 2 3 4 5	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling	2 3 3 3 15 3 3 2 3 3	2 3 3 3 15 3 2 3 3	1 1 1 7 1 1 1 2 1	0 3 2 2 10 2 2 2 2 2 2 2 2	
3 4 5 6 <b>Year</b> 1 2 3 4	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I	2 3 3 3 15	2 3 3 3 15 3 2 3 3 3	1 1 1 7 1 1 1 2 1 1	0 3 2 2 10 2 2 2 2 2 2 2 2 2	
3 4 5 6 <b>Year</b> 1 2 3 4 5	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling	2 3 3 3 15 3 2 3 3 3 3	2 3 3 3 15 3 2 3 3	1 1 1 7 1 1 1 2 1	0 3 2 2 10 2 2 2 2 2 2 2 2	
3 4 5 6 <b>Year</b> 1 2 3 4 5	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering Sub-total Semester VI Image Processing and Pattern Recognition Machine Learning Compiler Design Computer Networks Simulation and Modeling Elective I Project I	2 3 3 3 15 3 2 3 3 3 3 1	2 3 3 3 15 3 2 3 3 3 0	1 1 1 7 1 1 2 1 1 1 0	0 3 2 2 10 2 2 2 2 2 2 2 2 2 2	
3 4 5 6 <b>Year</b> 1 2 3 4 5 6	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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	2 3 3 3 15 3 2 3 3 3 3 1	2 3 3 3 15 3 2 3 3 3 0	1 1 1 7 1 1 2 1 1 1 0	0 3 2 2 10 2 2 2 2 2 2 2 2 2 2	
3 4 5 6 Year 1 2 3 4 5 6 7	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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	2 3 3 3 15 3 2 3 3 3 1 18	2 3 3 3 15 3 2 3 3 3 0 17	1 1 1 7 1 1 1 2 1 1 1 0 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 14	
3 4 5 6 <b>Year</b> 1 2 3 4 5 6 7 <b>Year</b>	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP IV	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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	2 3 3 3 15 3 2 3 3 3 1 18	2 3 3 3 15 3 2 3 3 3 0 17	1 1 1 7 1 1 2 1 1 1 0 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 14	
3 4 5 6  Year 1 2 3 4 5 6 7  Year 1 2 3 4 4 5 6 7  4 4 4 4 4 4	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP IV	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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	2 3 3 3 15 3 2 2 3 3 3 1 18	2 3 3 3 15 3 2 3 3 3 0 17	1 1 1 1 7 1 1 2 1 1 1 0 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 14	
3 4 5 6 <b>Year</b> 1 2 3 4 5 6 7 <b>Year</b> 1 2 3	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP  CMP CMP CMP CMP CMP CM	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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	2 3 3 3 15 3 2 3 3 3 1 18 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 15 3 2 3 3 3 0 17	1 1 1 7 1 1 1 2 2 1 1 1 0 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 14	
3 4 5 6  Year 1 2 3 4 5 6 7  Year 1 2 3 4 4 5 6 7  4 4 4 4 4	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP  IV  ECO CMP CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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	2 3 3 3 15 3 2 3 3 3 1 18 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 15 3 2 3 3 3 0 17	1 1 1 1 7 1 1 2 1 1 1 0 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 2 14	
3 4 5 6 Year 1 2 3 4 5 6 7 Year 1 2 3 4 5 6	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP  CMP CMP CMP CMP CMP  CMP  CMP  CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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	2 3 3 3 15 3 2 3 3 3 1 18 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 15 3 2 3 3 3 0 17	1 1 1 1 7 1 1 2 1 1 1 0 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
3 4 5 6  Year 1 2 3 4 5 6 7  Year 1 2 3 4 5 6 7  Year 1 2 3 4 5 6  Year	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP  CMP CMP CMP CMP CMP CM	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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	2 3 3 3 15 3 2 3 3 3 1 18 2 2 3 3 3 3 3 15	2 3 3 3 15 3 2 3 3 3 0 17	1 1 1 1 7 1 2 1 1 1 0 7 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
3 4 5 6  Year 1 2 3 4 5 6 7  Year 1 2 3 4 5 6 7  Year 1 2 3 4 5 6	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP  CMP CMP CMP CMP CMP  CMP  CMP  CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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	2 3 3 3 15 3 2 3 3 3 1 18 2 3 3 3 3 3 15 3 3 15 3 3 3 3 3 15 3 3 3 3	2 3 3 3 15 3 2 3 3 3 0 17 2 3 3 3 3 3 17	1 1 1 1 7 1 1 2 1 1 1 0 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
3 4 5 6  Year 1 2 3 4 5 6 7  Year 1 2 3 4 5 6 7  Year 1 2 3 4 5 6 7	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP  CMP CMP CMP CMP CMP  CMP  CMP  CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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 Elective III	2 3 3 3 15 3 2 3 3 3 1 18 2 3 3 3 3 3 15 7 18 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 15 3 2 3 3 3 0 17 2 3 3 3 3 3 15 3 0 17 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 7 1 1 2 1 1 1 0 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
3 4 5 6  Year 1 2 3 4 5 6 7  Year 1 2 3 4 5 6 7  Year 1 1 2 3 4 5 6	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP  CMP CMP CMP CMP CMP  CMP  CMP  CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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 Project II	2 3 3 3 15 3 2 3 3 3 1 18 2 3 3 3 3 3 15 3 3 3 15 3 3 3 3 3 3 3 3 3	2 3 3 3 15 3 2 3 3 3 0 17 2 3 3 3 3 3 0 17 2 3 3 3 3 0 17 17 17 17 17 17 17 17 17 17 17 17 17	1 1 1 7 1 1 2 1 1 1 0 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
3 4 5 6  Year 1 2 3 4 5 6 7  Year 1 2 3 4 5 6 7  Year 1 2 3 4 5 6 7	ELX MGT CMP CMM 442 CMP  III CMP 441 CMP CMP CMP CMP  CMP CMP CMP CMP CMP  CMP  CMP  CMP	Engineering Management Artificial Intelligence Digital Signal Analysis and Processing Software Engineering  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 Elective III	2 3 3 3 15 3 2 3 3 3 1 18 2 3 3 3 3 3 15 7 18 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 3 15 3 2 3 3 3 0 17 2 3 3 3 3 3 15 3 0 17 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 7 1 1 2 1 1 1 0 7	0 3 2 2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

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