


Pokhara University
Bachelor of Civil Engineering, 2022

Year : I		Semester I				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CHM 110	Applied Chemistry	2	2	1	2
2	PHY 110	Applied Physics	3	3	1	2
3	MTH 110	Calculus I	3	3	2	0
4	ENG 110	Communication Techniques	2	2	2	0
5	CMP 112	Computer Programming	3	3	1	2
6	MEC 112	Engineering Drawing	2	0	0	6
Sub-total			15	13	7	12
Year : I		Semester II				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 150	Algebra and Geometry	3	3	2	0
2	MEC 150	Applied Mechanics	4	4	2	0
3	ELE 112	Basic Electrical and Electronics Engineering	3	3	2	2
4	CVL 110	Civil Engineering Materials	2	2	0	2
5	CVL 112	Civil Engineering Workshop	1	0	0	3
6	GTE 150	Engineering Geology	3	3	0	2
7	MEC 114	Introduction to Energy Engineering	2	2	1	1
Sub-total			18	17	7	10
Year : II		Semester III				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	ARC 150	Building Technology	2	2	0	2
2	MTH 210	Calculus II	3	3	2	0
3	WRE 212	Fluid Mechanics	3	3	2	2
4	MTH 252	Numerical Methods	2	2	1	2
5	STR 216	Strength of Materials	3	3	2	1
6	CVL 216	Surveying I	3	3	1	3
Sub-total			16	16	8	10
Year : II		Semester IV				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MGT 250	Engineering Economics	3	3	1	0
2	WRE 250	Hydraulics	3	3	2	2
3	MTH 216	Probability and Statistics	2	2	2	0
4	GTE 252	Soil Mechanics	3	3	2	2
5	STR 252	Structural Analysis I	3	3	2	1
6	CVL 252	Surveying II	3	3	1	3
Sub-total			17	17	10	8
Year : III		Semester V				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	WRE 310	Engineering Hydrology	2	2	2	1
2	CVL 318	Estimating and Valuation	3	3	2	0
3	GTE 310	Foundation Engineering	3	3	2	1
4	STR 314	Structural Analysis II	3	3	2	1
5	TRP 310	Transportation Engineering I	3	3	1	1
6	ENV 310	Water Supply Engineering	3	3	2	1
Sub-total			17	17	11	5
Year : III		Semester VI				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CVL 350	Project I	1	0	0	2
2	STR 312	Concrete Technology and Masonry Structure	3	3	2	2
3	STR 354	Design of Steel and Timber Structure	3	3	2	0
4		Elective I	3	3	0	0
5	WRE 352	Irrigation and Drainage Engineering	3	3	2	0
6	ENV 352	Sanitary Engineering	3	3	2	1
7	CVL 316	Survey Field Project	1	0	0	2
8	TRP 352	Transportation Engineering II	3	3	1	1
Sub-total			20	18	9	8
Year : IV		Semester VII				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CVL 441	Project II	3	0	0	6
2	CVL 412	Construction Project Management	3	3	2	0
3	STR 352	Design of R.C.C. Structures	3	3	2	1
4		Elective II	3	3	0	0
5	CVL 416	Engineering Professional Practice	2	2	0	0
6	WRE 410	Hydropower Engineering	3	3	2	1
Sub-total			17	14	6	8
Year : IV		Semester VIII				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1		Elective III	3	3	0	0
2	INT 484	Internship	6	0	0	12
Sub-total			9	3	0	12
Total			129	115	58	73


 Faculty of Science and Technology
 Pokhara University
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Pokhara University
BE Civil for Diploma Holder 2022
Curriculum Structure

Year	Semester I					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 109	Basic Engineering Mathematics	3	3	2	0
2	PHY 109	Basic Engineering Physics	1	1	2	2
3	CHM 109	Basic Engineering Chemistry	1	1	2	2
4	CMP 109	Basic of Computer and Programming	1	1	2	2
5	ENG 110	Communication Technique	2	2	2	0
6	CVL 109	Engineering Survey and Quantitative Technique	1	1	2	2
			9	9	12	8
Year	Semester II					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 110	Calculus I	3	3	2	0
2	CHM 110	Applied Chemistry	2	2	1	2
3	PHY 110	Applied Physics	3	3	1	2
4	CMP 112	Computer Programming	3	3	1	2
5	MEC 150	Applied Mechanics	4	4	2	0
6	CVL 112	Civil Engineering Workshop	1	1	0	3
			16	16	7	9
Year	Semester III					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 150	Algebra and Geometry	3	3	2	0
2	CVL 110	Civil Engineering Materials	2	2	0	2
3	GTE 150	Engineering Geology	3	3	0	2
4	CVL 217	Advanced Surveying	3	3	1	3
5	ARC 150	Building Technology	2	2	0	2
6	WRE 212	Fluid Mechanics	3	3	2	2
			16	16	5	11
Year	Semester IV					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 210	Calculus II	3	3	2	0
2	STR 216	Strength of Materials	3	3	2	1
3	WRE 250	Hydraulics	3	3	2	2
4	MTH 216	Probability and Statistics	2	2	2	0
5	ELE 112	Basic Electrical and Electronics Engineering	3	3	2	2
6	CVL 217	Survey Project work	2	0	0	4
			16	14	10	9
Year	Semester V					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 252	Numerical Methods	2	2	1	2
2	ENV 310	Water Supply Engineering	3	3	2	1
3	WRE 310	Engineering Hydrology	2	2	2	1
4	GTE 252	Soil Mechanics	3	3	2	2
5	STR 252	Structural Analysis I	3	3	2	1
			13	13	9	7
Year	Semester VI					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	STR 314	Structural Analysis II	3	3	2	1
2	ENV 352	Sanitary Engineering	3	3	2	1
3	STR 312	Concrete Technology and Masonry structure	3	3	2	2
4	CVL	Elective I	3	3	0	0
5	GTE 310	Foundation Engineering	3	3	2	1
			15	15	8	5
Year	Semester VII					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	WRE 352	Irrigation and Drainage Engineering	3	3	2	0
2	STR 354	Design of Steel and Timber Structures	3	3	2	0
3	TRP 310	Transportation Engineering I	3	3	1	1
4	CVL 318	Estimating and Valuation	3	3	2	0
5	CVL	Elective II	3	3	0	0
			15	15	7	1
Year	Semester VIII					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	TRP 352	Transportation Engineering II	3	3	1	1
2	WRE 410	Hydropower Engineering	3	3	2	1
3	MGT 250	Engineering Economics	3	3	1	0
4	CVL	Elective III	3	3	0	0
5	STR 352	Design of RCC Structures	3	3	2	1
			15	15	6	3
Year	Semester IX					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CVL 416	Engineering Professional Practice	2	2	0	0
2	CVL 412	Construction Project Management	3	3	2	0
3	CVL 491	Final Project and Internship	5	0	0	10
			10	5	2	10
Total			125			



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Pokhara University
Bachelor of Civil and Rural Engineering, 2022

Year : I		Semester I					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical	
1	ELE 112	Basic Electrical and Electronics Engineering	3	3	2	2	
2	MTH 110	Calculus I	3	3	2	0	
3	CVL 110	Civil Engineering Materials	2	2	0	2	
4	CVL 112	Civil Engineering Workshop	1	0	0	3	
5	ENG 110	Communication Techniques	2	2	2	0	
7	CMP 112	Computer Programming	3	3	1	2	
6	MEC 114	Introduction to Energy Engineering	2	2	1	1	
		Sub-total	16	15	8	10	
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	MEC 150	Applied Mechanics	4	4	2	0	
4	PHY 110	Applied Physics	3	3	1	2	
5	ARC 150	Building Technology	2	2	0	2	
4	MEC 112	Engineering Drawing	2	0	0	6	
		Sub-total	16	14	6	12	
Year : II		Semester III					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical	
1	MTH 210	Calculus II	3	3	2	0	
2	GTE 150	Engineering Geology	3	3	0	2	
3	WRE 212	Fluid Mechanics	3	3	2	2	
4	MTH 214	Statistics and Numerical Method	3	3	2	2	
5	STR 216	Strength of Materials	3	3	2	1	
6	CVL 216	Surveying I	3	3	1	3	
		Sub-total	18	18	9	10	
Year : II		Semester IV					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical	
1	MGT 250	Engineering Economics	3	3	1	0	
2	WRE 250	Hydraulics	3	3	2	2	
3	CVR 250	Rural Infrastructure Engineering	3	3	1	0	
4	GTE 252	Soil Mechanics	3	3	2	2	
5	STR 252	Structural Analysis I	3	3	2	1	
6	CVL 252	Surveying II	3	3	1	3	
		Sub-total	18	18	9	8	
Year : III		Semester V					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical	
1	STR 312	Concrete Technology and Masonry Structure	3	3	2	2	
2	WRE 310	Engineering Hydrology	2	2	2	1	
3	GTE 310	Foundation Engineering	3	3	2	1	
4	STR 314	Structural Analysis II	3	3	2	1	
5	CVL 316	Survey Field Project	1	0	0	2	
6	TRP 310	Transportation Engineering I	3	3	1	1	
7	ENV 310	Water Supply Engineering	3	3	2	1	
		Sub-total	18	17	11	9	
Year : III		Semester VI					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical	
1	STR 352	Design of R.C.C. Structures	3	3	2	1	
2		Elective I	3	3	0	0	
3	CVL 318	Estimating and Valuation	3	3	2	0	
4	WRE 352	Irrigation and Drainage Engineering	3	3	2	0	
5	CVR 350	Project I	1	0	0	2	
6	ENV 352	Sanitary Engineering	3	3	2	1	
7	TRP 352	Transportation Engineering II	3	3	1	1	
		Sub-total	19	18	9	5	
Year : IV		Semester VII					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical	
1	CVL 412	Construction Project Management	3	3	2	0	
2	STR 354	Design of Steel and Timber Structure	3	3	2	0	
3		Elective II	3	3	0	0	
4	CVL 416	Engineering Professional Practice	2	2	0	0	
5	WRE 410	Hydropower Engineering	3	3	2	1	
6	CVR 441	Project II	3	0	0	6	
		Sub-total	17	14	6	7	
Year : IV		Semester VIII					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical	
1		Elective III	3	3	0	0	
2	INT 486	Internship	6	0	0	12	
		Sub-total	9	3	0	12	
		Total	131				



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Pokhara University
BE Civil for Diploma Holder 2022
Curriculum Structure

Year	Semester I					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 109	Basic Engineering Mathematics	3	3	2	0
2	PHY 109	Basic Engineering Physics	1	1	2	2
3	CHM 109	Basic Engineering Chemistry	1	1	2	2
4	CMP 109	Basic of Computer and Programming	1	1	2	2
5	ENG 110	Communication Technique	2	2	2	0
6	CVL 109	Engineering Survey and Quantitative Technique	1	1	2	2
			9	9	12	8
Year	Semester II					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 110	Calculus I	3	3	2	0
2	CHM 110	Applied Chemistry	2	2	1	2
3	PHY 110	Applied Physics	3	3	1	2
4	CMP 112	Computer Programming	3	3	1	2
5	MEC 150	Applied Mechanics	4	4	2	0
6	CVL 112	Civil Engineering Workshop	1	1	0	3
			16	16	7	9
Year	Semester III					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 150	Algebra and Geometry	3	3	2	0
2	CVL 110	Civil Engineering Materials	2	2	0	2
3	GTE 150	Engineering Geology	3	3	0	2
4	CVL 217	Advanced Surveying	3	3	1	3
5	ARC 150	Building Technology	2	2	0	2
6	WRE 212	Fluid Mechanics	3	3	2	2
			16	16	5	11
Year	Semester IV					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 210	Calculus II	3	3	2	0
2	STR 216	Strength of Materials	3	3	2	1
3	WRE 250	Hydraulics	3	3	2	2
4	MTH 216	Probability and Statistics	2	2	2	0
5	ELE 112	Basic Electrical and Electronics Engineering	3	3	2	2
6	CVL 217	Survey Project work	2	0	0	4
			16	14	10	9
Year	Semester V					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 252	Numerical Methods	2	2	1	2
2	ENV 310	Water Supply Engineering	3	3	2	1
3	WRE 310	Engineering Hydrology	2	2	2	1
4	GTE 252	Soil Mechanics	3	3	2	2
5	STR 252	Structural Analysis I	3	3	2	1
			13	13	9	7
Year	Semester VI					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	STR 314	Structural Analysis II	3	3	2	1
2	ENV 352	Sanitary Engineering	3	3	2	1
3	STR 312	Concrete Technology and Masonry structure	3	3	2	2
4	CVL	Elective I	3	3	0	0
5	GTE 310	Foundation Engineering	3	3	2	1
			15	15	8	5
Year	Semester VII					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	WRE 352	Irrigation and Drainage Engineering	3	3	2	0
2	STR 354	Design of Steel and Timber Structures	3	3	2	0
3	TRP 310	Transportation Engineering I	3	3	1	1
4	CVL 318	Estimating and Valuation	3	3	2	0
5	CVL	Elective II	3	3	0	0
			15	15	7	1
Year	Semester VIII					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	TRP 352	Transportation Engineering II	3	3	1	1
2	WRE 410	Hydropower Engineering	3	3	2	1
3	MGT 250	Engineering Economics	3	3	1	0
4	CVL	Elective III	3	3	0	0
5	STR 352	Design of RCC Structures	3	3	2	1
			15	15	6	3
Year	Semester IX					
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CVL 416	Engineering Professional Practice	2	2	0	0
2	CVL 412	Construction Project Management	3	3	2	0
3	CVL 491	Final Project and Internship	5	0	0	10
			10	5	2	10
Total			125			



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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	PHY 110	Applied Physics	3	3	1	2
5	CMP 122	Computer Workshop	1	0	0	3
6	CMP 124	Programming in C	3	3	1	3
Sub Total			15	14	7	10
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	MEC 116	Basic Engineering Drawing	1	0	0	3
4	ELX 120	Electronics Devices and Circuits	3	3	1	2
5	CMP 160	Data Structure and Algorithms	3	3	1	3
6	CMP 162	Object Oriented Programming in C++	3	3	1	3
Sub Total			15	14	6	13
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	ELX 110	Digital Logic	3	3	1	2
4	CMP 222	Database Management System	3	3	1	3
5	CMP 228	Advanced Programming with Java	3	3	1	3
6	CMP 232	Operating Systems	3	3	1	2
Sub Total			18	18	7	12
Year II						
Semester IV						
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 250	Applied Mathematics	3	3	2	0
2	CMP 224	Microprocessor and ALP	3	3	1	2
3	ELE 172	Instrumentation	3	3	1	2
4	CMP 348	Software Engineering	3	3	1	2
5	CMM 220	Data Communication	3	3	1	2
6	CMP 264	Theory of Computation	3	3	1	0
Sub Total			18	42	16	25
Year III						
Semester V						
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CMP 346	Artificial Intelligence	3	3	1	3
2	CMP 344	Computer Networks	3	3	1	2
3	CMP 262	Computer Architecture	3	3	1	1
4	MTH 252	Numerical Methods	2	2	1	2
5	MGT 320	Engineering Management	2	2	1	0
6	CMP 338	Simulation and Modeling	3	3	1	2
7	MTH 216	Probability and Statistics	2	2	2	0
Sub Total			18	18	8	10
Year III						
Semester VI						
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CMP 270	Research Fundamentals	2	2	0	2
2	CMP 360	Compiler Design	2	2	2	2
3	CMM 344	Digital Signal Analysis and Processing	3	3	1	2
4	CMP 426	Network and Cyber Security	3	3	1	2
5	ELX 320	Embedded System	2	2	1	2
6	CMP 364	Machine Learning	3	3	1	2
7		Elective I	3	3	1	2
Sub Total			18	51	22	31
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 422	Data Science and Analytics	2	2	1	2
3	MGT 250	Engineering Economics	3	3	1	0
4	CMP 362	Image Processing and Pattern Recognition	3	3	1	2
5	MGT 332	Entrepreneurship and Professional Practice	2	2	1	0
6		Elective II	3	3	1	2
7	PRJ 360	Project I	2	0	0	2
Sub Total			18	16	6	10
Year IV						
Semester VIII						
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	INT 492	Internship	3	0	0	6
2	PRJ 452	Project II	3	0	0	6
3		Elective III	3	3	1	2
Sub Total			9	3	1	14
Total			129			

Pokhara University
Bachelor of Computer Engineering, 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
Sub Total			18	17	8	12
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
Sub Total			18	17	7	15
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
Sub Total			18	18	7	11
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
Sub Total			16	16	6	8
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
Sub Total			15	15	7	9
Year III		Semester VI				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	CMP 344	Computer Networks	3	3	1	2
2	CMP 360	Compiler Design	2	2	2	2
3	CMP 362	Image Processing and Pattern Recognition	3	3	1	2
4	CMP 364	Machine Learning	3	3	1	2
5	PRJ 360	Project I	1	0	0	2
6	CMP 338	Simulation and Modeling	3	3	1	2
7		Elective I	3	3	1	2
Sub Total			18	17	7	14
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 422	Data Science and Analytics	2	2	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
Sub Total			16	16	6	8
Year IV		Semester VIII				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	INT 492	Internship	3	0	0	6
2	PRJ 452	Project II	3	0	0	6
3		Elective III	3	3	1	2
Sub Total			9	3	1	14
Total			128			

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Pokhara University
Bachelor of Electrical and Electronics Engineering, 2022

Year I		Semester I				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	PHY 110	Applied Physics	3	3	1	2
2	ELE 130	Basic Electrical Circuits	3	3	1	2
3	MTH 110	Calculus I	3	3	2	0
4	CMP 112	Computer Programming	3	3	1	2
5	ELE 132	Electrical Installation Practice and Safety	2	2	1	2
6	MEC 116	Basic Engineering Drawing	1	0	0	3
7	MEC 136	Engineering Workshop	1	0	0	3
Sub-total			16	14	6	14
Year I		Semester II				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 150	Algebra and Geometry	3	3	2	0
2	MEC 170	Basic Mechanical Engineering	3	3	1	0
3	ENG 110	Communication Techniques	2	2	2	0
4	ELE 174	Electrical Engineering Material	3	3	1	0
5	ELX 174	Electronic Devices	3	3	1	2
6	ELE 178	Network Theory	3	3	1	2
Sub-total			17	17	8	4
Year II		Semester III				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 210	Calculus II	3	3	2	0
2	ELX 110	Digital Logic	3	3	1	2
3	ELE 230	Electrical Machine I	3	3	1	2
4	ELX 234	Electromagnetic Fields and Waves	3	3	1	0
5	ELX 232	Electronic Circuits	3	3	1	2
6	ELE 172	Instrumentation	3	3	1	2
Sub-total			18	18	7	8
Year II		Semester IV				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MTH 250	Applied Mathematics	3	3	2	0
2	ELE 270	Control System	3	3	1	2
3	ELE 272	Electrical Machine II	2	2	1	2
4	ELX 270	Microprocessors	3	3	1	2
5	MTH 252	Numerical Methods	2	2	1	2
6	ELE 274	Transmission and Distribution Systems	3	3	1	0
Sub-total			16	16	7	8
Year III		Semester V				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	ELE 334	Control System Design	2	2	1	2
2	ELE 336	Electrical Machine Design	3	3	2	0
3	MGT 250	Engineering Economics	3	3	1	0
4	ELE 342	Power Electronics	3	3	1	2
5	ELE 340	Power System Analysis	3	3	1	2
6	ELX 330	Signals and System	3	3	1	2
Sub-total			17	17	7	8
Year III		Semester VI				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	MGT 320	Engineering Management	2	2	1	0
2	ELE 372	High Voltage Engineering	3	3	1	0
3	MTH 216	Probability and Statistics	2	2	2	0
4	ELE 374	Switch Gear & Protection	3	3	1	2
5	ELE 378	Utilization of Electrical Energy	3	3	2	0
6		Elective I	3	3	1	0
Sub-total			16	16	8	2
Year IV		Semester VII				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1	ELX 370	Modern Communication System	3	3	1	0
2	ELE 434	Power Plant Technology	3	3	1	0
3	ELE 436	Renewable Energy and Grid Integration	3	3	0	2
4	ELE 338	Research Methodology	2	2	0	0
5	ELE 440	Transmission and Distribution Design	3	3	0	2
6		Elective II	3	3	1	0
Sub-total			17	17	3	4
Year IV		Semester VIII				
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
1		Elective III	3	3	1	0
2	INT 488	Internship	3	0	0	6
3	PRJ 452	Major Project	3	0	0	6
Sub-total			9	3	1	12
Total			126			



Pokhara University
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S.N.	Course Code	Subject	Credit	Lecture	Tutorial	Practical
Year I, Sem I						
1	PHY 110	Applied Physics	3	3	1	2
2	ELE 130	Basic Electrical Circuits	3	3	1	2
3	MTH 115	Engineering Mathematics I	3	3	2	0
4	CMP 112	Computer Programming	3	3	1	2
5	ELX 110	Digital Logic	3	3	1	2
6	ELX 111	Electronics Engineering Workshop	1	0	0	3
		Sub-total	16			
Year I, Sem II						
1	MTH 151	Engineering Mathematics II	3	3	2	0
2	ELX 152	Electromagnetic Waves and Propagation	3	3	2	2
3	ELX 120	Electronic Devices and Circuits	3	3	2	2
4	ENG 110	Communication Techniques	2	2	2	0
5	CMP 164	Object Oriented Programming with Java	3	3	1	2
6	MEC 116	Engineering Drawing	1	0	0	3
		Sub-total	15			
Year II, Sem III						
1	MTH 211	Engineering Mathematics III	3	3	2	0
2	CMP 160	Data Structure and Algorithms	3	3	1	2
3	CMP 222	Database Management System	3	3	1	2
4	ELX 176	Microprocessors and Computer Architecture	3	3	1	2
5	ELX 211	Instrumentation & Sensor Technology	3	3	1	2
		Sub-total	15			
Year II, Sem IV						
1	ELX 330	Signals and Systems	3	3	1	2
2	MTH 216	Probability and Statistics	3	3	1	0
3	CMP168	Web Technology	3	3	1	2
4	MTH 252	Numerical Methods	3	3	1	2
5	CMP 348	Software Engineering	3	3	1	2
6	MGT 250	Engineering Economics	2	2	1	0
		Sub-total	17			
Year III, Sem V						
1	CMP 346	Artificial Intelligence	3	3	1	3
2	CMM 311	Communication System Engineering	3	3	2	2
3	CMM 422	Digital Signal Processing	3	3	1	2
4	ELX 320	Embedded System	3	3	1	2
5	CMP 331	Mobile Application Development	3	3	1	2
6	PRJ 341	Mini Project	1	0	0	2
		Sub-total	16			
Year III, Sem VI						
1	CMM 220	Data Communication	3	3	1	2
2	CMM 351	Antenna Systems	3	3	1	2
3	CMP 424	Cloud Computing and Virtualization	2	2	2	2
4	CMP370	Internet of Things	3	3	1	2
5		Elective I	3	3	1	0
6	PRJ 351	Minor Project	2	0	0	4
		Sub-total	16			
Year IV, Sem VII						
1	CMP 336	Data Science and Machine Learning	3	3	1	2
2	CMM 426	Wireless Communication Technology	3	3	1	0
3	MGT332	Entrepreneurship and Professional Practice	2	2	1	0
4	MGT 320	Engineering Management	2	2	1	0
5	CMM 424	Telecommunication and Network Security	3	3	1	0
6		Elective II	3	3	1	0
		Sub-total	16			
Year IV, Sem VIII						
1		Elective III	3	3	1	0
2	INT 490	Internship	3	0	0	6
3	PRJ 452	Major Project	3	0	0	6
		Sub-total	9			
		Total	120			



[Signature]
May 14, 2025

Pokhara University
Bachelor of Architecture
Curriculum Structure (Revised- 2020)

S N	Course Code	Subject	Credit	Lecture	Tutorial	Practical	Pre-requisite
Year I		Semester I					
1	ASC 101	Mathematics	3	3	2	0	
2	HIS 171	Introduction to Architecture	2	2	0	0	
3	BLT 151	Building Materials	2	2	2	0	
4	PRS 111	Free Hand Sketching	3	0	0	6	
5	PRS 112	Basic Drafting	3	0	0	6	
6	PRS 113	Basic Design	5	0	0	10	
Year I		Semester II					
1	ASC 102	Communication Techniques	2	2	2	0	
2	ASC103	Statics and Dynamics	2	2	2	0	
3	VIS 121	Architectural Modeling	2	0	0	4	
4	VIS 122	Architectural Independent Studies	2	0	0	4	
5	PRS 114	Architectural Graphics	3	0	0	6	
6	ADS 131	Design Studio-I	5	0	2	10	
Year II		Semester III					
1	HIS 272	History of Architecture I (<i>Western & Eastern</i>)	3	3	1	0	
2	AES 241	Building Science I	2	2	1	0	
3	DTT 281	Design Theory I	2	2	0	0	
4	ASC 204	Structure I	2	2	2	0	
5	VIS 223	Structural Forms	2	0	0	4	
6	PRS 215	Computer Aided Design	3	0	0	6	
7	ADS 232	Design Studio II	5	0	2	10	<i>Basic Design</i>
Year II		Semester IV					
1	BLT 252	Building Construction I	3	2	1	2	
2	HIS 273	History of Architecture II (<i>Modern</i>)	2	2	1	0	
3	ASC 205	Structure II	2	2	2	0	
4	ASC 206	Surveying	3	2	1	2	
5	PRS 216	Computer Aided 3D Visualizations	2	0	2	4	
6	ADS 233	Design Studio III	5	0	2	10	<i>Design Studio-I</i>
Year III		Semester V					
1	ASC 307	Structure III	3	3	2	0	
2	BLT 353	Building Construction II	3	2	1	2	
3	AES 342	Landscape Architecture	3	2	0	2	
4	HIS 374	History of Architecture III (<i>Nepalese</i>)	3	2	0	2	
5	AEL 391	Elective I	2	0	0	4	
6	ADS 334	Design Studio IV	5	0	2	10	<i>Design Studio-II</i>
Year III		Semester VI					
1	AES 343	Building Science II	2	2	1	0	
2	AES 344	Settlement Planning	3	3	2	0	
3	BMP 361	Working Drawing and Detailing	2	0	2	4	
4	DTT 382	Design Theory II	2	2	0	0	
5	ASC 308	Building Services	3	2	2	2	
6	ADS 335	Design Studio V	5	0	2	10	<i>Design Studio-III</i>
Year IV		Semester VII					
1	BMP 462	Practicum (<i>Practical Office Experience</i>)	15	0	0	30	
Year IV		Semester VIII					
1	ASC 409	Estimation, Valuation and Specification	2	2	2	0	
2	BLT 454	Building Construction III	3	2	1	2	
3	AEL 492	Elective II	3	3	0	0	
4	VIS 424	Directed Studies and Seminar	2	0	0	4	
5	ADS 436	Design Studio VI	5	0	4	10	<i>Design Studio-IV</i>
Year V		Semester IX					
1	AEL 593	Elective III	3	2	0	2	
2	AES 545	Architects & Society	3	2	0	2	
3	ADS 537	Design Studio VII	5	0	2	10	<i>Design Studio-V</i>
4	DTT 583	Thesis- Part I	4	0	2	8	<i>Design Studio-VI</i>
Year V		Semester X					
1	BMP 563	Professional Practice	2	2	0	2	
2	DTT 584	Thesis: Part II	12	0	4	24	

Notes:

- *Credit hour has been calculated as THEORY =1 equals PRACTICAL =2 or vice-versa (PRACTICAL 2 = THEORY 1) and Credit Hour has been calculated accordingly in each subjects.*
- *Tutorial load has not been calculated in credit hour.*
- *Pre-requisite course has been defined as stated above(in Design Studio only)*

Elective Courses**Elective I**

- 1 Interior Design & Decoration
- 2 Programming in C
- 3 Gender in Architecture
- 4 Architectural Photography
- 5 Professional Communication Techniques

Elective II

- 1 Architectural Conservation
- 2 Urban Design
- 3 Green Building Design
- 4 Vernacular Architecture
- 5 Disaster Risk Management

Elective III

- 1 Environment Impact Assessment
- 2 Advanced Building Technology
- 3 Advance Structure
- 4 Entrepreneurship Development
- 5 Sustainable Architecture
- 6 Heritage Conservation