# Nepal Engineering College Information about Civil Engineering

#### 1. What is Civil Engineering?

Have you ever wondered how the tallest skyscrapers, longest bridges or gigantic hydropower plant are made? Behind every structure around us, there is the meticulous planning and execution of Civil Engineers. Civil Engineering is mostly about designing, building, and maintaining the infrastructures that keeps our world connected and moving. From constructing earthquake-resistant buildings to ensuring clean water reaches every home, Civil Engineers turn ideas into reality. If you dream of creating structures that stand the test of time and want a career that combines creativity, technology, and real-world impact — Civil Engineering is your path to shaping the future!

#### 2. Unique features of Civil Engineering?

Civil Engineering offers several advantages, especially for students looking for **diverse scope after a bachelor's degree** and a career with visible, long-lasting impact. One of the biggest strengths of Civil Engineering is its wide-ranging applications — from structural design, transportation, water supply, and environmental protection to urban development and disaster-resilient infrastructure. Unlike fields that may confine you to factories or coding rooms, Civil Engineers work in both outdoor project sites and technical offices, providing a dynamic and balanced work environment.

#### 3. What are the opportunities?

After a bachelor's degree, Civil Engineering graduates enjoy diverse career options — pursuing higher studies in structural engineering, geotechnical engineering, construction management, environmental engineering, or even transitioning into entrepreneurship, urban planning, or public service. Civil Engineers are also in constant demand globally, as developing and maintaining infrastructure like roads, bridges, tunnels, water systems, and smart cities is essential for every nation.

### 4. How long has it been initiated?

Bachelor in Civil Engineering is being offered in Nepal Engineering College since its establishment in 1994. As the one of the earliest engineering institute, Nepal Engineering College has produced large mass of civil engineers who are working as accomplished professionals and academicians all over the world.

For further details please contact the following

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## **Curriculum Structure:**

#### Pokhara University Bachelor of Civil Engineering, 2022

Year		Semester I	_	_		
	Course Code	Subject	Credit	Lecture	Tutorial	Practic
	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	i	
6	MEC 112	Engineering Drawing	2	0		2
	THE ITE				0	- 6
Year		Sub-tota	15	13	7	12
		Semester II	-		_	
	Course Code	Subject	Credit	Lecture	Tutorial	Practic
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	CVI. 112	Civil Engineering Workshop	i	0	0	
6	GTE 150					3
7	MEC 114	Engineering Geology	3	3	0	2
-	MEX. 114	Introduction to Energy Engineering	2	2	1	1
		Sub-tota Sub-tota	18	17	7	10
Year		Semester III	12.		1.	
S. N.	Course Code	Subject	Credit	Lecture	Tutorial	Penetic
1	ARC 150	Building Technology				
2	MTH 210	Calculus II	2	2	0	2
3	WRE 212		3	3	2	0
4		Fluid Mechanics	3	3	2	2
-	MTH 252	Numerical Methods	2	2	1	2
5	STR 216	Strength of Materials	3	3	2	Ĩ
6	CVL 216	Surveying I	3	3	1	3
	Company of	Sub-tota				
Year	: II	Semester IV	10	16	- 8	10
	Course Code	Subject	7	-		
1	MGT 250		Credit	Lecture	Tutorial	Practic
2		Engineering Economics	3	3	1	0
_	WRE 250	Hydraulies	3	3	2	2
3	MTH 216	Probability and Statistics	2	2	2	0
4	GTE 252	Soil Mechanics	3	3		_
5	STR 252	Structural Analysis I			2	2
6	CVL 252		3	3	2	1
	2.11.22	Surveying II	3	3	1	3
V	: 111	Sub-total	17	17	10	. 8
		Semester V				
	Course Code	Subject	Credit	Lecture	Tutorial	Practic
1	WRE 310	Engineering Hydrology	2	2		
2	CVL 318	Estimating and Valuation	3	3	2	1
3	GTE 310	Foundation Engineering			2	0
4	STR 314	Structural Analysis II	3	3	2	1
		T	3	3	2	1
5						1
5	TRP 310	Transportation Engineering I	3	3	1	
6	ENV 310	Water Supply Engineering	3	3		_
6	ENV 310	Water Supply Engineering Sub-total	3	3	2	- 1
6 Year	ENV 310	Water Supply Engineering				_
6 Year	ENV 310	Water Supply Engineering Sub-total Semester VI	3 17	17	11	5
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6 Year S. N. 1 2	: III Course Code CVL 350 STR 312	Water Supply Engineering Sub-total Semester VI Subject Project I Concrete Technology and Masonry Structure	3 17 Credit	3 17 Lecture 0 3	Tutorial 0 2	5 Practic
6 Year S. N. 1 2 3	: III Course Code CVL 350	Water Supply Engineering Sub-total Semester VI Subject Project I Concrete Technology and Masonry Structure Design of Steel and Timber Structure	3 17 Credit	3 17 Lecture 0	2 11 Tutorial	5 Practic
6 Year S. N. 1 2 3	ENV 310  : III  Course Code  CVI. 350  STR 312  STR 354	Water Supply Engineering Sub-total Semester VI Subject Project I Concrete Technology and Masonry Structure Design of Steel and Timber Structure Elective I	3 17 Credit	3 17 Lecture 0 3	Tutorial 0 2	Practice 2 2 0
6 Year S. N. 1 2 3 4 5	ENV 310  2 III  Course Code  CVI. 350  STR 312  STR 354  WRE 352	Water Supply Engineering Sub-total Semester VI Subject Project I Concrete Technology and Masonry Structure Design of Steel and Timber Structure Elective I Irrigation and Drainage Engineering	3 17 Credit 1 3 3	3 17 Lecture 0 3 3 3	2 11 Tutorial 0 2 2	Practic 2 2 0 0
6 Year S. N. 1 2 3 4 5	ENV 310  2 III  Course Code  CVL 350  STR 312  STR 354  WRE 352  ENV 352	Water Supply Engineering Sub-total Semester VI Subject Project I Concrete Technology and Masonry Structure Design of Steel and Timber Structure Elective I Irrigation and Drainage Engineering	3 17 Credit 1 3 3 3	3 17 Lecture 0 3 3 3 3	2 11 Tutorial 0 2 2 0 2	Practic 2 2 0 0
6 S. N. 1 2 3 4 5 6	ENV 310  2 III Course Code CVI. 350 STR 312 STR 354  WRE 352 ENV 352 CVI. 316	Water Supply Engineering Sub-total Semester VI Subject Project I Concrete Technology and Masonry Structure Design of Steel and Timber Structure Elective I Irrigation and Drainage Engineering Sanitary Engineering	3 17 Credit 1 3 3 3 3 3	3 17 Lecture 0 3 3 3 3 3	2 11 Tutorial 0 2 2 0 2 2	1 5 5 Practic 2 2 0 0 0 0 1
6 Year S. N. 1 2 3 4 5 6	ENV 310  2 III  Course Code  CVL 350  STR 312  STR 354  WRE 352  ENV 352	Water Supply Engineering Sub-total Semester VI Subject Project I Concrete Technology and Masonry Structure Design of Steel and Timber Structure Elective I Irrigation and Drainage Engineering Sanitary Engineering Survey Field Project	3 17 Credit 1 3 3 3 3 3	3 17 Lecture 0 3 3 3 3 3 3	2 11 Tuterial 0 2 2 0 2 2 0 2	1 5 Practic 2 2 0 0 0 1 1 2
6 Year S. N. 1 2 3 4 5 6 7	ENV 310  2 III Course Code CVI. 350 STR 312 STR 354  WRE 352 ENV 352 CVI. 316	Water Supply Engineering Sub-total Semester VI Subject Project I Concrete Technology and Masonry Structure Design of Steel and Timber Structure Elective I Irrigation and Drainage Engineering Sanitary Engineering Survey Field Project Transportation Engineering II	3 17 Credit 1 3 3 3 3 3 1	3 17 Lecture 0 3 3 3 3 3 3 3 3 3	2 11 Tutorial 0 2 2 0 2 2 0 2	1 5 Practic 2 2 0 0 0 1 1 2 1
6 Year S. N. 1 2 3 4 5 6 7 8	ENV 310  : III  Course Code  CVI. 350  STR 312  STR 354  WRE 352  ENV 352  CVI. 316  TRP 352	Water Supply Engineering Sub-total Semester VI Subject Project I Concrete Technology and Masonry Structure Design of Steel and Timber Structure Elective I Irrigation and Drainage Engineering Santary Engineering Sarvey Field Project Transportation Engineering II Sub-total	3 17 Credit 1 3 3 3 3 3 1	3 17 Lecture 0 3 3 3 3 3 3	2 11 Tuterial 0 2 2 0 2 2 0 2	1 5 Practic 2 2 0 0 0 1 1 2
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