

Nepal Education Foundation Consortium of Colleges, Nepal (NEF-CCN)
Asian Institute of Technology and Management (AITM)

Curriculum Structure

AIT UG Program “Civil and Infrastructure Engineering”

The curriculum is structured under 8-semesters (4-years) including internship opportunities in related multi-national companies. The curriculum structure consists of **150** credits. Details are provided hereunder.

Code	Course Name	Credits (T-P)	Instructor
Year 1 Semester I			
UG101	Mechanics	4(3-1)	Prof. Dr. B. Bhattarai
UG102	Calculus I	3(3-0)	Prof. Dr. G.B. Joshi
CS101	Introduction to Computers and Programming	5(3-2)	Ms. N. A. Rajbhandari
UG110	Engineering Drawing	3(1-2)	Dr Madhav N Shrestha
UG103	English Communication Skills I	3(3-0)	Dr. R. Bajracharya
UG104	Praxis I	1(0-1)	Dr Vishnu P .Pandey
Sub total		19(13-6)	
Year 1 Semester II			
UG105	Electromagnetism & Optics I	4(3-1)	TBA
UG106	Calculus II	3(3-0)	Prof. Dr. G.B. Joshi
UG107	English Communication Skills II	3(3-0)	Dr. R. Bajracharya
UG108	Praxis II	1(0-1)	Dr Vishnu P Pandey
UG109	Chemistry	4(3-1)	Assoc. Prof. Dr. H.R. Pant
UG111	Material Sciences	3(2-1)	Prof. S.R. Byahut
Sub total		18(14-4)	
Year 2 Semester III			
UG201	Linear Algebra	3(3-0)	Prof. Dr. G.B. Joshi
UG202	Applied Mathematics Laboratory	1(0-1)	Mr. Jayendra Shrestha
UG203	Engineering Mechanics	3(2-1)	TBA
CIE202	Fluid Mechanics	4(3-1)	Dr. Vishnu Prasad Pandey
CIE203	Surveying	3(2-1)	Dr. Madhav N. Shrestha/ Mr. Ramesh K. Bajimayo
CIE206	Hydrology	3(3-0)	Dr. Madhav N. Shrestha
Sub total		17(13-4)	
Year 2 Semester IV			
UG204	Probability and Statistics	3(3-0)	TBA
UG205	Calculus III	3(3-0)	TBA
IE202	Strength of Materials	3(2-1)	TBA
CIE201	Soil Mechanics	3(2-1)	TBA

CIE303	Hydraulics Design	3(3-0)	TBA
Sub total		15(13-2)	TBA
Year 2 & 3 Inter-Semester			
	Internship 1 (12 Weeks)	3(0-3)	
Year 3 Semester V			
UG: (306 307 308 312)	Foreign Language I (French Spanish Chinese Japanese)	2(2-0)	Language Center
UG302	Engineering Economics	3(3-0)	Dr Pisut Koomsap
UG305 UG304	Technical Writing/ Humanities	3(3-0)	TBA
CIE205	Structural Analysis I	3(3-0)	Dr. Punchet Thammarak
CIE302	Numerical Methods	3(3-0)	Dr. Akhrawat Lenwari
CIE204	Foundation Engineering	3(2-1)	Prof. Bergado/ Dr. Noppadol
CIE304	Introduction to Transportation Engineering	3(3-0)	Dr. Ampol Karoonsoontawong
Sub total		20(19-1)	
Year 3 Semester VI			
UG303	Environmental Studies	3(3-0)	TBA
UG305 UG304	Technical Writing/ Humanities	3(3-0)	TBA
UG: (311 310 313 314)	Foreign Language II: (French Spanish Chinese Japanese)	2(2-0)	Ms. Juliette Francois Ms Myriam R. Morato Dr Hugo Ms N. Rieko
CIE301	Structural Analysis II	3(3-0)	Dr. Punchet Thammarak
UG304	Humanities	3(3-0)	Tom
CIE306	Highway Engineering	3(3-0)	Dr. Piyapong Jiwattanakulpaisarn
CIE305	Design of Reinforced Concrete Structures	3(3-0)	Dr. Pennung Warnitchai
CIE307	Project Scheduling in Construction	3(3-0)	Dr. B.H.W. Hadikusumo
Sub total		23(23-0)	
Year 3 & 4 Inter-Semester			
	Internship II (12 Weeks)	3(0-3)	
Year 4 Semester VII			
UG600	Capstone Project I	5(-)	All faculty
UG402	Principles of Innovation and Entrepreneurship	2(2-0)	TBA
	Technical Elective I	3(-)	TBA
	Technical Elective II	3(-)	TBA
	Technical Elective III	3(-)	TBA
Sub total		16(0)	
Year 4 Semester VIII			

UG601	Capstone Project II	5(5-0)	All Faculty
UG404	Engineering Professional Practice	2(2-0)	TBA
	Technical Elective IV	3(-)	TBA
	Technical Elective V	3(-)	TBA
	Technical Elective VI	3(-)	TBA
Sub total		16(-)	