

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

Curriculum Structure
BE Computer & BIT Program

BE – Computer Engineering

The BE – Computer curriculum comprises of 142 credit hours spanned over four year, each year consisting of two semesters.

S.N	Course Code	Course Name	Credits
I/I First Semester			
1	BEG101SH	Engineering Mathematics-I	3
2	BEG103SH	Physics	3
3	BEG105SH	Communicative English	3
4	BEG146ME	Engineering Drawing	2
5	BEG148ME	Workshop Technology	2
6	BEG170CO	Elements and Device of Computing Technology	3
7	BEG***CO	Computer Programming	3
Total			19
II/II Second Semester			
1	BEG102SH	Engineering Mathematics	3
2	BEG176CO	Object Oriented Programming	3
3	BEG104SH	Chemistry	3
4	BEG150CI	Applied Mechanics	3
5	BEG***EL	Electrical Engineering	3
6	BEG***CO	Digital Logic	3
Total			18
III/III Third Semester			
1	BEG201SH	Engineering Mathematics-III	3
2	BEG***CO	Information System Design	3
3	BEG***EC	Electronics Devices & Circuits	3
4	BEG273CO	Data Structure & Algorithm	3
5	BEG***CO	Computer Organization & Architecture	3
6	BEG***CO	Project	2
Total			17
IV/IV Fourth Semester			
1	BEG***EC	Microprocessor	3
2	BEG***CO	Database Management Systems	3
3	BEG***CO	Free and Open Source Programme	3
4	BEG***CO	Discrete Mathematics	3
5	BEG***EC	Communication System	3
6	BEG395MS	Applied Sociology	2
Total			17
III/II Fifth Semester			

1	BEG370CO	Numerical Methods	3
2	BEG***CO	Algorithms Analysis and Design	3
3	BEG372CO	Computer Graphics	3
4	BEG373CO	Operating System	3
5	BEG396MS	Research Methodology	3
6	BEG***CO	Project	3
Total			18
III/II Sixth Semester			
1	BEG***MS	Project and Organization Management	2
2	BEG***CO	Theory of Computation	3
3	BEG***CO	Multimedia Technology	3
4	BEG374CO	Computer Network	3
5	BEG203SH	Probability and Statistics	3
6	BEG49MS	Engineering Economics	2
Total			16
IV/I Seventh Semester			
1	BEG***CO	Entrepreneurship	3
2	BEG471CO	Artificial Intelligence	3
3	BEG472CO	Software Engineering	3
4	BEG473CO	Simulation and Modeling	3
5	BEG***CO	Project	2
6	BEG475CO	Elective-I	3
Total			17
IV/II Eighth Semester			
1	BEG***CO	Data Mining and Data Warehousing	3
2	BEG459CI	Engineering Professional Practice	2
3	BEG***CO	Cryptography	3
4	BEG477CO	Advanced Computer Architecture	3
5	BEG478CO	Elective-II	3
6	BEG***CO	Project	6
Total			20

BIT

The BIT curriculum comprises of 139 credit hours spanned over four year, each year consisting of two semesters.

S.N	Course Code	Course Name	Credits
I/I First Semester			
1	BIT111HS	Mathematics-I	3
2	BIT112CS	Fundamentals of Information System	3
3	BIT113HS	Technical Communicative English	2
4	BIT114CE	Basic Electrical System and Circuit	3
5	BIT115MS	Principles of Management	3
6	BIT116CS	Programming in C	3

7	BIT117CS	Project-I	1
Total			18
I/II Second Semester			
1	BIT121HS	Mathematics-II	3
2	BIT122CE	Electronic Devices and Circuit	3
3	BIT123CE	Digital Logic	3
4	BIT124CS	Object Oriented Programming in C++	3
5	BIT125MS	Financial Management & Accounting	3
6	BIT126CS	Project-II	2
Total			17
III/ Third Semester			
1	BIT212CS	Numerical Methods	3
2		System Analysis and Design	3
3	BIT.....CS	User Interface Design	3
4	BIT214CS	Microprocessor & Assembly Language	3
5	BIT215HS	Data Structures & Algorithm	3
6	BIT216CS	Project-III	2
Total			17
II/II Fourth Semester			
1	BIT221CS	Computer Architecture	3
2	BIT222CS	Database Management Systems	3
3	BIT223CS	Principle of Electronic Communication	3
4	BIT224CS	Operating System	3
5	BIT226MS	Marketing Management	3
6	BIT227CS	Project-IV	2
7	BIT...CS	*****	3
Total			20
III/II Fifth Semester			
1	BIT311HS	Probability & Statistics	3
2	BIT312CS	Data Communication	3
3	BIT313HS	Society & Ethics in Information Technology and Research Methodology	3
4	BIT315CS	Computer Graphics	3
5	BIT316CS	Project-V	2
6	BIT...CS	*****	3
Total			17
III/II Sixth Semester			
1	BIT321CS	Computer Network & Telecommunication	3
2	BIT322CS	Embedded System Programming	3
3	BIT323CS	Data Mining & Data Warehousing	3
4	BIT324CS	Management Information System	3
5	BIT325CS	Web Technology & Programming	3
6	BIT326CS	Project-VI	2
Total			17

IV/I Seventh Semester			
1	BIT411CS	Network Programming	3
2	BIT412CS	Software Engineering	3
3	BIT413CS	Multimedia Systems & Communication	3
4	BIT414CS	Distributed Processing	3
5	BIT415CS	Artificial Intelligence	3
6		Elective-I*	3
Total			18
IV/II Eighth Semester			
1	BIT421CS	Project Management	3
2	BIT422CS	E-Commerce	3
3	BIT423CS	Wireless Communication Systems	3
4		Elective-II*	3
5	BIT424CS	Project-VII	3
Total			15