

## Laboratories and Facilities

Besides the following full-fledged laboratories, which are in operation, more advanced laboratories are in the process of setting up.

- Soil Mechanics
- Concrete Materials
- Engineering Geology
- Transportation engineering
- Fluid Mechanics and Hydraulics
- Strength of Material
- Material Testing
- Water Supply and Sanitary Engineering
- Electrical, Electronics Lab
- Computer
- Mechanical Workshop
- Thermodynamics
- Physics
- Chemistry
- Drawing Rooms
- Surveying and Field work
- Excursion and field works as required by the courses

Library with enough books  
Extra activities: sports, auditorium hall, clubs etc.



## Financial Assistance and Scholarship

Scholarships are available for the deserving and financially poor and backward students.

1. PU Scholarship (in total enrolled students): Merit Scholarship for 5% students and Reserved Scholarship for 5% students on the basis of reservation criteria of PU.
2. IST / DOCE Scholarship: IST itself is determined to provide better opportunity and enhance the engineering skills as a social responsibility. It provides partial scholarships for the deserving and poor students. The scholarship is only first semester and criteria are scores in plus two along with remoteness and financially needy.
3. Student should apply for the scholarship and financial assistance during the application.

## Head of Department

Dr. Bal B. Parajuli, (Water Environment and Development)

## Key Resource Persons

Prof. Dr. Prem Nath Maskey, (Structural Engineering)  
Dr. Madhav Narayan Shrestha, (Water Resources)  
Dr. Maya Prasad Bhatta, (Environment)  
Dr. Vishnu Pandey, (Water Resources)

## Who are at NEF-CCN AITM?

### Board of Directors

- Prof. Dr. Sriram Bhagut Mathe  
Chairperson
- Mr. Umesh Shrestha  
Vice Chairperson
- Mr. Pramod Pradhan
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- Prof. Dr. Prem Nath Maskey

### IST Academic Committee

- Dr. Madhav Narayan Shrestha  
Coordinator, AIT UG Program
- Mr. Pramod Pradhan  
Director, AITM
- Mr. Bhupa Das Rajbhandari  
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- Mr. Rajeeb Kumar Singh  
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- Dr. Bal B. Parajuli  
Head, Department of Civil Engineering
- Mr. Gyani Ray  
Head, Department of ICT



Join BE (Civil Engineering) at AITM/IST  
Secure future at present and finally, contribute to nation building

Department of Civil Engineering  
trusts quality education and academic excellence



NEF-CCN

NEPAL EDUCATION FOUNDATION -  
CONSORTIUM OF COLLEGES, NEPAL

AITM

ASIAN INSTITUTE OF TECHNOLOGY & MANAGEMENT

Under the aegis of NEF - CCN

Department of Civil Engineering, IST/ AITM

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For **Serious Education**. For **Secured Future**.



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These programs are currently offered under WhiteHouse Education Network (WHEN), which is being rebranded as Asian Institute of Technology & Management (AITM)

BE  
Bachelor of  
Civil Engineering



Seriously  
अब पढने बेला  
भयो

# About AITM

## Vision

To contribute to human resources development in the country by networking with other prestigious and reputable institutions within and outside the country so as to produce skilled and qualified graduates, with analytical skills, creative and innovative thinking, who are morally upright and socially responsible and are able to lead from the front by example.

## Mission

To offer the students an educational environment that enhances their learning, enlightens their minds and mould their personalities in a caring environment so that they are thoughtful, critical, innovative and responsible global citizens, who will be leaders in whatever careers they choose.

## Objective

AITM wishes to be a positive agent of change, within the country, regionally and internationally, by collaborating with reputed international institutions of Asia and beyond, and drawing upon their vast experiences and track record of operating in a multi-national and multi-cultural academic setting.

AITM will strive to become an international university by 2020. In offering the international programs in Nepal, the main aim will be to transform Nepalese institutions of higher education into outstanding seats of learning, equipped to foster high-quality education, scholarship and research, to produce enlightened citizens with strong moral and ethical values.



# BE – Bachelor of Civil Engineering

## Introduction

Development of infrastructure is the backbone of nation building. Civil Engineering, a branch of engineering, plays a vital role to develop and maintain sustainable infrastructures, which covers a wide-range of specialized fields. For example, Roads, Irrigation, Hydropower, Buildings, Bridges, Water Supply etc are in great demand within the country. These must be financially viable, socially acceptable and environmentally sustainable. Further, Civil Engineering imparts the skill and knowledge for optimum use of resources in safe and environment friendly way.

Department of Civil Engineering (DOCE) of Institute of Science and Technology/AITM offers a four years (eight semesters) course of Bachelor Degree in Civil Engineering (BE) under the affiliation of Purbanchal University of Nepal.

## Main Objectives of the Course

- To produce competent and development oriented skilled civil engineers;
- To address the need and challenge of Infrastructure development of Nepal; and
- To enhance sustainable development in resource mobilization in the present environmental issues.

## Eligibility for Admission

Plus 2 sciences (Physical group) with average 45% marks or Diploma in Engineering or equivalent recognized by Purbanchal University (PU), can apply through the college and candidate should be successful in the entrance exam conducted by PU.

## Courses Outline

The curriculum of 149 credits provides a unique blend of practical and theoretical knowledge including various elective subjects and project works offered by the Department as follows:

### Total Course Credit: 149

#### 1st Year / 1st Semester (19 Credit)

1. BEG101SH Mathematics-I
2. BEG156CI Applied Mechanics-I (Statics)
3. BEG146ME Engineering Drawing-I
4. BEG148ME Workshop Technology
5. BEG104SH Chemistry
6. BEG146ME Engineering Drawing-I
7. BEG148ME Workshop Technology
8. BEG174CO Computer Concept and Programming
9. BEG159CI Construction Materials
10. BEG159CI Construction Materials

#### 1st Year /2nd Semester (19 Credit)

1. BEG102SH Mathematics-II BEG157CI Applied Mechanics-II (Dynamics)
2. BEG103SH Physics
3. BEG147ME Engineering Drawing-II
4. BEG105SH Communicative English
5. BEG149ME Fundamentals of Thermodynamics and Heat
6. BEG155CI Building Construction

#### 2nd Year/1st Semester (18 Credit)

1. BEG201SH Mathematics-III
2. BEG256CI Strength of Materials
3. BEG221EI Electric Circuit and Machines
4. BEG258CI Survey-I
5. BEG261CI Fluid Mechanics
6. BEG255CI Engineering Geology

#### 2nd Year /2nd Semester (19 Credit)

1. BEG203SH Probability and Statistics
2. BEG257CI Theory of Structures-I
3. BEG396MS Research Methodology
4. BEG262CI Hydraulics
5. BEG358CI Engineering Hydrology
6. BEG258CI Survey –II
7. BEG212AR Fundamental of Architecture

#### 3rd Year / 1st Semester (20 Credit)

1. BEG361CI Water Supply Engineering
2. BEG359CI Soil Mechanics
3. BEG357CI Theory of Structures-II
4. BEG375CO Numerical Methods
5. BEG356CI Concrete Technology and Masonry Structures
6. BEG364CI Transportation Engineering-I
7. BEG360CI Survey Camp

#### 3rd Year / 2nd Semester (18 Credit)

1. BEG464CI Transportation Engineering -II
2. BEG464CI Transportation Engineering -II
3. BEG465CI Irrigation Engineering
4. BEG495MS Engineering Economics
5. BEG456CI Design of Steel and Timber structures
6. BEG362CI Sanitary Engineering
7. BEG375CO Foundation Engineering

#### 4th Year / 1st Semester (19 Credit)

1. BEG365CI Estimation and Valuation
2. BEG362CI Design of RCC Structures
3. BEG464CI Applied Sociology
4. BEG457CI Hydropower Engineering
5. An Introduction to EQ Engineering
7. Elective I
8. Elective II

#### 4th Year /2nd Semester (17 Credit)

1. BEG468CI Safety Engineering and risk management
2. BEG459CI Engineering Professional Practice
3. BEG494MS Construction Project Management
4. BEG454CI Civil Engineering Project works
5. Elective III

## Evaluation System

Student requires scoring minimum 40% in internal and board examination in general; and a minimum 2.00 CGPA requires in 4.00 for graduation in BE (Civil Engineering).

## Academic

A team of highly qualified and experienced faculty members are fully committed to develop the capacity and skills of students. Well facilitated laboratories, class rooms including multimedia based lectures and library are available. More practical and demand driven elective subjects, guest lecturers in contemporary issues of subjects and project works are offered during the course which will make students confident in their field. In addition, college has extra activities facility which student enjoys in their free time.