MANMOHAN TECHNICAL UNIVERSITY

Budhiganga-4, Morang, Koshi Province, Nepal

INTRODUCTION

The 2015 constitution of Nepal established a federal system of governance giving legal authority to the provincial/state government to establish and operate need-based higher education institutions in their provinces. Manmohan Technical University (MTU) was thus established by the Provincial Government of Koshi Province (the then Province1) in 2019. In the background, there has been Manmohan Memorial Polytechnic which provides foundations and has already been in successful operation for about one and a half decades with a well-known public image and branding for high-quality engineering technical Diplomas and other relevant vocational/occupational training courses. MTU has been established to produce higher level skilled technical human resources required for the economic progress, and prosperity of the nation and to contribute globally. This institution is the first Technical University in Nepal to provide need based high-quality technical and vocational education at the local, regional, national and international levels.

The University is moving forward with the belief that it will move towards becoming a model Technical University in South Asia. The University has three Schools namely the School of Engineering, the School of Applied Science and Technology and the School of Medicine and Allied Health Sciences. The School of Engineering was established initially with Bachelor in Civil Engineering and Bachelor in Electrical and Electronics Engineering programs in 2078 BS. To meet the need of huge number of Electrical Engineers in the nation, the School of Engineering has launched BE in Electrical Engineering from the Academic Year 2081/082.

VISION

A Technical University committed to excellence in education research and innovation for contributing to the national and global Technical Education arena.

MISSION

MTU shall become a model Technical University recognized for quality education, impactful research and entrepreneurship development.

SALIENT FEATURES

- First Technical University in Nepal
- Well equipped Labs and Workshops
- Practical, project based and work based curriculum (Internship)
- Congenial academic and research environment
- Internal and final marks ratio 50:50 in theory and 60:40 in practical
- Best teaching-learning environment
- Competent and motivating faculty members
- Well equipped library with E-Journal access
- Hostel facility (conditions apply) Girls

Course Structure of B.E. Electrical Engineering

First Year First Part

Engineering Mathematics I
Engineering Workshop
Engineering Physics
Engineering Drawing I
Computer Programming
Engineering Thermodynamics
Basic Electrical Engineering

First Year Second Part

Engineering Mathematics II
Engineering Drawing II
Applied Mechanics
Surveying and Computer Aided Drawing
Object Oriented Programming
Logic Circuit
Electrical Engineering Materials

Second Year First Part

Engineering Mathematics III
Microprocessors
Electric Circuit Theory
Electronics Devices and Circuits
Measurment and Instrumentation
Electrical Machine I
Professional Practice and Ethics

Second Year Second Part

Electrical Machine II
Applied Mathematics
Numerical Methods
Control System Engineering
Power Electronics
Electrical Power System I
Technology, Environment & Society

Third Year First Part

Probability and Statistics
Transmission System Design
Digital Control System
Signals and Systems
Electrical Machine Design
Electrical Power System II
Project I

Third Year Second Part

Distribution Line Design
Illumination Design & Industrial Electrification
Engineering Economics
Power System Protection
Indrustrial Automation
Elective I
Project II

Fourth Year First Part

High Voltage Engineering
Project Management
Power Plant Engineering
Electrical Energy System Management
Research Project
Elective II
Elective III

Fourth Year Second Part

Work Based Education
Final Project

Elective I

Flexible AC Transmission System
Microgrids
Intelligent Power System

Elective II

Reliability Engineering
Electrical Vehicle (EV) Technology

Elective III

Applied Photovoltaic Engineering
Micro Hydro Power
Wind Energy Conversion System

Course Structure of B.E. Civil Engineering

First Semester

Engineering Mathematics I
Engineering Chemistry
Engineering Physics
Engineering Drawing I
Computer Programming
Basic Electrical and Electronics Engineering

Second Semester

Engineering Mathematics II
Engineering Mechanics I
Engineering Geology
Workshop Technology
Engineering Drawing II
Civil Engineering Materials
Fundamental of Architecture

Third Semester

Engineering Mathematics III
Engineering Mechanics II
Strength of Materials
Fluid Mechanics
Building Technology
Computer Aided Building Drawing
Surveying I

Fourth Semester

Theory of Structures I
Hydraulics
Numerical Methods
Soil Mechanics
Surveying II
Concrete Technology

Fifth Semester

Probability & Statistics
Transportation Engineering I
Theory of Structures II
Foundation Engineering
Survey Camp
Design of Masonry Structure
Engineering Hydrology

Sixth Semester

Transportation Engineering II
Design of Steel & Timber Structure
Engineering Economics
Water Supply Engineering
Construction and Project Management
Irrigation and Drainage Engineering
Elective I

Seventh Semester

Design of RCC
Sanitary Engineering
Hydropower Engineering
Estimating Costing and Valuation
Project I
Elective II
Elective III

Eighth Semester

Professional Practice and Ethics
Work Based Education
Project II

CRITERIA FOR ADMISSION IN B.E.

As per UGC guidelines:

- Minimum C in all subjects including Math, Physics and Chemistry in class 12 with minimum 45% minimum score with 45% in each subject (PCM).
- Math in class 11 and 12 is compulsory.

MODE OF INTAKE

- Entrance Examination Form will be available online.
- Entrance Examination (CBT-Computer Based Test) will be conducted on the announced date.

Prof. Dr. Prachand Man Pradhan
Dean, School of Engineering

Dr. Deepranjan Dongol
HOD, Department of Electrical and Electronics Engineering

Er. Om Narayan Chaudhary
HOD, Department of Civil Engineering

Available Scholarships:

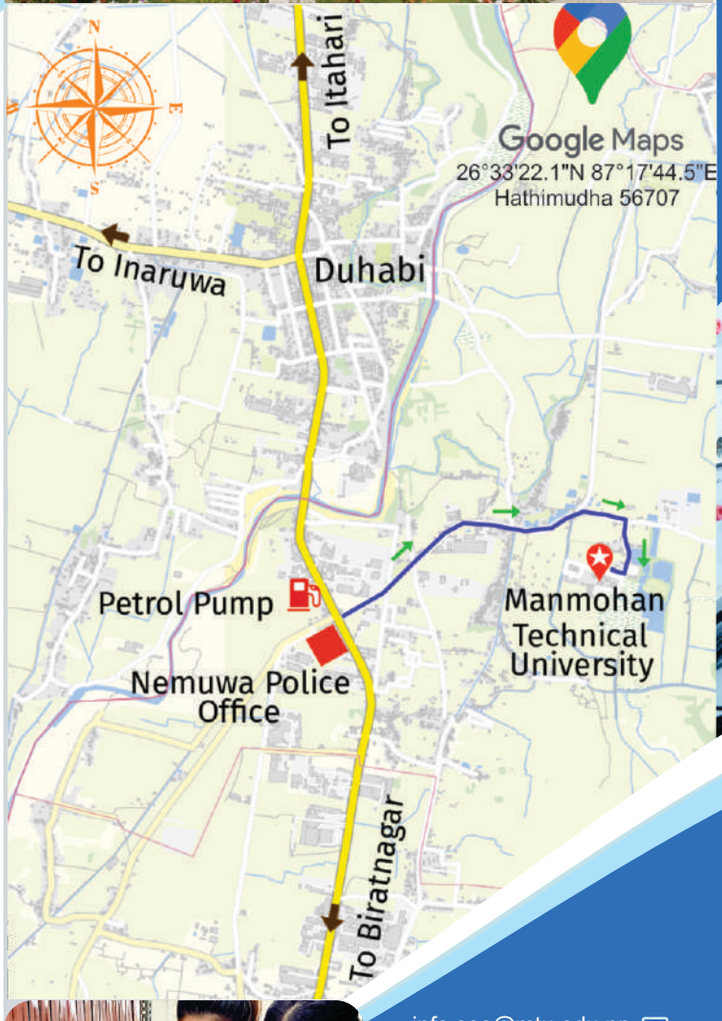
Scholarship Name	B.E. Civil Engineering	B.E. Electrical Engineering
Merit	1	1
Need Based	4	4
Partial Rebatement	4	4

Full Fee for 4 Years:

(for academic year 2081/082 B.S.)

→ B. E. Civil Engineering : NRs. 5,95,000/-

→ B. E. Electrical Engineering : Rs. 5,85,000/-



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Budhiganga-4, Morang, Koshi Province, Nepal

SCHOOL OF ENGINEERING

Courses Offered for 2081/082

→ Bachelor in Civil Engineering : 48 Seats

→ Bachelor in Electrical Engineering : 48 Seats