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# MANMOHAN TECHNICAL UNIVERSITY

BUDHIGANGA-4, MORANG, PROVINCE 1, NEPAL

ESTD: 2019



BE Civil  
Full Fee for 4 years  
Rs. 5,85,000/-

BE Electrical & Electronics  
Full Fee for 4 years  
Rs. 5,75,000/-

## SCHOOL OF ENGINEERING

### Courses Offered for 2079/80

- |  |          |
|--|----------|
| <input checked="" type="checkbox"/> Bachelor in Civil Engineering                      | 48 Seats |
| <input checked="" type="checkbox"/> Bachelor in Electrical and Electronics Engineering | 24 Seats |

# MANMOHAN TECHNICAL UNIVERSITY SCHOOL OF ENGINEERING



## **Introduction**

Manmohan Technical University (MTU), established in 2019 AD in Budhiganga Rural Municipality, ward number 4, Morang District, Province 1, is the first Technical University in Nepal. The university is spread in 13.5 hectares of land. Manmohan Technical University, School of Engineering is offering Bachelor in Civil Engineering (BCE) and Bachelor in Electrical & Electronics Engineering (BEEE) courses to produce highly skilled technical manpower capable to undertake the works in the respective field of Engineering.

## **Vision**

Social transformation through technical education and innovation.

## **Mission**

To impart entrepreneurial oriented technical education for the sustainable development through innovative as well as indigenous techniques.



# MANMOHAN TECHNICAL UNIVERSITY

Course Structure of B.E. Electrical & Electronics		Course Structure of B.E. Civil	
First Semester	Second Semester	First Semester	Second Semester
Engineering Mathematics I	Engineering Mathematics II	Engineering Mathematics I	Engineering Mathematics II
Engineering Chemistry	Engineering Thermodynamics	Engineering Chemistry	Engineering Mechanics I
Engineering Physics	Applied Mechanics	Engineering Physics	Engineering Geology
Engineering Drawing I	Modern Physics	Engineering Drawing I	Workshop Technology
Computer Programming	Object Oriented Programming	Computer Programming	Engineering Drawing II
Workshop Technology	Electrical Installation Workshop	Basic Electrical and Electronics Engineering	Civil Engineering Materials
Basic Electrical Engineering	Electrical Engineering Material		Fundamental of Architecture
Third Semester	Fourth Semester	Third Semester	Fourth Semester
Engineering Mathematics III	Electromagnetics	Engineering Mathematics III	Theory of Structures I
Logic Circuit	Applied Mathematics	Engineering Mechanics II	Hydraulics
Electric Circuit Theory	Numerical Methods	Strength of Materials	Numerical Methods
Electronics Devices and Circuits	Control System Engineering	Fluid Mechanics	Soil Mechanics
Instrumentation	Analog and Digital Integrated Circuits	Building Technology	Surveying II
Electrical Machine	Microprocessors	Computer Aided Building Drawing	Concrete Technology
Minor Project I	Minor Project II	Surveying I	
Fifth Semester	Sixth Semester	Fifth Semester	Sixth Semester
Probability and Statistics	Electric Safety and Hazard	Probability & Statistics	Transportation Engineering II
Embedded Systems	Consumer Electronics	Transportation Engineering I	Design of Steel & Timber Structure
Digital Control System	Engineering Economics	Theory of Structures II	Engineering Economics
Signals and Systems	Power System Protection	Foundation Engineering	Water Supply Engineering
Power System Analysis	Major Project II	Survey Camp	Construction and Project Management
Major Project I	Technology, Environment & Society	Design of Masonry Structure	Irrigation and Drainage Engineering
Elective I	Elective II	Engineering Hydrology	Elective I
	Elective III	Seventh Semester	Eighth Semester
Seventh Semester	Eighth Semester	Design of RCC	Professional Practice and Ethics
Advanced Instrumentation	Professional Practice and Ethics	Sanitary Engineering	Work Based Education
Final Project I	Work Based Education	Hydropower Engineering	Project II
Project Management for Engineers	Final Project II	Estimating Costing and Valuation	
Elective IV		Project I	
Elective V		Elective II	
Elective VI		Elective III	
Elective VII			Elective Subjects
Elective Subjects		Structural Dynamics	Advanced Geo-technical Engineering
For Electrical Stream	For Electronics Stream	Seismic Resistant design of masonry structure	Traffic Engineering & Management
Electric Machine Design	Integrated Communication System		Domestic Water and Waste Water Engineering and Management
Power Electronics	Wireless communication	Design of Suspension Bridge	
Illumination Design and Industrial Electrification	Database Management System	Transportation Planning & Engineering	Water Quality Management
Power Plant engineering	Computer Architecture	Fundamental of Rock Mechanics	Environmental Impact Assessment
High Voltage Engineering	GIS and Remote Sensing	Soil Conservation and Watershed Management	GIS & Remote Sensing
Advanced Power System Analysis	Antenna and Propagation	Geo Hazard	Construction Safety Management
Applied Photovoltaic Engineering	Digital Image Processing	Time Series Analysis	Procurement Management
Micro-Hydro Power	Big Data Analytics	Solid waste Management	Ropeway Engineering
Wind Energy Conversion System	Information Systems	Water and Wastewater Quality Analysis	Disaster Risk Management
Rural Electrification	Digital Signal Processing	Design of Bridge	Climate Change
Transmission and Distribution Engineering	Optical Fiber Communication	Vulnerability Assessment and Retrofitting Techniques	Operation Research in Engineering
Reliability Engineering	Microwave Engineering	Earthquake Risk Assessment	Geotechnical Earthquake Engineering
	VLSI	Rock Slope Engineering	Post disaster Water and Sanitation Management
		Hill Irrigation Engineering	Public health and Risk Assessment
		Ground Water Engineering	Railway Engineering

## Quota Division

Quota	B.E. Civil	B.E. Electrical & Electronics
Female (Open)	2	1
Female (Province 1)	2	1
Target Group (Province 1)	4	2
Diploma (MMP)	2	1
Diploma (Open)	2	1
Sponsored	4	2
Foreign	3	1
Scheduled Caste (Province 1)	2	1
MTU Faculty/Staff	1	1
MTU Faculty/Staff	1	1
MTU BOT and	1+1	1+1
Local	2	1
Open	21	9
<b>Total</b>	<b>48</b>	<b>24</b>

## Scholarships

Scholarship Name	B.E. Civil	B.E. Electrical & Electronics
Merit	1	1
Need Based	4	2
Partial Rebatement	4	2

## Salient Features

- First Technical University in Nepal
- Well equipped Labs and Workshops
- Practical, project based and work based curriculum
- Congenial academic and research environment
- Internal and final marks ratio 50:50 in theory and 60:40 in practical

## 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.

## MEET-CBT Entrance Exam Form

Will be available ONLINE from

**2079-06-11 (27 Sept 2022)**

**Normal Form Fee: Rs. 1800/-**

**Up to: 2079-07-14 (31 Aug 2022)**

**Late Form Fee: Rs. 2500/-**

**Up to: 2079-07-24 (10 Nov 2022)**

## Manmohan Technical University

School of Engineering  
Budhiganga-4, Morang  
Province-1, Nepal

