FACULTY

Professor:
Dr. Bholu Thapa (Dean, School of Engineering)

Associate Professor:
Dr. Bim Prasad Shrestha (Head of the Department)
Dr. Barseung Ku
Sama Shekhar Adiga

Assistant Professors:
Mr. Binod Shiwakoti
Mr. Dhanneswar Mishra (On Study Leave)
Mr. Bivek Baral (On Study Leave)
Mr. Hari Prasad Neupane (On Study Leave)
Mr. Daniel Tuladar (On Study Leave)

Visiting Expatriate Faculty
Prof. Dr. John K Cannel
Asst. Prof. Alex Zahnd

Lecturer:
Mr. Binay KC

Teaching Assistants:
Mr. Krishna Prasad Shrestha
Mr. Sumit Aryal
Mr. Jeeban Poudel
Mr. Pratisth Lal Shrestha
Ms. Shanti Prajapati

Research Assistants:
Mr. Nawanraj Sanjel
Mr. Malesh Shah

Lab Technicians:
Mr. Raj Kumar Thakuri
Mr. Maheshwor Prajapati
Mr. Ram Thapa Magar
Mr. Chetan Sushling

KATHMANDU UNIVERSITY

“Quality Education for Leadership”

School of Engineering
Dhulikhel, Kavre, Nepal

ADMISSION INFORMATION

for
PROSPECTIVE STUDENTS
Bachelor of Engineering (B.E)

KATHMANDU UNIVERSITY
DEPARTMENT OF MECHANICAL ENGINEERING
Dhulikhel, P.O. Box 6250, Kathmandu, Nepal
Tel: +977-11 661399 EXT 141, 151, Fax: +977-11-661443
E-mail: mech@ku.edu.np
Website: http://www.ku.edu.np/mech
Do you want to be a Mechanical Engineer?

As a mechanical engineer, you are an innovator. Almost every design you complete as a professional engineer will be new, original, in some way or other. You are interested in the physical principles involved in a product's design, its manufacturing and assembling, its safe operation and final disposal. You are challenged by the laws of motion, forces, stresses, thermo and fluid dynamics that apply in machine and energy converters. Mechanical engineering is an extremely broad field.

Mechanical engineering is concerned with the use and economical conversion of energy from natural sources into other useful energy to provide power, light, heat, cooling, and transportation; the design and production of machines to lighten the burden of human work, the creative planning, development, and operation of systems for using energy, machines, and resources; and the processing of materials into products useful to people.

Scope of Mechanical Engineering

- Mechanical engineers develop devices to harness energy from nature like fossil fuel, solar, wind, hydropower, and geothermal energy.
- Mechanical engineers are the masters for handling industrial systems like a mighty computer integrated manufacturing for helping organizations to be more effective and productive.
- Mechanical engineering is an integral part of Robotics, Mechatronics, and Machine Vision.
- Mechanical engineers work in biomechanical engineering helping physicians to investigate not only the workings of the body but also designing aids for the people and instruments for automatic computer surgical.
- Mechanical engineers utilize their knowledge in designing using Computer Aided Design tool (CAD).
- Mechanical engineering possess automobile sector as a major branch.

“Mechanical Engineering is a creative profession”

MECHANICAL ENGINEERING at Kathmandu University

“We offer you the best”

Kathmandu University (KU) is a leader in engineering education in Nepal. The Department of Mechanical Engineering located at the University premises; Dhulikel is one of the oldest programs at the University and the first of its kind in Nepal. Since its inception, the department has continuously striven to accomplish the mission of the University, which is to provide quality education for leadership development.

KU offers the best with its highly trained teachers and expatriate faculty. It strives to offer you the most and exposes you to the cutting edge technology in mechanical engineering discipline so that you gain the most. We have actively aligned courses to include most recent developments in the field and offer excellent services to the students to make them employable. Two months industrial training is organized for students to develop professionalism. Students are encouraged to do internships even outside Nepal. Also, the university has collaborations with foreign and native universities, INGOs etc.

Strength of the Program

- Learn in one of the few programs that provides both mechanical engineering and materials science within the same department. Interact with faculty outside the classroom and get assistance in all aspects of your personal development.
- All design projects in the capstone design course are industrially supported, providing valuable connections with field professionals.
- Managerial thrust by offering several managerial and entrepreneurial courses.
- Join other science, math, and engineering students in the School of Science - share courses with your neighbours, study together, get free tutoring, and use the hall's own computer lab.
- The department has very good relations and memorandum of understanding with several NGOs and INGOs.
- The excellence of the quality of its students has been time and again proven by the admission and scholarship offer received by its students in the respectable universities worldwide. The department has a good relation with foreign universities and hence faculty and student exchange programs also take place.

Extra Curricular Activities

- Association of Mechanical Engineering Students (AMES) sports week
- Motorbike repair and maintenance training
- Four-wheeler driving training for final year students
- AMES is authorized to organize other relevant activities with response to department

Financial Assistance

The University provides financial assistance to needy students; in terms of loans, scholarships and fee waivers. Such scholarships are sponsored and are limited in number.

LABORATORY AND RESEARCH FACILITY

- Machine Vision Laboratory
- Fluid Mechanics Laboratory
- Strength of Material Laboratory
- Thermodynamics Laboratory
- Heat Transfer Laboratory
- Hydraulics Laboratory
- Water Power Laboratory
- Refrigeration and Air-conditioning Laboratory
- Theory of Machine Laboratory
- Basic Manufacturing Laboratory
- automobile Laboratory
- Metrology Laboratory
- Workshop including fitting, carpentry, sheet metal, foundry and Machine Shop
- CAD/CAM

ONGOING RESEARCH ACTIVITIES AT THE DEPARTMENT

- Electric Riksha (Supported by the World Bank/Poverty Alleviation Fund)
- Pressure Distribution in Pelton Bucket (Supported by HHR, Switzerland)
- Fluvial Particle Characterization (Supported by HHR, Switzerland)
- Energy from Biomass (Supported by ESAP/DANIDA)
- High Altitude Metallic Stove and Solar Energy (Supported by HHR, Switzerland)
- Image processing at Machine Vision Lab (Supported by JASSO, Government of Japan)
- Fluvial Particle Monitoring by Spectral Imaging (Supported by Internation Foundation of Science, Sweden)
- Rural Cold Storage Project (Supported by UMN/Nepal)
- Vehicular Pollution and its effect on Traffic Management (in collaboration with Center for Pollution Studies/IDE)
- Characterization of Sediments and its effect on hydro power

OTHER FACILITY

- Technology based instructional delivery
- Morning to evening library facility
- Hostel facility, 24 hours internet facility
- Sports Facility