

FACULTY

Professor:

Dr. Bhola Thapa (Dean, School of Engineering)

Associate Professor:

Dr. Bim Prasad Shrestha (Head of the Department)

Dr. Bonseung Ku

Soma Shekhar Adiga

Assistant Professors:

Mr. Binod Raj Shiwakoti

Mr. Dhaneshwar Mishra (On Study Leave)

Mr. Bivek Baral (On Study Leave)

Mr. Hari Prasad Neupane (On Study Leave)

Mr. Daniel Tuladhar (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. Suman Aryal

Mr. Jeeban Poudel

Mr. Pratisthit Lal Shrestha

Ms. Shanti Prajapati

Research Assistants:

Mr. Nawaraj Sanjel

Mr. Malesh Shah

Lab Technicians:

Mr. Raj Kumar Thakuri

Mr. Maheshwor Prajapati

Mr. Ram Thapa Magar

Mr. Chetan Sushling



For further information please contact:

Dr. Bim Prasad Shrestha

Head of Department



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>



MECHANICAL ENGINEERING



KATHMANDU UNIVERSITY

"Quality Education for Leadership"

School of Engineering
Dhulikhel, Kavre, Nepal

ADMISSION INFORMATION

for

PROSPECTIVE STUDENTS
Bachelor of Engineering (B.E)

DEPARTMENT OF MECHANICAL ENGINEERING

Dhulikhel, P.O. Box: 6250

Kathmandu, Nepal

Tel: (011) 661399, 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, hydro and geothermal energy.
- Mechanical engineers are the masters for handling industrial system like a mighty computer integrated manufacturing for helping organizations to be more effective and productive.
- Mechanical engineering is integral part of Robotics Mechatronics and Machine Vision.
- Mechanical engineers works 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



Student is working in computer lab

"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; Dhulikhel 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 thrives 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 doing internship 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



Students on intern at CP group of industries, Thailand



Students on intern at AIT Thailand

- Automobile Laboratory
- Metrology Laboratory
- Workshop including fitting, carpentry, sheet metal, foundry and Machine Shop
- CAD/CAM



Students working in Machine shop

- Hydraulic Machine Laboratory
- Water Power Laboratory
- Refrigeration and Air-conditioning Laboratory
- Theory of Machine Laboratory
- Basic Manufacturing Laboratory

ONGOING RESEARCH ACTIVITIES AT THE DEPARTMENT

- Electric Riksha (Supported by the World Bank/Poverty Allevation Fund)
- Pressure Distribution in Pelton Bucket (Supported by HHF, Switzerland)
- Fluvial Particle Characterization (Supported by HHF, Switzerland)
- Energy from Biomass (Supported by ESAP/DANIDA)
- High Altitude Metallic Stove and Solar Energy(Supported by HHF, Switzerland)
- Image processing at Machine Vision Lab (Supported by JASSO, Government of Japan)
- Fluvial Particle Monitoring by Spectral Imaging (Supported by International 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(IOC)
- Characterization of Sediments and its effect on hydro power



Displaying work in Machine vision laboratory

OTHER FACILITY

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