

NEPAL ENGINEERING COLLEGE *nec*

(Affiliated to Pokhara University)

Not -for-Profit Social Academic Institution.
(D.A.O. Bhaktapur, Redg. No. 552/2060)

PROSPECTUS 2019



A BRAND OF QUALITY ENGINEERING EDUCATION SINCE 1994

www.nec.edu.np





- 1 Prof. Dr. Deepak Bhattarai
- 2 Dr. Ram Ratna Upadhyay
- 3 Er. Lava Raj Bhattarai
- 4 Dr. Upendra Gautam
- 5 Mr. Lambodar Neupane
- 6 Mr. Hari Prasad Pandey
- 7 Mr. Surya Bahadur K.C.

the **Founders**

College Board of **Directors**



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Vice Chairperson



Er. Arjun Gautam
Member (Pokhara University)



Mr. Hari Prasad Pandey
Member



Er. Lava Raj Bhattarai
Member



Dr. Ram Ratna Upadhyay
Member



Er. Salil Bhattarai
Member



Mr. Som Pd. Mishra
*Mayor, Changunarayan Municipality
Member*



Dr. Upendra Gautam
Member



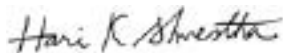
Prof. Dr. Hari Krishna Shrestha
Member Secretary (Principal)

Message from the **Principal**

Nepal Engineering College (**nec**) has consistently performed well above average in the academic and research sectors, and the overall personality development of its students through balance between mental and physical wellbeing. No wonder, this college has earned a respected brand name in the higher technical education sector of Nepal. Different national and international organizations list this college at par with reputed universities of this region. Students choosing to pursue their academic growth at Nepal Engineering College will be rewarded with close interaction of experienced teachers with a highest degree of dedication in assisting the students, as a subject teacher and as a guide in social development.

In its 25 years of establishment and growth, Nepal Engineering College has faced many ups and downs, with a general trend to ever expanding international and national linkages. Beginning from September 2017, news about this college was in the front cover of many national dailies, almost on a weekly basis, when some persons with ulterior motives tried to exploit its good name; however, with the cooperation from everyone concerned, **nec** has emerged from the unnecessary legal and administrative issues, and re-established itself as the institution of choice among the students of Nepal pursuing technical education. Many organizations from different countries and national industries regularly visit this college to explore potential employees. For the students who are motivated to explore their potential, this college is a perfect match.

With almost all teaching staff on a full-time service basis, complete set of each and every practical laboratory experiment, abundant open spaces for recreation and physical fitness, number of international collaborative research projects, students participating in final year research project in European universities, dozens of students receiving full scholarship for pursuing higher education in reputed universities around the globe, number of students clubs involved in research activities and good range of choice in engineering programs in undergraduate and graduate levels, Nepal Engineering College has attained a "matured" level in providing highest quality engineering education in Nepal. I am sure you will thank yourself for choosing Nepal Engineering College for your higher education.



Prof. Dr. Hari Krishna Shrestha
Principal



We pride ourselves in providing an education that nurtures the innate talents of our students and that offers them opportunities to develop and demonstrate these abilities.



Background

Nepal Engineering College, popularly known as **nec**, is the first not-for-profit social academic institute of Nepal.

nec was established in 1994 as a not-for-profit social academic institute by a group of visionary Nepalese eminent professionals, academicians, managers and industrialists who realized the need of an institution serving the higher educational needs in engineering, technology and management reaching out to a wider section of Nepalese youths and making quality education accessible and affordable. Their aim was to produce technically competent engineering graduates ready to contribute in the accelerated social and economic growth of the country. This pioneering example set by **nec** led to the establishment of a number of engineering colleges in the country in the later years. **nec** is committed to retaining its long earned reputation as 'an institution with concerns for quality education and academic freedom', again an example set by it for others to follow.

Since its establishment, **nec** is engaged in designing, upgrading and standardizing academic curriculum and its delivery at Bachelor and Masters level courses in engineering, technology and allied disciplines. **nec** intends to continue with this initiative, offering more innovative and applied courses in the established and emerging areas in the days to come. In doing so **nec** has succeeded in establishing a "brand" of its own.

Initiated with limited physical and instructional resources, **nec** has now grown into an institution with its learning resources comparable to any institution of repute in the country and in the region. The physical infrastructure and instructional resources, built on 210 ropanies (10.69 ha) of land at the lap of Changunarayan in Bhaktapur, a UNESCO world heritage site, right beside the Manohara river bank provides an ideal ambience of learning.

Currently, **nec** offers Bachelor level courses in Civil Engineering, Electronics and Communication Engineering, Computer Engineering,

Electrical and Electronics Engineering, Civil and Rural Engineering and Civil Engineering for Diploma Holders leading to B.E. (Bachelor of Engineering) degree, Bachelor level course in Architecture leading to B. Arch (Bachelor of Architecture) degree, and Postgraduate courses leading to Master of Science (M.Sc.) degree in Construction Management (CM), Natural Resources Management (NRM), Interdisciplinary Water Resources Management (IWRM) and Transportation Engineering and Management (TEAM). The B.E. Civil for Diploma Holders course is organized at **nec**-BDH in Lalitpur and all the Postgraduate courses are organized at **nec** - Center for Postgraduate Studies (**nec**-CPS) also located in Lalitpur.

ISTE-**nec** Chapter

nec hosts international chapter of the Indian Society for Technical Education (ISTE) in Nepal, a professional body established for standardization of academic curricula and its delivery, crucial for quality education in engineering and technology. **nec** is also an institutional member of ISTE.



Vision and Mission of **nec**

The vision of **nec** is to evolve as the center of higher learning, excelling in academics, through continued engagements in education, research and outreach as three integrated functions of the college.

In approaching the stated vision, the mission of **nec** includes:

Providing the youth with the best opportunities and environment of learning to help them attain high level of academic standard, scientific temper, technical and professional competence and life-skills.

Train and develop youth as total person, ready to serve the society and people to transmit the cultural heritage and improve their quality of life.

Inculcate the values to appreciate the need for ethical standards in personal, social and public life, to become leaders, to be a voice to influence the society and the nation, and to uphold just social order.



Principal Prof. Dr. Hari Krishna Shrestha and Exam Division Chief Assoc. Prof. Rosina Mali with 2019 graduates at the convocation ceremony at Pokhara University

Planned Activities at **nec**:

- Construction of a student center within two years.
- Introducing new programs in Masters/Bachelors
- Allocate and implement laboratory update budget of NRs. 10 million annually.
- Implementation of e-library in the college.



**IIT Rorkee
(Dec 1995)**

**IST Education
(1999)**

**Ball State
University, USA
(Jan 1999)**

**BUET
(May 2000)**

**Michigan State
University
(Sept 2001)**

**Kalinga institute
of industrial tech.,
(May 2002)**

**Swiss Contact
(2004)**

**IIT Madras
(May 2006)**

**Ehime University,
Japan
(May 2006)**

**University of
Southern Australia
(2007)**

**SaciWaters
(Sept 2007)**

**Preston University,
Pakistan
(Dec 2007)**

**Wakhok
University, Japan
(Feb 2007)**

**Building Research
Institute, Japan,
(2007)**

**Imperial College
London,
(Dec. 2007)**

**Griffith University,
Australia, (2007)**

**Kochi University,
Japan, Nov. (2008)**

**ICIMOD,
(2009)**

**Cap-Net, South
Africa,
(2010)**

**IDRC, Canada,
(2010)**

**ERASMUS+
(2017)**

**NCEPU
(2018)**

**iDRC, SAWA
Canada
(2013, 2017)**

MORE+



International **Collaborations**

International **Linkages**

nec has established institutional linkages for academic exchanges, with a number of universities, institutions and organizations in different parts of the world. Exchange of faculty and students, sharing of knowledge, experiences and publications and collaboration in teaching and research have been some of the continued activities initiated and supported under such linkages. To date the institutional linkages of **nec** extend to -

Being Relevant to the **Society**

nec is continually engaged in promotional and development activities in the neighboring communities of Changuarayan Municipality of Bhaktapur and Kageshwori Manohara Municipality of Kathmandu as a part of its corporate social responsibility. This engagement has been mutually rewarding for **nec** as well as the communities in the vicinity.

Strengthening Research activities in water and sanitation sector with Imperial College London, UK

nec has prioritized practical based solution for engineering studies. In this regard, it has been engaging students in field survey and data collection in different research activities. Prof. Sabitri Tripathi, Department of Science and Humanities and Dr. Michael Templeton, Reader in Public Health Engineering, Department of Civil and Environmental Engineering have been involved in different research projects related to Water, Sanitation and Hygiene since 2007. Currently they have been involved in research activity on Water supply intermittency in Kathmandu Valley since 2016. Students of **nec** are involved in data collection and field activities. They are trained for water quality analysis at the field level.

An ISO 9001:2015 & Sedex Certified College



South Asia Water (SAWA) Leadership Program on Climate Change

SAWA Leadership Program on Climate Change (2017-2021) in continuation to earlier IDRC SAWA Fellowship Project for iWRM program, is being supported by International Development and Research Center (IDRC) Canada and executed by South Asia Consortium for Interdisciplinary Water Resources Studies (SaciWATERs) in four academic institutions of South Asian Countries including **nec**. The aim of the program is to increase the number of women occupying leadership roles in the water sector fostering an interdisciplinary approach linking climate change and water insecurity by awarding fellowships to 36 women enrolled in masters level Integrated Water Resources Management (iWRM) program in Bangladesh, India, Nepal and Sri Lanka. Three female students for three academic sessions from each academic institution shall receive financial support to pursue course in Interdisciplinary Water Resources Management (iWRM). Currently, **nec** as one of the Partner Institutions (PIs) had successfully completed the 14 day workshop for the first batch of SAWA Fellows on "Leadership and Research Methods for Interdisciplinary Water Research". The second and third workshops are scheduled to be held in India and Sri Lanka respectively.



Problem-Based Education in South Asian Universities (PBL South Asia)

nec is the partner institution of the new collaborative project "Strengthening Problem Based Learning (PBL)" along with other ten different universities located in Finland, India, Bhutan, the Netherlands and Lithuania. The Project aims to promote problem-based learning in South Asia and is funded by the European Commission's Erasmus+ Capacity Building in Higher Education and duration of the project is three years from 15-11-2018 to 15-11-2021. The project aim to contribute to stronger innovation capabilities of new graduates in partner universities, strengthen institutional capacities to build innovation partnerships, increase number of university-industry partnerships and increase relevance and know-how of program universities' interdisciplinary PBL teaching in the context of global challenges.



Key Action 1 – Mobility for learners and staff – Higher Education Student and Staff Mobility (Student mobility Exchange program for studies)

Inter-institutional agreement 2018-2020 between Nepal Engineering College, Nepal and The Technical University of Cartagena (UPCT), Spain has been signed to cooperate for the exchange of students and/or staff in the context of the Erasmus+ programme. Both institutions commit to respect the quality requirements of the Erasmus Charter for Higher Education in all aspects of the organisation and management of the mobility, in particular the recognition of the credits (or equivalent) awarded to students by the partner institution. The institutions also commit to sound and transparent management of funds allocated to them through Erasmus+.



Completed Projects:

Promoting Sustainable Hydro-power Development in Nepal and India

As part of the Conflict and Cooperation in the Management of Climate Change (CCMCC) project, funded by the DFID, implemented by the NWO (The Netherlands) and executed by the Wageningen University (The Netherlands) through partner institutes in Nepal and India, **nec** contributed in development of conflict free and sustainable hydropower development in Nepal and India by developing socially and environmentally justifiable water allocation for the energy generation, socio-economic needs of the local residents and flora and fauna of the river system. The CCMCC project was successfully completed in July 2018.

The main objectives of the program are:

- Provide a platform for researchers, scientists and policy makers to discuss different aspects of water management and share knowledge and expertise
- Help fill the gap between water management science and policy
- Explore possibilities of promoting research and studies in the area of water and water resource management
- Develop long lasting network of scientists, researchers and policy makers for sustainable knowledge building in the region

Hawa Energy Development Group (HEDG) - Joint venture between Nepal Engineering College and JESA Technical Assistance, Japan

The use of renewable energy has been expanding remarkably in recent years. Renewable energy is a critical part of reducing global carbon emissions. As the pace of investment has greatly increased as the cost of technologies fall and efficiency continues to rise, these technologies are gaining popularity. Especially the use of photovoltaic generation and wind power Hybrid Solar Wind Power Generation System that use natural energy has grown significantly. Hybrid Solar Wind Power Generation System at Nepal Engineering College, Changunarayan, Bhaktapur is one such system.

The project is a joint venture initiated by Nepal Engineering

College and JESA Technical Team, Japan. Fujitsu Limited Company, Japan donated "Hybrid Combined Solar and Wind Energy Turbine" on 23rd December, 2016. The HAWA coordinating team comprising of Pramod Ghimire (Coordinator), Krishna Bikram Shah (Member), and Rojesh Dahal (Member) has been involved in monitoring, maintaining, repairing, scheduling, and operating the system setup. This is a validation of the fact that institutional linkages are prerequisites for the academic progress in the field of research as well as in bridging the gap between academic and industrial applications. This project is one such international link. The Japanese team has visited Nepal Engineering College more than 3 times where the students/faculties/staff were able to participate in the interaction with the Japanese professionals and the professors from the renowned universities.

Peri-Urban Water Security Project (2010-2013)

Nepal Engineering College, in partnership with some regional institutions, has completed an action research entitled Water Security emerging from urbanization and climate change in peri-urban areas of three South Asian countries. In Nepal, the study was undertaken at four peri-urban villages in Kathmandu valley namely, Dadhikot and Jhaukhel in Bhaktapur, Lubhu in Lalitpur and Matatirtha in Kathmandu district. A total of six students were provided internship to carry out research in the relevant field.

Crossing Boundaries (CB) Project (2007-2011)

Under the Funding of DGIS of the Government of Netherlands for Regional Capacity Building on Integrated Water Resources Management (IWRM) and Gender and Water in South Asia, from July 2007-December, 2011.

Under this Project, out of 45 graduates, a total of 30 iWRM graduates are currently working in various organizations (both Government and Non-Government). More than 50 water professionals have been provided with advanced training on Integrated Water Resources Management, Interdisciplinary Field Research Methodology, Integrated Water Supply and Sanitation, Water and Gender, Water and Climate Change. A total of

45 M.Sc. thesis and many papers of the students were presented and published in proceedings and journals.



Energy Efficient Lighting Education in Nepal and Bhutan (ELNAB) – EU funded project

This project "Promoting Energy Efficient Lighting Education in Nepal and Bhutan (ELNAB)", agreement no. 2016-2975/001-401 co-funded by the Education, Audiovisual and Culture Executive Agency (EACEA) of the European Commission (EC) belongs to the Erasmus + Program for the action Capacity Building in Higher Education (CBHE). This action aims to support the modernization, accessibility and internationalization of higher education in the Partner Countries to contribute to the development of sustainable and inclusive socio-economic growth. The project aims to assist Nepal and Bhutan to reduce electricity consumption as well as greenhouse gas emissions through capacity building of human resources in the fields of energy efficient lighting systems.

The outcome of this project were capacity development of the faculties, development of lighting laboratory and development of elective course in **Illumination Engineering** and **Training Course on Fundamental of Illumination Engineering and Design**.





Notable Events of the Recent Past

nec has been organizing seminars, conferences, short-term training courses, and other scholarly activities, besides regular teaching and research involvements. The followings are some of the notable events in the recent past, organized by **nec**, either independently or in collaboration with national or international institutions and organizations.

- Nepal Engineering College (ISTE-chapter), Kathmandu Nepal organized a two-day faculty development programme on "ACTIVE & CO-OPERATIVE LEARNING" was held, from July 14th to 15th, 2017
- To cope with the current market demand and realize the theories into practice, Nepal Engineering College, Department of Architecture, organized a one-day workshop on Curriculum Revision for the Bachelors level program related to Architecture of Pokhara University on 5th June at Hotel View Bhaktapur, Jagati.
- Nepal Engineering College in association with Indian Society for Technical Education (ISTE-**nec** Chapter) organized two days National workshop entitled "Teaching Learning Pedagogy in Technical Education" on 10-11 March, 2016 at Hotel Shambala, Kathmandu.
- **nec** presented an international research paper at a workshop on "Developing Regional Collaboration in River Basin Management in Response to Climate Change" organized by Monash University, Australia at Taj Palace Hotel, New Delhi on Dec 15, 2015.
- **nec** participated at the CoCooN-CCMCC Exchange Workshop (Nov 27, 2015) and put up posters on developments up to this point on "Nepal's International Research Project related to Hydropower Development in Eastern Himalayas" organized by the Ministry of Foreign Affairs (MoFA) of the government of the Netherlands, at Hagueinn in which **nec**, Wageningen University, Univ. of East Anglia, NWCF, and Sikkim University, AQUADAM, and SOPPECOM of India are the project partners.
- **nec** actively participated in the recovery and help camps, setting up distributing tents and working together with the government authorities and NGOs after the devastating earthquake of April 25, 2015. **nec** also encouraged its students to participate in the reconstruction and rehabilitation programs. B.E. Civil, B.E. Civil & Rural and B. Architecture final year students participated in the one-month reconstruction and rehabilitation program for 2015 earthquake victims in the districts of Sindhupalchowk and Dolakha between 17th Feb 2017 to 26th March 2017. The program was formally organized by the Pokhara University, Nepal Engineers' Association and National Reconstruction Authority, Nepal.





Life at *nec*



Information Communication and Technology (ICT) Center

ICT center consists of hardware and software facilities needed for information and communication. These include computer and network hardware, communication middleware as well as necessary software. The Windows and Linux based Computer Laboratories, seven in number, are managed by the ICT center which provide opportunity for the students to experiment with readymade software and developing their own software during and after the class hours. The students can access the information through unlimited internet access and Wi-Fi connectivity within the **nec** premises.

Lab Upgrades

Recent lab upgrades for Civil Engineering has been accomplished.

1. Three hinged arch and bending moment set up are replaced by new ones and are used for structure analysis practical.
2. Three new Smart Road software have been recently added for final year road project.

Research Centers

The following research centers established within the **nec** umbrella are involved in research, development and promotional activities:

1. Center for Research in Social Defense Technology (CRSDT)
2. Computer Technology and Robotonix Club (CTRC)

Co-curricular Activities

Games/Sports

The college encourages students to participate in sports, athletics and other co-curricular activities on **nec** holidays. Sports activities are strictly prohibited on college days. The facilities for outdoor sports include volleyball and basketball courts and a large football ground maintained within the college premises.

Site Visits and Study Tours

The college arranges required site visit or study tour of students to relevant industries, institutions and construction projects. Settlement study, directly complementing the learning of the students pursuing B. Architecture. is part of the curriculum. A survey camp of ten days is organized for the third year students of B. E. (Civil and Civil & Rural) and B. E. Civil for Diploma Holders. Two weeks educational exposure tour (NASA) to India is organized for the third year students of architecture. After such visits, students are asked to submit a report in prescribed format as a part of internal evaluation system.



Library

nec library provides the ambience of learning for the students and faculty. There is collection of more than 35000 books and references on wide ranging subjects in engineering, technology, basic and applied sciences, social sciences, language and culture. The library has been essentially serving **nec** students and faculty and also professionals and researchers from outside. The computerized catalogue system allows easy retrieval of text books and other references.

SWECAD: Student Welfare and Extra Curricular Activities Division

The SWECAD emphasizes nurturing of the “whole student” – socially responsible, emotionally matured, intellectually capable, and spiritually sound. This spirit has helped the students in their overall development, to make them ready to accept the challenges in their professional career. In order to achieve this, SWECAD organizes a number of creative, co-curricular and personality development activities. SWECAD monitors the progress of the students and extends needed emotional and moral support. SWECAD is headed by a senior faculty, who coordinates the activities on a regular basis.

Students’ guardians are regularly informed of the progress of their wards on all activities including academic performance in each semester by a teaching faculty counselor.

Allied Services

Students’ Union

Students’ Union (SU) has been constituted with the objective of promoting students’ participation in academics and co-curricular activities. SU provides a forum for the students to interact with fellow students coming from different parts of the country with diverse social and cultural backgrounds and helps them manage their scholastic pursuit actively. SU also provides feedbacks to the college management on academic issues as and when needed.

Students’ Welfare Activities

Under student welfare activities students’ overall career and skill development works such as: conducting different non-credit courses depending upon the industrial/market demand, facilitate the students to participate in robotics competitions, project exhibitions and also facilitate them to participate seminar/conference/workshop/symposium etc. Sports activities will not be held on college days strictly.



Students Clubs Info

Center for Applied Research and Rural Development (CARRD-*nec*)

A research and development club comprising students pursuing their studies in different areas of engineering and technology. CARRD is expected to create synergy for productive engagement of the students in the development and promotion of appropriate technology for rural development and similar scholarly activities supporting the academic discourse in the college.

Microsoft Student Partners (MSPs)

MSPs are the brightest and most innovative student developers and technology enthusiasts from Colleges/Universities around the world. The MSPs at *nec* provides niche of opportunities for the students and faculty to enhance their software skills.

Nepal Civil Engineering Students' Society (NCESS)

Its activities have always been driven by the spirit of empowering the civil engineering students through engagement in scholarship activities.

Peace Vision Youth Network (PVYN)

PVYN works for social welfare, human rights campaigns in engineering sector under AMNESTY INTERNATIONAL umbrella.

Academic Council of Architecture Students (ACAS)

A social venture that aims to develop strong camaraderie amongst the architectural students studying at *nec*.

Society for Civil and Rural Engineering Students (NCRES) works for enhancement of concerned students knowledge by conducting seminars, workshops etc.

nec Thinks BIG

not a club but a virtual umbrella to bring all the programs at a place where faculty members and students share, dare and care every way to think BIG, act BIG and achieve BIG through engagement to exchanges via this platform.

Health Care Scheme

All students at *nec* are insured for NRs. 1,00,000.00 (one hundred thousand) to cover the expenses for major ailments and injuries.

nec Alumni Association (*necAA*)

Nepal Engineering College Alumni Association (*necAA*) is a body of graduates from *nec*, established with the objective of maintaining continued linkage with the graduates by keeping track of their where about and professional engagements and growth.



Accommodation

On Campus Accommodation

nec runs a girls' hostel able to accommodate 70 students. The hostel has needed amenities for a simple decent living. The Girls' hostel is supervised by a senior resident lady administrative staff.

Off Campus Accommodation

Students may opt for private accommodation available at Duwakot, Jhaukhel, Changunarayan and Mulpani which lie within one km radius of the college. Rents vary depending upon amenities available. More information on off-campus accommodation can be obtained from the college administration.

Cafeteria

nec is managing two cafeterias which serve meals, snacks and beverages, catering to a variety of tastes and preferences at reasonable cost. In addition to the college cafeterias a number of entrepreneurs operate eateries close to the college premises that serve food, snacks and beverages to the students and staff.

Coffee Shop

A coffee shop, located within the premise of the academic block A, serves tea, coffee, soft-drinks and bakery to the college community. This has been a convenient place for someone looking for quick refreshment.

Transportation Facility

A fleet of buses managed by the college provides transportation to the students, faculty and staff. The buses operate from designated locations along prescribed routes, covering major locations of student concentration in Kathmandu, Bhaktapur, Lalitpur and Kavre. Students are required to obtain a bus pass, upon payment of the prescribed fees to use the college buses for daily commuting.

nec Clinic

nec Clinic provides health care services to students and employees, including minor injuries and first aid treatment.







Programs **Offered**

Bachelor Level Programs

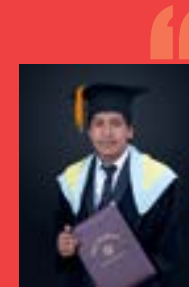
The following Bachelor level programs are currently underway at **nec**:

B. E. Civil Engineering

nec has been offering Bachelor program in Civil Engineering since 1994. The objective of the course is to train qualified Civil engineers to deal with design, construction, operation and maintenance of physical infrastructure and services. The students opting for this course undergo theoretical and practical learning in the areas of material engineering, structural engineering, environmental engineering, transportation engineering, water resources engineering, geotechnical engineering and surveying, so that they systematically develop theoretical learning and needed analytical and hands-on skill to deal with, and cater to, wide ranging infrastructure development tasks.



Faculties and Staffs of Department of Civil Engineering



Joining **nec** has been the right decision I have taken in hopes of perusing my dreams of civil engineering. It has been a major keystone to harness my skill through its disciplinary yet friendly environment. **nec** has best facilities under one roof, best equipped lab, well stocked libraries, sophisticated structural labs, and computer labs with high speed internet, interactive classes with professional lectures and sufficient facility for extra curriculum activities. It has been a key factor in developing my social skills along with imagination and creativity. Thank you **nec** for this wonderful platform.

Puran Shrestha (014-023)



I am really glad to appreciate **nec** where I got a good practical based platform to get mastery on my subject. This college always gave tremendous opportunity to sharpen our skills and pushed us to explore outer world. I am confident that, I can compete anywhere with the knowledge, skills and personality I gained here. Thus, I enjoyed learning about student involvement and activities, and my regret is only I won't get these days back. The head team along with our faculty's perseverance, integrity and people loving nature are the one which would inspire me every moment.

Prames Shah (014-079)



Peaceful environment, sophisticated labs, commodious and safe infrastructures, veteran teachers and plethora of ways to gain knowledge are the key attributes of Nepal Engineering College (**nec**). Our seasoned teachers from different faculties not only provide us theoretical knowledge but also inculcate us with its pragmatic approach which will be needed in our future. I find myself lucky

to be the part of such huge organization and will always rejoice the time I have spent in that college. A student who is willing to have an exhaustive knowledge of both urban and rural engineering should definitely opt Civil and Rural Engineering. It provides a platform to explore new horizons of not only civil part but also different aspects of rural engineering.

Amit Taylor (013-804)



I am grateful to the opportunities that **nec** bestowed upon me. The teaching methodologies are backed by practical implementations as well as industry interfacing. Being a Computer Engineering graduate, I feel like the exceptional training that I received at **nec** allowed me to be hired by one of the top companies in Nepal before graduating itself. Even after graduation, I have

never found myself short of continued guidance and mentoring from my professors. The dedicated management team and enthusiastic faculty have made the student's interests a priority and created an environment where learning is practical, interesting and applicable. I wish success to the college and the students, who I am sure will find great careers and grow in leaps and bounds.

Rojina Deuja (013-328)



Faculties and Staffs of Department of Civil and Rural



Faculties and Staffs of Department of Computer Science and Engineering

B. E. Civil and Rural Engineering

In Nepal, endemic rural poverty, food insecurity and poor quality of rural life exist as outstanding development challenges. Inseparable relationship between agriculture and rural development demands that agriculture must be looked at from a stand point of holistic rural development. Strong inter-linkages exist among technology, infrastructure and services, producing positive impacts to rural economy and quality of rural life. This has created demand for cadre of technical manpower who could apply the knowledge of engineering and technology in rural development. **nec** started bachelor program in Civil and Rural Engineering from 2008 which is a unique initiative in the country and in the region. The graduates of the Civil and Rural Engineering are serving in numerous government and development agencies working in the areas of rural infrastructure development, natural resources management, agro-industries and rural credit institutions, apart from conventional Civil Engineering related development projects.

B. E. Computer Science & Engineering

Rapid development in microelectronics and computer science has created the need for specialized manpower that could fuse these two cutting-edge technologies. This fusion of knowledge and technology has led to the evolution of a highly specialized professional field in Computer Engineering. Computer Engineers have wide ranging career options in business, industries, production and service sectors and in IT-industries.

Realizing the ever growing need of Computer Engineers within the country, and also rapidly growing employment prospects abroad, **nec** started Bachelor program in Computer Engineering beginning academic year of 1999. The program uniquely combines the broad knowledge of programming and electronics with the specialist skills in software and hardware design and interfacing.

B. E. Electronics and Communication Engineering

The last three decades have witnessed phenomenal growth in electronics and communication, from terrestrial to microwave and broadband communication. The growth is expected to be still more vigorous, involving higher levels of sophistication, technology and skills in the days to come. This has created avenues for specialized human resources who could be engaged in design, development, operation and maintenance of electronic circuits and devices for diverse communication needs. Realizing the emerging needs for professionally competent human resources in this area, within the country, **nec** started Bachelor program in Electronics and Communication Engineering beginning from the academic year of 1999. The objective of the program is to train the students with needed competence in design, testing and application of electronic devices and their applications in arrays of households, industrial and communication applications.

B. E. Electrical and Electronics Engineering

Electrical engineering deals with the problems associated with large scale electrical systems, such as, electricity generation, transmission and distribution, while electronics is concerned with low voltage applications in computers, communication systems and integrated circuits. The advancements in power transmission system and diverse uses of electricity in different walks of life have created demand of blending of these two disciplines and developing breeds of engineers who have knowledge and skills in both the areas. Realizing the need of such manpower, **nec** started Bachelor program in Electrical and Electronics Engineering beginning from the academic year of 2006. The graduates are expected to avail career opportunities in the agencies concerned with generation, transmission and distribution of electricity, alternative/renewable energy, communication, manufacturing and service sectors.



Faculties and Staffs of Department of Electronics and Communication Engineering



Faculties and Staffs of Department of Science and Humanities



Faculties and Staffs of Department of Electrical and Electronics Engineering



I feel contented that I had the opportunity to study in **nec**. I believe, **nec**'s interactive and lenient nature of faculty members, profound knowledge in their respective discipline and enthusiastic involvement in projects have been crucial factors to maintain my fascination. We also got opportunities to get involved in Project Exhibitions and also publish a research paper in collaboration with scholarly teachers. College's dedication to provide quality education will certainly be helpful for upcoming students. I hope, every freshman will have the same experience as I had in the college. Thank you!

Bhojraj Thapa(014-444)



As a biology group student and not having Mathematics in 12th grade, I opted **nec** as a best option to pursue undergraduate engineering study. **nec** has a rich history of producing quality engineers excelling in both industry and academia. I am thankful to study B.E. in Electrical and Electronics Engineering in **nec** which prepared me to struggle in the research area of future power grids and pursue

a successful career.

Samrat Acharya (09-650)

PhD Student at New York University, USA



I chose to pursue graduate degree in architecture as I am very much passionate about being creative and practical. Architecture was really challenging at first, as there was so much to learn, but I got my confidence from the teachers who were really experienced and encouraging. I'm also thankful for the national exposure provided by Asian Paints competition opportunities during my time at **nec**. If you enjoy being creative and solving problems, then architecture is definitely worth pursuing as a career.

Eliza Shrestha(013-218)



After completing Diploma in Civil Engineering, I was searching for a college to study Bachelor in Civil Engineering. Being a job holder, nec-BDH was the best college to pursue my studies where I could attain college during evening session. At **nec**-BDH, I found all the teaching faculties as well as non teaching staffs very friendly. The lecture classes were so effective that I

forgot all my tiredness of day's work at office. The practical classes were conducted simultaneously so that synchronization of theoretical knowledge with practical illustration helped me to understand the course content very well. The Continuous Assessment System (CAS) is the strong point of **nec**-BDH that it always enhanced my attitude and habit to cope with the examinations, so, I was able to score better grades in the University Examinations.

Sabin Silwal (013-35)



Faculties and Staffs of Department of Architecture

B. Architecture

The Bachelor program in Architecture, leading to B. Arch. (Bachelor of Architecture) degree is a five years course that aims to provide systematic knowledge and skills in planning, design and conservation of buildings and other built forms with concerns for aesthetics, comfort, durability, social responsiveness and integration with natural and manmade landscapes. The area of instruction covers a spectrum of courses relating to architectural design and planning, structural design, landscape management, interior design, building construction and conservation of urban spaces and built forms. The program has been designed to meet international standards in Architecture education, preparing the students to become competent professionals for work in Nepal and abroad. The students have the opportunity to gain competence in both hand-drawing and computer graphics to enable them to excel in the competitive professional environment. A full semester of apprentice in an architect's office helps prepare them to tackle professional challenges before graduation. The final semester is dedicated to a thesis project wherein the students are expected to accomplish an architectural design project independently.



nec-BDH Program faculties and staff members

B. E. Civil For Diploma Holders (**nec**-BDH)

Bachelor course in Civil Engineering for Diploma Holders is designed to train competent graduates in Civil Engineering who join the course after the completion of diploma level education in Civil Engineering or Architecture. The students joining the course undergo systematic theoretical and practical learning in basic sciences, material engineering, structural engineering, water resources engineering, geo-technical engineering and transportation engineering. This provides the students opportunity to develop knowledge and skills to take up an array of infrastructure development tasks where civil engineers have an important role to play. Upon successful completion of the course, the students are awarded Bachelor of Engineering degree in Civil Engineering by Pokhara University. **nec** started offering this program from 2000 AD; currently it is located at **nec** BDH, Lagankhel, Lalitpur.

Masters' Programs

nec entered a phase of vertical academic growth in engineering and allied sciences with the initiation of postgraduate programs beginning from 1999. The postgraduate programs are tailored to meet the demand of specialized manpower in different sectors of

nec Center for Postgraduate Studies (nec CPS)

All the postgraduate courses are organized at the Center for Postgraduate Studies (**nec-CPS**) located at Lagankhel, Lalitpur.

The formation of **nec** Center for Postgraduate Studies (**nec** CPS) in 1999 was a significant milestone and commitment of **nec** towards vertical growth of its educational agenda. Four postgraduate courses leading to M.Sc. (Master of Science) degree in Construction Management (CM), Interdisciplinary Water Resources Management (iWRM), Natural Resources Management (NRM), and Transportation Engineering and Management (TEAM) are offered at present.

M. Sc. in CONSTRUCTION MANAGEMENT (CM)

Construction is an essential activity for the continued development of a nation. Rapid growth in construction, engagement of specialized human resources and rapid changes in the physical infrastructure development and technology have all transformed this sector into an industry that demands highly specialized manpower to organize and manage the construction works. M. Sc. program in Construction Management intends to produce managers capable of using state of art, knowledge and skills in organizing and managing the construction works by enhancing technical and professional skills.

M. Sc. in NATURAL RESOURCES MANAGEMENT (NRM)

The program focuses on the importance of sustainable management of natural resources and also emphasizes on the connection and the ability to communicate between different disciplines and actors. This is designed for those who wish to develop their career in the areas of conservation and management of natural resources. Upon completion of the program the graduates qualify for wide ranging administrative and technical positions with the government agencies and non-governmental organization engaged in forest management, watershed management, water resource management, urban and rural planning. It aims to produce graduates with adequate knowledge and skills to be competent natural resources managers, executives or entrepreneurs capable of becoming change agents in the corporate and social field.



M. Sc. in INTERDISCIPLINARY WATER RESOURCES MANAGEMENT (iWRM)

Water related issues continue to remain at the center of development debate around the world. Water issues are intricately linked to livelihood and well being of people, and have even much broader and often far reaching social, political and economic implications. The governments, planning and development agencies, researchers and academicians are now adequately convinced that solution of water related issues in development, and its use and management require multifaceted approach. This course is designed to address the issues in water resources management through education, research and knowledge dissemination following interdisciplinary approach. It aims at producing professionals with interdisciplinary knowledge and skills and capacity to respond to emerging challenges in water resources management.

M. Sc. in TRANSPORTATION ENGINEERING AND MANAGEMENT (TEAM)

The concept of global village was realized mainly due to efficient transport facilities. Natural endowment of resources and competitive



The 2 years duration of studying in **nec**-CPS was a wonderful experience for me which has helped me for the attainment of a high level of competence and dedication in my ongoing professional career. I would like to convey my deepest gratitude to all the professors, lecturers and the faculty members of **nec**-CPS who were always ready to assist me whenever I had trouble with my study. Their continuous guidance, advice and encouragement made it possible for me to grab the Deans List and the Chancellors Award.

Sushil Timalsena (M. Sc. CM, 2017 Batch)



When I got enrolled in M.Sc. NRM at **nec**-CPS, I got into contact with professional circles from various field and institutions studying there. The diversity of experienced students and faculties always helped me to think of the issues in broader way. In this way, I got an opportunity to learn about the success and failure of their professional lives. The knowledge learnt from the college and colleagues has helped me to become professional and act wisely.

Shravan Kumar Ghimire (M.Sc. NRM, 2017 Batch)



During my Bachelors, interest in water subjects had already convinced me to pursue post-graduation in Water Resource Engineering. After my graduation in civil and rural engineering, I wanted to continue my studies. So after taking suggestions from seniors graduates, I joined M.Sc. iWRM. After completing this course I realized that engineering is just one dimension and there are many other dimensions (Social, economic, environmental) which affect in the management of water resource projects. This course taught me how to analyze any water related issues from different dimensions. I feel proud that I decided to choose M.Sc. iWRM in my postgraduate studies and confident in applying the knowledge acquired from this course in professional career onwards in coming days.

Mr. Bibhushan Khadka (M. Sc. iWRM, 2017 Batch)



After joining **nec**-CPS programme in TEAM, I was able to study through the guidance of a highly professional faculties in a wide range of course offerings and an engaging curriculum. It has provided me with some great research opportunities utilizing its extensive Library, Computing facilities and Laboratory services which interprets its high graduation rate and strong career services. This college has provided me with a great environment to “study while working” with its regular and effective evening classes. Finally I want to thank my college for this opportunity to “advance my education and career.”

Sagar Gautam (M.Sc. TEAM, 2017 Batch)

advantage of locations prompt increased volume of transport both of people and goods. Each nation, including Nepal, is investing heavily to connect inaccessible areas to the national transport networks. Yet, everyday movement in urban centers is hampered by congestion, insufficiency of public transport facilities, traffic accidents, and other conditions. Rural transport facilities remain inadequate and fragile. Thus, the issue of transportation continues to be crucial. The TEAM program aims to expose students to resolve all transport related problems, in the rural and urban areas. The coursework and research activities equip students with an advanced competence in designing transport facilities and their operation, maintenance and management.

Research Management Cell (RMC)

The RMC at **nec**, located at **nec**-CPS premises, organizes, coordinates and consolidates faculty and students’ research activities in the center. A Research Committee has been constituted to function as an independent apex policy advisory body. The RMC functions as the secretariat of the Research Committee through a full time Research Coordinator.

Proposed Master Level Programs

M.Sc. in Disaster Risk Management

Nepal faces multitudes of natural and human induced disasters that result in the loss of lives and properties worth millions of rupees annually. Disaster risks and the resulting damages can be minimized with preparedness to manage the disasters. Realizing the importance of education, research and knowledge dissemination in the area of disaster management, **nec** has taken the lead in proposing to commence Masters program in Natural Disaster Risk Management. Initiatives are underway at **nec** to develop instructional resources so that the course can be started shortly.

M.Sc. in Computer Science and Engineering

Master of Computer Science and Engineering program exposes students to a wide range of courses, combined with specialized research work which culminates in a thesis. This combination of courses gives students the required depth necessary for pursuing careers in academics, research and in the industry related to IT and computing. This course provides

the opportunity of higher education in the field of computer engineering in the country.

M.Sc. in Hydropower Engineering

The development of hydropower in Nepal has been rising significantly in recent days as the demand of electricity and establishment of new power plants increases to meet the lighting facilities and basic energy requirements for household as well as in meeting energy demand at the national level. In addition to the larger national projects, many small scale and rural community based hydroelectric projects have emerged as a boom in terms of rural electrification. M.Sc. in Hydropower Engineering will play a vital role to integrate economic, financial, social, and environmental disciplines and develop international level competent human resources.

Doctoral Programs

There is a great dearth of research manpower in the educational institutions and research organizations, especially in the areas of science and technology. Realizing this need, and with the experience of **nec** in offering Masters’ level courses for more than 19 years now, **nec** has proposed to start Doctoral level courses leading to Ph.D. degree. To begin with, the Doctoral programs in two areas- Natural Resources Management and Construction Management, have been proposed. The preparations are underway at **nec** to start the mentioned programs from the Pokhara University.

ACADEMIC ENTRY REQUIREMENTS

Bachelor’s degree having a minimum of 15 years of education with minimum second division (or equivalent) is necessary to apply for the courses. Bachelor degree holders in selected field of engineering for CM; civil engineering for TEAM; engineering, basic/applied/ natural sciences for iWRM and NRM are eligible to apply.

The duration of all M.Sc. programs is two years spread over four semesters, including fourth semester for the thesis writing. Of the total academic credit, the course work involves 45 credits and 15 credit hours are dedicated for an independent research on field based problems. All the courses have to be completed within 4 years, and additional one year can be given to thesis work.

Academic Information (Adapted from the Pokhara University)

Semester System & Course Registration

Semester system is followed in the instruction and evaluation of all the Bachelor and Masters level programs underway at **nec**. One semester normally spans over sixteen weeks. The Bachelor level programs generally extends over 8 semesters and B. Architecture which extends up to 10 semesters, while Masters' level courses can be completed in a minimum of 4 semesters. The students are required to register the courses at the beginning of the semester. The academic records are maintained based on the number of courses registered by the student in each semester.

Evaluation System

The Credit System

Each subject carries an academic credit based on instructional needs in theory, practical and tutorial classes. One credit normally means one hour of teaching in theory classes per week.

Student Evaluation

At the Bachelor level, the academic performance of the student is evaluated based on Continuous Internal Assessment (CIA) and End of Semester Examination conducted by Pokhara University. The scores in the internal evaluation (50%) and semester examination (50%) are added up to determine the total score obtained by the student in each subject which is then translated into letter grade. To pass a subject, a student must obtain a minimum of 45% marks in the internal and End of Semester examinations, separately.

In the Masters' level, the scores in the internal evaluation (60%) and semester examination (40%) are added up to determine the total score obtained by the student in each subject which is then translated into letter grade. To pass a subject at the Masters' level a student must obtain 60% marks in Internal Evaluation and Semester Examinations, separately.

Grading System

The grade awarded to a student in a subject is based on the students' aggregated performance in the internal and end of semester examinations. Pokhara University follows relative grading based on 4.0-point scale, as stated hereunder:

For Bachelor Level Programs:

Letter Grade	Grade Point	Description
A	4.0	Excellent
A-	3.7	
B+	3.3	
B	3.0	Good
B-	2.7	
C+	2.3	
C	2.0	Satisfactory
C-	1.7	
D+	1.3	
D	1.0	Satisfying minimum requirements for credits

For Masters' Level Programs:

Letter Grade	Grade Point	Description
A	4.0	Excellent
A-	3.7	
B+	3.3	
B	3.0	Good
B-	2.7	
C+	2.3	
C	2.0	Satisfying minimum requirements
F	0	Failing

In some cases a student is awarded a grade I (incomplete) when he/she fails to complete assignments or project work on time. This may be converted to the relevant grades upon completion of the needed requirements in the following semester. The failure to do so would automatically lead to awarding F (Fail) grade.

Attendance Requirements

The students are expected to attend all lectures, tutorials and practical classes. A minimum of 80% attendance of the student in all the lecture, tutorial and practical classes is the scholastic requirement in each subject. Failure to achieve required attendance in any of the subject may result in non-qualification to take the semester examination in that particular subject.

The aim behind establishment of **nec** is to produce technically competent engineering graduates ready to contribute in accelerated social and economic growth of the country.



Fee Structure

Tuition and Other Fees

Fee structure for 4 years B.E. Courses (Civil, Civil and Rural, Electrical, Electronics and Computer)

Particulars	NRs
Admission Fee	99,500.00
Tuition Fee (8 semesters @ Rs. 54,000)	4,32,000.00
Semester Fee (Affiliation, Registration, Examination, Lab, Infrastructure development & other expenses for 8 semesters)	4,62,000.00
Sub-total	9,93,500.00
Security Deposit (Refundable)	15,000.00
Grand Total	10,08,500.00

Fee structure for 4 & 1/2 years B.E. Courses (Civil Engineering for Diploma Holders)

Particulars	NRs
Admission Fee	99,500.00
Tuition Fee (9 semesters @ Rs. 54,000)	4,86,000.00
Semester Fee (Affiliation, Registration, Examination, Lab, Infrastructure development & other expenses for 9 semesters)	5,14,225.00
Sub-total	10,99,725.00
Security Deposit (Refundable)	15,000.00
Grand Total	11,14,725.00

Fee structure for 5 years B. Arch Courses (Bachelor of Architecture)

Particulars	NRs
Admission Fee	99,500.00
Tuition Fee (10 semesters @ Rs. 54,000)	5,40,000.00
Semester Fee (Affiliation, Registration, Examination, Lab, Infrastructure development & other expenses for 10 semesters)	5,69,000.00
Sub-total	12,08,500.00
Security Deposit (Refundable)	15,000.00
Grand Total	12,23,500.00

Notes:

- SAARC students can pay their fees in **US \$** equivalent to Nepali currency.
- The cost towards industrial placement, food and accommodations in the study tours, and all other costs shall be the responsibility of the students.
- Ten percent (10%) Rebate on total fee will be provided if student pays total/package fee in advance at the time of admission.

Schedule of Payment of Fees

Fee Structure (Without Rebate)

Fee at the time of admission for each course:	Full Amount (Rs.)
Admission Fee	99,500.00
Tuition Fee	54,000.00
Semester Fee (Affiliation, Registration, Examination, Education Service Tax, and other)	2,05,500.00
Sub-Total	3,59,000.00
Security Deposit (Refundable)	15,000.00
Grand Total	3,74,000.00

Semester Fee based on the performance in nec Entrance Test (nET - 2076)

Marks Obtained	Percentage rebate on tuition fee	Total fee at the time of admission	Fee for Remaining Semesters		
			4 Years B.E. Courses	4½ Years B.E. Courses	5 Years B. Arch Courses
			Per Semester	Per Semester	Per Semester
80% and above	50%	Rs. 3,47,000	Rs. 74,250	Rs. 74,961	Rs. 75,813
70 to 79%	35%	Rs. 3,55,100	Rs. 83,700	Rs. 84,218	Rs. 84,925
60 to 69%	15%	Rs. 3,65,900	Rs. 96,300	Rs. 96,561	Rs. 97,075
Less than 60%	No rebate	Rs. 3,74,000	Rs. 1,05,750	Rs. 1,05,818	Rs. 1,06,188

Notes:

- Students admitted in Civil Engineering, Civil and Rural Engineering and B.E. Civil Engineering for Diploma Holders programs must pay additional amount of **Rs. 25,000.00** for survey and geology camps at the time of admission.
- Students admitted in Electrical and Electronics Engineering need to pay an additional amount of **Rs. 7,000.00** as internship fee at the time of admission.
- Scholarships are available on tuition fee only.
- nec offers full waiver of tuition fee to the overall topper of nec Entrance Test - 2076
- Students must treat total fee as mentioned in the prospectus as a "package fee".
- If Pokhara University increases affiliation fee, registration fee, examination fee during the students study period, students are liable to pay accordingly.
- Security deposit will be refunded only after the completion of study period.

Scholarship Scheme, **Grants & Awards** for Undergraduate Programs

Scholarships for Bachelor level Programs by Pokhara University

nec offers full scholarship to 10% students as referred by Pokhara University. Such scholarship includes waiver of all fees (except the expenses towards Surveying and Geology Camps).

Provincial Scholarship

Under Provincial Scholarship Scheme, 7 students one from each province, passing SEE from Community or Public Schools under Nepal Government will be offered full scholarship. A separate examination will be conducted by **nec** to select the eligible candidates securing admission through nET. Each student gets to choose the program based on their secured position. Under this scheme only one seat is reserved in each program.

Founder Members' Scholarship

nec provides scholarship to cover full/partial expenses of students recommended by the Founder members.

Neighbourhood Scholarship

For Ward No. 1, 2, 3 & 4 of the Changunarayan Municipality and residents of the then Mulpani VDC, **nec** provides one full and two partial (50% on tuition fee) scholarship as Neighbourhood Scholarship. Under this scheme one full scholarship and two partial scholarship seats are allotted in different program for each neighbourhood and the selection of the program will be given on the basis of secured rank in nET 2019.

Scholarship for the wards of **nec** employees

Under this scheme different scholarships are provided to the wards of **nec** employee as governed by the college rules.

Note: Except for the students under the PU Scholarship, the students under other Scholarship schemes do not cover Affiliation, Registration and Examination fee. Further, prescribed security deposit has to be paid at the time of taking admission which is refundable.

Merit Scholarship

nec awards one merit scholarship to faculty topper students for every 48 students in each program in a semester. The scholarship covers full waiver of fees (excluding university fees). The topper of the first semester will get the scholarship in the second semester, the topper of the second semester will get this scholarship in the third semester and so on. The topper of the last semester will not get any scholarship as he/she will have graduated before the announcement of the result of the last semester. The decision for the award of merit scholarship is made after the final verification of the results.

Other Scholarships

Other scholarships instituted by donors, awarded to deserving students are:

- Shree Aashis Smriti scholarship instituted by Aashis Smriti Foundation: Rs. 2,500/- in tuition fee awarded to one deserving student in Civil Engineering.
- Shree P. K. Mainalee scholarship instituted by Ar. Padma Kumar Mainalee, an alumni of **nec**: Rs. 500/- per month to one deserving student in Architecture.
- Shree WAMDEO scholarship instituted by Prof. S. V. Sahashrabudhe from Pune, India: Rs. 1,800/- per year to one deserving student in Architecture.

Awards

- Chairman's Pride Gold Medal is awarded to one deserving student determined to be the overall undergraduate topper of the college.
- Subject awards are given to highest scoring students. The award consists of a certificate and a cash reward.
- Program topper awards will be awarded to one topper student in each undergraduate program.

All decisions pertaining to award and scholarships are made by a scholarship committee constituted by the college.

Note: Recipient of one scholarship is not eligible to claim any other

scholarship.

Rules for Retaining Scholarship Eligibility

All the students admitted under any scholarship scheme must comply with the eligibility conditions put up by Pokhara University.



Girls' Hostel Expenses

The cost of a double occupancy accommodation, inclusive of room rent, water and sanitation, is Rs. 9,000.00 plus Rs. 100.00 towards admission (sub-total Rs. 9,100.00) per student per semester. In addition the student has to pay security deposit (refundable) of Rs. 2600.00 at the time of admission. The actual cost of electricity is payable each month by the students. Students are provided a cot, a cupboard and one set of study table and chair. They need to bring mattresses, quilts/blankets, bed linen and pillow cover and other clothing on their own.

The average cost of Nepali food (two meals a day) served in the cafeteria generally amounts to an average of Rs. 6,000.00 per month.

Transportation Cost

Students intending to use the college transport must buy a semester bus pass upon payment of Rs. 8,000.00. The bus pass must be availed within two weeks of date of commencement of regular classes in each semester.

Rules applicable for the Payment of Fees

The general rules applicable for the payment of fees are as under:

- i. The stated fee structure is applicable for the intake of academic year 2076. All fees are subject to changes without prior notice.
- ii. Fees once paid are non-refundable, except the refundable deposits and the tuition fees paid in advance.
- iii. Semester fees must be paid before beginning of each semester.
- iv. Students must re-register before the commencement of each Semester. Students will not be allowed to take classes before re-registration.



DISCIPLINARY CODE

Students' Responsibility

Students admitted to the college are expected to adhere to the disciplinary code of conduct prescribed by the college, as stated hereunder:

- i. The students must fulfill the obligation to discharge their duties with diligence, fidelity and honor.
- ii. Student must have their own laptop during the computer lab class.
- iii. Maintain socially acceptable standards of morality.
- iv. Show proper respect and courtesy to seniors, teachers and staff, on or off the campus, at all times.
- v. Contribute to maintaining peace and harmony and learning environment in the college.
- vi. Be clean and tidy and follow the prescribed college dress codes.
- vii. Strictly adhere in the obligations not to:
 - Disturb the peace nor destroy, damage or remove the college property
 - Indulge in violence in any form, nor to pick up arguments with strangers
 - Possess, consume and distribute harmful chemicals and substances, including alcohol and narcotics;
- viii. Student must realize that violation of the prescribed codes, in any form, may be sufficient reason to bar their entry to the college or even terminate their admission in the college.

Loss or Damage made by student/s

Students found responsible for the loss or damage of the college property, individually or in groups, is/are liable to pay full damage. Losses can be recovered from his/her security deposit if it covers, if it does not cover, it will be recovered by legal procedure as per government regulations.

Termination / Suspension or Expulsion

A student may be asked to leave the college for good, or may be suspended for one or more semesters, for any or more of the following reasons:

- College can reconsider to de-register the registration if the student doesn't clear at least 60% subjects at the end of fourth semester.
- When his/her conduct is unsatisfactory.
- When his/her ability to fulfil the academic requirements prove unsatisfactory.
- When his/her academic performance is unsatisfactory.
- When payment of fees are not paid within the prescribed due dates.
- When s/he is found participating in activities or acts which are prejudicial.
- When suitable response is not made by his/her parents/guardians to the communications sent by the college or when parents/guardians withdraw their wards in writing.
- When the information provided in the application for admission is found incorrect.
- When his/her activities are found detrimental to the interest of the college.
- When s/he is disobedient or disrespectful towards the faculty members.
- When found consuming alcohol, drugs and narcotics and indulging in gambling or other immoral acts.

Declaration by the students

The students have to sign the following declarations before admission. They should follow strictly the terms as declared during his/her study period.

- All the personal information about father/mother and local guardian and their contact numbers provided by me are correct.
- I got admission in **nec** after being well informed about the details of the total fee to be paid to **nec** and I will pay all college dues accordingly in time.
- During the period of my study, I will abide by the disciplinary rules of the college and I will not cause damage to any property of

the college, failing which I am liable to be penalized, expelled or suspended from the college and fined according to the damages caused.

- If the academic or other certificates submitted by me are found to be false, my admission would be automatically made null and void and I agree to forfeit all the amount paid at the time of admission.

Admission Cancellation

Requests for cancellation of admission shall be lodged by parents/ guardian/student in writing addressed to Principal and shall be submitted in college for seeking refund in the following cases:

- Provisionally admitted student's admission will be automatically cancelled if the student does not meet admission criteria set by Pokhara University after the publication of +2 results and the full amount paid at the time of admission will be refunded.
- Cancellation of admission before the start of session:
 - (a) Within 10 days of admission: The total fee deposited will be refunded after deducting NRs. 10,000/- as processing charges.
 - (b) Within 11 to 20 days of admission: The total fee deposited will be refunded after deducting NRs. 20,000/- as processing charges.
 - (c) Within 21 to one day prior to start of session: The total fee deposited will be refunded after deducting NRs. 30,000/- as processing charges.
- Cancellation of admission after the start of session and before one week prior to first date of university registration submission: The total fee deposited will be refunded after deducting NRs. 50,000/- as processing charges.
- In cases other than above, only security deposit, last semester fee and survey camp/internship fee will be refunded.
- Provisionally admitted students are required to fulfill all the documentation process within one week of publication of +2 (or equivalent) result. If the student fails to do so or found to have submitted fake documents, all the amount paid at the time of admission will be totally forfeited and no refund will be made.

Note: The management reserves all rights to make additions, alterations or modifications to, any or all, of the disciplinary codes stated above and bring about changes in the working hours and schedule of classes, without any prior notice. The students shall abide by the changes in the disciplinary codes and the changes to the rules and regulations made from time to time.

New Admissions

Admission to Bachelor Level Programs

nec will be admitting a maximum of 528 students (including all quotas) in the first year in the following Bachelor level programs for the academic year 2019.

Bachelor Degree Courses

Course	Total Seats
B. Architecture	48
B.E. (Civil)	144
B.E. (Computer)	96
B.E. (Electronics & Communication)	96
B.E. (Electrical & Electronics)	48
B.E. (Civil & Rural)	48
B.E. (Civil) for Diploma Holders	48
Total	528

Eligibility

The students seeking admission to the Bachelor level programs must have completed Higher Secondary (10+2) with Science (Physical & Bio-group) obtaining minimum C Grade in each subject or Diploma in Engineering or equivalent from a recognized institution securing at least second division marks with mathematics (100 marks or 3 credit hours) as one of the subjects.

The students seeking admission to B.E. (Civil) for Diploma Holders program must have completed certificate (Diploma) level course in any Engineering or Architecture from a recognized institution securing at least second division marks.

Admission Procedure

Nepalese Students

The admission granted to the Nepalese students shall be merit based, evaluated on the basis of their performance in **nec** Entrance Test (**nET-2019**). The entrance test will be paper based on multiple choice questions covering different areas mentioned in the table below:

Course	Percent
Physics	25
Chemistry (Not applicable for B. Architecture)	15
Mathematics	40
English	20
Aptitude Test for B. Arch (In place of chemistry)	15
Total	100

Foreign Students

Foreign students may be granted admission based on the academic scores in the qualifying examination and/or interview. They should submit application, along with all necessary credentials, addressed to the Principal of **nec**.

B.E. Civil for Diploma Holders Program:

nec Entrance Test (**nET- BDH - 2019**)

The Entrance Test will be paper based with multiple choice questions covering above subjects. Admission will be granted on merit based performance of the candidates in the entrance test.

Syllabus for entrance test will be as follows:

S.N	Subject	Marks	Time
1	Physics	30	Total 2 Hours
2	Chemistry	15	
3	Mathematics	40	
4	Strength of Material & Theory of Structures	30	
5	Surveying	30	
6	Building Materials and Construction	30	
7	English	25	
	Total	200	

Admission to Masters' Level Programs

Admissions to Masters' level programs shall be in accordance with the academic qualifications and admission procedures prescribed for the specific courses. Prospective students are advised to contact the college administration for the needed details. Admission related informations are also available in the information brochure of **nec**-CPS.

Master Degree Courses

Course	Total Seats
M. Sc. (Construction Management)	30*
M. Sc. (Natural Resource Management)	30
M. Sc. (Inter Disciplinary Water Resource Management)	30
M. Sc. (Transportation Engg. & Management)	30
Total	120

*administered twice a year



nec Entrance Test (**nET - 2019**) for bachelor level programs
on **25th Shrawan 2076 (10th August 2019)**, Saturday.

How to take **admission**?

STEP 1

Think about what you really want to know - not just about your course, but about future prospects! Call the given helpline numbers or email us for your queries. You can also schedule meeting with our college representative to clarify any doubts.

STEP 2

Fill up the admission form with at most 3 preferred programs (BE or B. Arch) and appear for the **nec** Entrance Test 2019 (nET-2019).
Visit www.nec.edu.np for your nET 2019 result and verify your name in the merit list and program. There will be separate entrance test for M.Sc. and B.E. Civil for Diploma Holders.

STEP 4

(Applicable for program transfer applicants) In case the student doesn't get transferred to the desired program, he/she might chose to stay in the admitted program or can cancel the admission with full refund with in 10 days.

STEP 3

Successful candidates can take admission by verifying their documents and depositing the admission fee. In case your name doesn't appear under the preferred program, you can still take the admission in the program where you have been qualified and submit an application to transfer your name to your preferred program. If someone takes admission in his/her preferred program, the cancellation of admission will be governed by admission cancellation rules of the college.



Activities & **Educational Tours**

2019 Sports Week



2019 Sports Week



Educational **Tour**



Activities



Activities



Non-teaching Staff Training at nec



Receiving token of love from Mayor (Bkt) at World Heritage Day



Personal Efficiency for Organizational Excellence Training at nec



Administrative Staff Training Program at NASC, Jawalakhel



nec modality report submission to MoE



Nepal Engineering Council visit to nec



Faculty Skill Development Program at NASC, Jawalakhel



SCITECH V13.1 Launch Program

From front Row-left: **Asst. Prof. Ram Prasad Suwal (Media Officer)**, HoD-Civil Engineering Dept. **Asst. Prof. Dibyashree Lohani Poudyal**, Academic Co-ordinator **Asst. Prof. Mohan Dhoja K. C.**, **Principal Prof. Dr. Hari Krishna Shrestha**, Vice-Principal **Assoc. Prof. Deepak B. Dhimi**, nec-CPS Director **Prof. Khem Raj Sharma** & General Administrator **Mrs. Shreema Sharma**. From middle Row-left: **Students' Welfare Division Chief Asst. Prof. Sankalp Pokharel**, Finance Controller **Mr. Ram Kumar Shrestha**, HoD-Civil & Rural Engineering Dept. **Jr. Prof. Yaman Dhakal**, HoD-Electrical & Electronics Dept. **Asst. Prof. Narayan Acharya**, HoD-Science & Humanities Dept. **Asst. Prof. Siddhi Prasad Pradhananga** & Exam Division Chief **Assoc. Prof. Rosina Mali**. From back Row-left: **Computer Science & Engineering Dept. Asst. Prof. Dinesh Dangol**, Program Coordinator -Civil Engineering Dept. **Raghu Nath Prajapati**, HoD-Architecture Dept. **Assoc. Prof. Baburam Bhattarai**, HoD-Electronics & Communication Engineering Dept. **Asst. Prof. Rupesh Dahi Shrestha**, nec-BDH Program Co-ordinator **Assoc. Prof. Rabindra Kumar Budhahoki** & Staff Representative **Mr. Manohar Khanal**.

Faculty Members

Department of Civil Engineering

Professors



Hari Krishna Shrestha (NEC reg. 1969 Civil)
(Principal)
D. Engg., Ehime University, Japan, 2006
M.S. (Hydrology), New Mexico Institute of Mining and Tech., USA, 1992
B.S. (Hydrology), Tarleton State University, USA, 1990
Research Interest:
Disaster Preparedness, Groundwater Modelling



Deepak Bhattarai (NEC reg. 2613 Civil)
(Executive Director, nec CPS & Member of Governing Board)
PhD, Tribhuvan University, 2005
M.Sc. (Construction Mgmt.), Loughborough University of Technology, UK, 1990
B.E. (Civil), REC, Rourkela, India, 1975
Research Interest:
Delay in the implementation of construction projects.

Associate Professors



Ram Sthapit (NEC reg. 368 Civil)
(Chief, Physical Planning & Infrastructure Division)
M.Sc. (Civil Engineering), Makeyevka Civil Engineering Institute, Ukraine, 1991
P.G. Course in Earthquake Engineering, Macedonia, 1997
Research Interest:
Detail Design of Building Structures



Rosina Mali
(Chief, Exam Division)
M.Sc. (Geology), Tribhuvan University, 1996
Research Interest:
Engineering Geology



Hari Mohan Shrestha (NEC reg. 2520 Civil)
M. Sc. (Construction Management), nec, PU, 2001
B.E. (Civil), University of Baguio, Philippines, 1995
Research Interest:
Management Construction Projects



Ramesh Khanal (NEC reg. 460 Mechanical)
M.Sc. (Industrial Management), UPM (Spain), POLIMI (Italy) & KTH (Sweden), 2008
B.E. (Mechanical), IoE, Pulchowk Campus, TU, 2003
Research Interest:
Quality Management

Assistant Professors



Mohan Dhoja K.C. (NEC reg. 4767 Civil)
(Academic Co-ordinator)
M. Sc. (Transportation Engineering & Management), nec, PU, 2013
M.A. (Sociology and Anthropology), TU, 2008
B.E. (Civil), IoE, Pulchowk Campus, TU, 2006
Research Interest: Pavement Design



Dibyashree Lohani Poudyal (NEC reg. 4050 Civil)
(Head of Department)
M.Sc. (Structural Engineering), IoE, Pulchowk Campus, TU, 2010
B.E. (Civil), nec, Pokhara University, 2004
Research Interest:
Response Analysis, Structural Design

Assistant Professors



Raghu Nath Prajapati (NEC reg. 4441 Civil)
(Program Co-ordinator)
M.Sc. (Water Resource Engineering), IOE - Pulchowk, 2011
B.E. (Civil), Khwopa Engineering College, PU, 2005
Research Interest:
Run off River, GIS, Water Resource



Ajay Khadka (NEC reg. 5598 Civil)
(Chief, Maintenance and Construction Division)
M.Sc. (Construction Mgmt.), nec, PU, 2018
B.E. (Civil), nec, PU, 2007
Research Interest:
Earthquake Engineering



Dibangar Khotaja
(On study leave)
M.Sc. (Geotech Engineering), IoE, Pulchowk Campus, TU, 2012
B.E. (Civil), IoE, Pulchowk Campus, TU, 2005
Research Interest:
Soil and Rock Stabilization with New Technique



Sanjay Kumar Kawan (NEC reg. 4650 Civil)
M.E. (Earthquake Engineering), Khwopa Engineering College, PU, 2018
B.E. (Civil), Khwopa Engineering College, PU, 2005
Research Interest:
GIS



Sunil Khyaju (NEC reg. 6472 Civil)
M.Sc. (Transportation Engineering), IoE, Pulchowk Campus, TU, 2012
B.E. (Civil), IoE, Pulchowk Campus, TU, 2010
Research Interest: Traffic Modelling & Simulation



Bibhuti Ojha (NEC reg. 5503 Civil)
M.Sc. (Water Engineering Management), AIT, Thailand, 2013
B.E. (Civil), nec, PU, 2007
Research Interest:
Water Economics, Water Law



Ramesh Gnawali (NEC reg. 5700 Civil)
M.Sc. (Structural Engineering), IoE, Pulchowk Campus, TU, 2011
B.E. (Civil), IoE, Pulchowk Campus, TU, 2009
Research Interest:
Shear Strengthening and Nonlinear Finite Element (NLFE) Analysis of RC



Sushil Acharya (NEC reg. 5208 Civil)
MBS, TU, 2014
M.Sc. (Geotech Engineering), IoE, Pulchowk Campus, TU, 2011
B.E. (Civil), Pokhara Engineering College, PU 2007
Research Interest:
Soil and Rock Stabilization, Earthquake Tunnelling



Ramhari Shrestha (NEC reg. 7324 Civil)
M.E. (Earthquake Engineering), Khwopa Engineering College, PU, 2015
B.E. (Civil) nec, PU, 2011
Research Interest:
Earthquake Engineering, (Seismic Risk Analysis, Seismic Loss Estimation), GIS Based Seismic Risk Analysis

Assistant Professors



Bishnu Chaudhary (NEC reg. 133 Industrial)
M.Sc. (Industrial Engineering), Norwegian University of Science & Technology, 2015
B.E. (Mechanical), IoE, TU, 2011
Research Interest:
Sustainability Logistics, Industrial Engineering and Innovative Entrepreneurship



Deepak Parajuli (NEC reg. 1790 Mechanical)
(On study leave)
M.E. (Industrial and Manufacturing Engineering) AIT, Thailand, 2015
B.E. (Mechanical), Meenakshi University, Chennai, Indian, 2012
Research Interest:
Rapid Prototyping, Manufacturing
Niswan Dhakal (NEC reg. 1272 Mechanical)
Research Scholar NTU, Singapore 2012-2014
B.E. (Mechanical), IoE, Pulchowk Campus, TU, 2009
Research Interest:
Nanotechnology, Robotics, Energy and Process Optimization



Prem Prakash Aryal (NEC reg. 985 Mechanical)
M. Sc. (Renewable Energy Engineering), IoE, Pulchowk, TU, 2017
B.E. (Mechanical), IoE, Pulchowk Campus, TU, 2009
Research Interest:
Energy, Environment and climate Change



Binay Shakya (NEC reg. 7449 Civil)
M.Sc. (Water Resources Engineering), Katholieke University Leuven, Belgium, 2016
B.E. (Civil), nec, PU, 2010
Research Interest:
Surface and Groundwater Hydrology, River Analysis



Sushil Adhikari (NEC reg. 7519 Civil)
M.E. (Earthquake Engineering), Khwopa Engineering College, PU, 2018
B.E. (Civil), KEC, TU
Research Interest:
Response of ground motion in Structure



Rajiv Manandhar (NEC reg. 7824 Civil)
M.Sc. (Structural Engineering), IoE, Pulchowk Campus, TU, 2011 BS
B.E. (Civil), IoE, Pulchowk Campus, 2008 BS
Research Interest:
Buildings and Bridges



Amrendra Swarnakar (NEC reg. 14468 Civil)
M.E. (Structural Engineering), JNTUK University, India, 2019
B. Tech (Civil Engineering), JNTUK University, India, 2016
Research Interest:
Steel Structures, Plate and Shell



Manoj Poudel (NEC reg. 1352 Mechanical "A")
M.S. (Mechanical and Aerospace Engineering) University of Missouri-Columbia, USA, 2018
B.E. (Mechanical), IoE, Pulchowk Campus, TU, 2012
Research Interest:
Computational Fluid Dynamics, Multiphase Flows, HVAC, Renewable Energy Technologies, Machine Learning



Shushil Giri (NEC reg. 8533 Civil "A")
M.Sc. (Geotechnical Engineering), IoE, Pulchowk Campus, TU, 2011

Research Interest:
Soil consolidation and settlement, Stabilization of soil, Slope stability, Retaining walls

Junior Professors



Nirmala Bokati (NEC reg. 11282 Civil)
M.Sc. (Geotechnical Engineering), IoE, Pulchowk Campus, TU (Awaiting result)
B.E. (Civil), Kantipur Engineering College, TU, 2014
Research Interest:
Rock slope stability



Rajesh Bhattarai (NEC reg. 11827 Civil)
M.Sc. (Water Resource Engineering), IoE, Pulchowk Campus, TU (Ongoing)
B.E. (Civil), nec, PU, 2014
Research Interest:
Ground water modelling River Hydraulics



Pitambar Wagle (NEC reg. 16026 Civil "A")
M.Sc. (Water Resource Engineering), IoE, Pulchowk Campus, TU (Ongoing)
B.E. (Civil Engineering), IoE, Pulchowk Campus, TU, 2016
Research Interest:
Hydropower development, Hydrological analysis



Sandip Thakur (NEC reg. 3722 Mechanical)
M.Sc. (Mechanical System Design), IoE, Pulchowk Campus, TU (Ongoing)
B.E. (Mechanical Engineering), IoE, Pulchowk Campus, TU, 2017
Research Interest:
Mechanical System Design and Analysis

Junior Instructors



Anju Khotaja
Diploma in Mechanical Engineering, IoE, Thapathali Campus, T.U., 2010



Sushil Shrestha
Diploma in Mechanical Engineering, Tribhuvan University, 2069 BS
Research Interest:



Prabhakar Bist
Diploma in Civil Engineering, CTEVT Nepal, 2013
Research Interest:



Nirajan Raj Chaudhary
Diploma in Civil Engineering, Acme Engineering College, CTEVT, Nepal, 2008

Department of Civil & Rural Engineering

Professors



Dr. Ganesh Sah (NEC reg. 221 Agriculture)
Ph.D., Conservation Agriculture, TU, 2016
M. E. (Ag.), Farm Machinery and Power, Tamilnadu Agricultural University, Coimbatore, India, 1992, B. Tech. (Ag. Engg.), Processing and Agricultural Structures, Punjab Agricultural University, Ludhiana, Punjab, India, 1983
Research interest: Farm Power and Machinery & Resource Conservation Technologies

Assistant Professor



Sanjeev Bikram Shah (NEC reg. 08 Civil & Rural)
M.Sc. (Geotechnical Engineering), IoE, Pulchowk Campus, TU, 2016
BE (Civil and Rural), nec, PU, 2013
Research interest: Slope Stabilization, Tunneling



Sunil Shrestha (NEC reg. 11691 Civil)
M.Sc. (Construction Management), nec, PU, 2019
B.E. (Civil), Cosmos College, PU, 2014
Research Interest: Advanced technology for development of masonry structure



Binay Kumar Sah (NEC reg. 11740 Civil)
M.Tech. (Structural Engineering) JNTUK, India, 2017
B. E. (Civil) Sri Krishna Institute of Technology, India, 2014 2013
Research interest: RC Buildings, Masonry Buildings, Seismic Analysis, Non-Linear Static Analysis

Junior Professor



Yaman Dhakal (NEC reg. 40 Civil & Rural)
(Head of Department)
M.Sc. (Construction Management), nec, PU, 2019
BE. (Civil and Rural) nec, PU, 2013
Research interest: Material management system in construction industry



Dharma Raj Bagale (NEC reg. 152 Agriculture)
M.Sc. in IWRM, nec, Pokhara University, 2019
MA (Rural Development), Mid-Western University, Surkhet, 2016
B.E. (Agriculture), IOE, TU, Dharan, 2010
Research interest: Integrated Water Resource Management



Rakshyak Dhungel (NEC reg. 05 Civil & Rural)
M.Sc. (Geotechnical Engineering), IoE, TU, 2018
BE. (Civil and Rural) nec, PU, 2013
Research interest: Liquefaction modeling, Ground Improvement technique



Pratibha Parajuli (NEC reg. 15485 Civil)
M.Sc. (TEAM), PU (Ongoing)
BE. (Civil), IoE, TU, 2016
Research interest: Solution for Parking Problem, Congestion in urban area

Junior Professor



Anil Sapkota (NEC reg. 3465 Mechanical)
M.Sc. in Mechanical System Design and Engineering, Pulchowk, IoE, (Running)
B.E. (Mechanical), TU, 2017
Research Interest: Hydro turbines, Conceptual fluids Dynamic

Visiting Professor



Dr. Michael Templeton (UK)
(Chartered Civil Engineer and Reader Public Health Engineering in the Department of Civil and Environmental Engineering at Imperial College London)
PhD in Civil-Environmental Engineering University of Toronto, Canada
Bachelor's Degree in Engineering Science



Rakesh Dumar (NEC reg. 6489 Civil)
Ph.D., University of Porto, Portugal, Civil Engineering, 2018
M.Sc. (Structural Engineering), IoE, Pulchowk Campus, TU, 2011
B.E. (Civil), IoE, Pulchowk Campus, TU, 2009
Research Interest: Performance Assessment of Existing Infilled Reinforce Cement and Heritage building in Nepal

Department of Architecture

Professor



Vijay Burathoki (NEC reg. 190 Civil)
Master of Urban & Regional Planning, Virginia Polytechnic Institute and State University, USA, 1984
B.Arch., University of Roorkee, India, 1975
Research Interest: Vernacular Arch., Urban Planning

Associate Professors



Baburam Bhattarai (NEC reg. 117 Architecture)
(Head of Department)
M.Sc. (Urban Planning), IoE, Pulchowk Campus, T.U., 2008
B. Arch., nec, Tribhuvan University, 2002
Research Interest: Land Development, Infrastructure Planning



Yojana Tuladhar (NEC reg. 97 Architecture)
M.Arch., The Odessa State Academy of Civil Engg. And Architecture, Ukraine, 1996
Research Interest: Landscape Architecture



Krishna P. Bhuju (NEC reg. 1400 Civil)
M.Arch., Saint Petersburg State University of Architecture & Civil Engg. Russia, 1996
Research Interest: Landscape Architecture, Interior Design



Nhasala Sayami (NEC reg. 74 Architecture)
M.Sc. (Urban Planning), IoE, Pulchowk Campus, T.U., 2010
B.Arch., nec, Tribhuvan University, 2001
Research Interest: Urban Planning, Urban Change, Landscape Architecture

Assistant Professors



Ram Prasad Suwal (NEC reg. 535 Architecture)
(Media Relation Officer)
M. Sc. (Urban Design & Conservation), Khwopa Engineering College, PU, 2012
B.Arch., Khwopa Engineering College, PU, 2006
Research Interest: Urban Design and Conservation, Innovative Design,



Anil Kumar Regmi (NEC reg. 346 Architecture)
M.Sc. (Construction Management), Pokhara University, 2008
B.Arch., nec, Pokhara University, 2005
Research Interest: Construction Management, Land Development



Sankalp Pokhrel (NEC reg. 609 Architecture)
(Chief - Student Welfare and Extracurricular Activities Division)
M.Arch., Russian Peoples' Friendship University, Russia, 2004
B.Arch., Russian Peoples' Friendship University, Russia, 2002
Research Interest: Heritage Conservation, Traditional Architecture



Shyam Sunder Kawan (NEC reg. 471 Architecture)
M. Sc. (Urban Planning), University of Hong Kong, Hong Kong, 2012
B.Arch., Khwopa Engineering College, Purbanchal University, 2006
Research Interest: Urban Design, Built Environment



Samjhana Shrestha (NEC reg. 627 Architecture)
M. Sc. Engineering (Disaster Risk Management), IoE, TU, 2016
B. Arch., Kathmandu Engineering College, TU, 2009
Research Interest: Sustainable Architecture



Sharada Poudel (NEC reg. 1096 Architecture)
M. Sc. (Urban Planning), IoE, T.U., 2014
B. Arch, IoE, T.U., 2012
Research Interest: Sustainable Architecture and Urban Planning



Rujula Tamrakar (NEC reg. 741 Architecture)
M. Sc. (Urban Design & Conservation), Khwopa Engineering College, PU, 2014
B.Arch., Khwopa Engineering College, PU, 2010
Research Interest: Urban Design & Conservation



Usha Mandal (NEC reg. 15 Architecture)
M. Sc. (Urban Design & Conservation), Khwopa Engineering College, PU, 2016
B.Arch., nec, Tribhuvan University, 2001
Research Interest: Settlement Development and Conservation



Pujita Upadhyaya (NEC reg. 603 Architecture)
M. Sc. (Urban Design & Conservation), Khwopa Engineering College, PU, 2016
B.Arch., nec, Pokhara University, 2008
Research Interest: Conservation



Nabin Ghising (NEC reg. 676 Architecture)
M.Sc. (Construction Management), Pokhara University, 2018
B.Arch., nec, Pokhara University, 2009
Research Interest: Urban Design and Construction Management



Sweta Amatya Shrestha (NEC reg. 689 Architecture)
M. Sc. Engineering (Disaster Risk Management), IoE, TU, 2013
B. Arch., Kathmandu Engineering College, TU, 2009
Research Interest: Disaster Risk Management, Urban Context

Department of Science and Humanities

Professors



Dharani Dhar Regmi
Ph.D. (Math), Benaras Hindu University, 1987
M.Sc. (Math), T.U., 1972
Research Interest: Abstract Algebra, Module Theory



Sabitri Tripathi (Pandey)
M.Sc. (Chemistry), Tribhuvan University, 1991
Research Interest: Water treatment and sanitation

Associate Professor



Rabindra K. Budhathoki
(Program Officer, nec-BDH)
M.Sc. (Physics), Tribhuvan University, 1998
Research Interest: Advanced Solid State Physics, Particle Physics

Assistant Professors



Siddhi Prasad Pradhanang
(Head of Department)
M. Phil., Kathmandu University, 2013
M.Sc. (Math), Tribhuvan University, 1997
Research Interest: Applied Mathematics



Sulochana Pradhan (Shrestha)
M.Sc. (Chemistry), Tribhuvan University, 1993
Research Interest: Bio-inorganic Chemistry, Co-ordination Chemistry



Prabin Basnet
M.Sc. (Chemistry), Tribhuvan University, 2005
Research Interest: Electrochemistry

Department of Science and Humanities

Assistant Professor



Youb Raj Gaire
M.Phil., T.U. 2016
M.Sc. (Math), Tribhuvan University, 2007
Research Interest:
Integral Transform, Number Theory



Yadu Narayan Gaire
M.Sc. (Statistics), Tribhuvan University, 2010
Research Interest:
Econometrics



Kishor Dhungana
M. A., English, Tribhuvan University, 2008
Research Interest:
Cultural Studies



Bishnu Prasad Bhandari
M. Sc. (Mathematics), Tribhuvan University, 2009
Research Interest:
Mathematical Analysis



Umesh Bhattarai
M.Sc. (Math), Tribhuvan University, 2009
Research Interest:
Mathematical Analysis



Yuba Raj Poudel
M.Sc. (Physics), Tribhuvan University, 2011
Research Interest:
Surface Modification of Polymer (Plasma)



Dola Raj Pandey
M. Sc. (Mathematics), Tribhuvan University, 2011
Research Interest:
Partial Differential Equation



Lok Narayan Pokhrel
M. Sc. (Physics), Tribhuvan University, 2013
Research Interest:
Astrophysics, Cosmology

Assistant Instructor



Dilli Raj Paneru
B.Sc. (Physics), Tribhuvan University, 2011



Dhana Pd. Poudel
I.Sc., Tribhuvan University, 2008

Department of Electrical & Electronics Engineering

Associate Professor



Madan Raj Chapagain (NEC reg. 42 Electrical)
M.Sc. (Power System), IOE-T.U., 2006
B.Sc. (Electrical & Electronics) BUET, 1995
Research Interest:
Power System Automation & Smart Grid



Ajaya Lal (NEC reg. 850 Electrical)
IEEE Reg. 94334313 P. Engg., South Asia Region-10.
M.Tech. (Electrical Power Engineering), JNTUH, India, 2015
B.E. (Electrical Engineering), NIT, Allahabad, India, 2002
Research Interest:
Cascading Failure, ATC, Synchronized PMU, Security System

Assistant Professors



Narayan Prasad Acharya (NEC reg. 481 Elix & Comm)
(Head of Department)
M.Sc. (Power Engineering), Brandenburgische Technische University Cottbus, Germany, 2011
B.E. (Electronics & Communication) nec, PU, 2003
Research Interest:
Solar Photo Voltaic System & Power System



Avinash Khatri KC (NEC reg. 1497 Elec & Elix)
M.E. (Master in Planning & Operation of Energy Systems), KU, Nepal, 2019
B.E. (Electrical & Electronics Engineering) KU, Nepal, 2016
Research Interest:
Distribution System, Distributed Generation



Ananda Tewari
M. Tech. (Power System Engineering) Lovely Professional University, 2015
B. Tech. (Electrical Engineering), Uttar Pradesh Technical University, India, 2012
Research Interest:
Fuzzy & Artificial Neural Network Technology, Flexible AC Transmission System, Control System Engineering

Junior Professors



A Tika Ram Regmi (NEC reg. 1055 Elec & Elix)
M.E. (Electrical Power Engineering), Kathmandu University, Nepal, 2017
B.E. (Electrical & Electronics Engineering), Kathmandu University, Nepal, 2014
Research Interest:
Distribution System, Distributed Generation



Sujan Acharya (NEC reg. 1719 Electrical)
B.E. (Electrical Engineering) IoE, Pulchowk Campus, T.U. Nepal, 2015
Research Interest:
Power System, Aircraft Engineering, Fuel Cell engineering

Department of Electronics & Communication Engineering

Associate Professors



Ganesh Adhikari (NEC reg. 283 Elix & Comm)
M.E. (Computer Engineering) B.E. (Electronics & Comm.), A.I.T. Engineering College, KUVEMPU University, India, 1995
Research Interest:
Integrated Digital Electronics, Instrumentation System



Durga P. Bhandari (NEC reg. 98 Elix & Comm)
M.Sc. (Information & Comm. Engineering), IoE, Pulchowk Campus, T.U., 2011
B.E. (Electronics), Nagpur University, India, 1998
Research Interest:
Integrated Electronics, VLSI

Assistant Professor



Rupesh Dahi Shrestha (NEC reg. 736 Elix & Comm)
(Head of Department)
M.Sc. (Information & Comm. Engineering), IoE, Pulchowk Campus, T.U., 2013
B.E. (Electronics & Comm.), nec, Pokhara University, 2005
Research Interest:
Robotics (Machine Intelligence), Digital Signal Processing, Embedded System Design



Amit Shah (NEC reg. 608 Electrical)
M.Sc. (Information & Comm. Engineering), IoE, Pulchowk Campus, T.U.
B.Sc. (Electrical Engineering), University of Engineering and Technology, Pakistan, 2004
Research Interest:
Integrated Circuits



Abinash Singh (NEC reg. 1029 Elix & Comm)
B.E. (Electronics & Comm.), Bangalore University, India, 2001
Research Interest:
Wireless Communication

Assistant Professors



Bijaya Shrestha (NEC reg. 907 Elix & Comm)
M.Sc. (Radio Frequency Electronics), Tampere University of Technology, Finland, 2011
B.E. (Electronics & Communications Engineering), Pulchowk Campus, TU, 2006
Research Interest:
RF Circuit Design, wireless Communications esp. in LTE



Sachin Shrestha (NEC reg. 1396 Elix & Comm)
M.Sc. (Information & Comm. Engineering), IoE, Pulchowk Campus, T.U., 2013
B.E. (Electronics & Communications Engineering), Pulchowk Campus, TU, 2007
Research Interest:
Low Powered Embedded System Design, Biomedical Signal Processing



Deepesh Prakash Guragain (NEC reg. temp. 34127 Elix & Comm)
M. Tech in Embedded System JNTU 2015 India
Research Interest:
Embedded System, Internet of things
Hardware design and FPGAs



Anil Kumar Yadav (NEC reg. 1302 Elix & Comm)
M.Tech. (Communication Systems) National Institute of Technology, Trichy, India, 2011
B.E. (Electronics & Communication) Advanced College of Engineering and Mgmt., TU, 2007
Research Interest:
Wireless Communication, Automation, Networking



Kailash Karki (NEC reg. 4646 Elix & Comm)
M.Tech (Communication and Radar System), K L University, India, 2017
B.E (Electronics and Communication), nec, Pokhara University, 2013
Research Interest:
Radio Wave Propagation, RF and Microwave Design



Nabin Poudel (NEC reg. 3326 Elix & Comm)
Msc. in Communication and Knowledge Engineering, Paschimanchal Eng. Campus, Pokhara, TU, 2018
B.E. (Electronics & Communication) Pokhara Engineering College, PU, 2011
Research Interest:
RF and Microwave engineering, Artificial Intelligence, Computer vision and image processing.



Ramesh Kumar Pudasaini (NEC reg. 3089 Elix & Comm)
M.Sc.ISE (Master of Science in Information System Engineering), Purbanchal University, 2017
Research Interest:
Wireless Communication, Networking

Senior Instructor



Gyan Bhakta Maharjan
Diploma in Electrical Engineering, CTEVT, 1993

Assistant Instructor



Rupesh Karna
Diploma (Electronics), T.U., 2011

Department of Computer Science & Engineering

Professor



Sudarshan Karanjeet
PGBSAD, City University, UK, 1987
M.Sc. (Statistics), Tribhuvan University, 1980
Research Interest:
Programming Languages, Data Structures, System Analysis & Design

Associate Professors



Deepak B. Dhami (NEC reg. 162 Computer)
(Vice Principal)
M.B.S., T.U., 2010
1 year Master Non-Degree Course, Corvinus University of Budapest, Hungary, 2010
M.E. (Computer), NCIT, P. U., 2007
B.E. (Computer), nec, P. U., 2003
Research Interest: E-Governance, Image Processing, Modeling and Simulation



Dhiraj Kumar Das (NEC reg. 317 Elk & Comm)
M.E. (Computer), NCIT, Pokhara University, 2009
P G Diploma, (Comp. Appl.), 2001
AMIE (Electronics & Comm.), India, 1993
Research Interest: Data Warehouse Mining, Image Processing, Network Security

Assistant Professor



Dinesh Dangol (NEC reg. 1143 Computer)
(Head of Department)
M.Sc. (Information & Comm. Engineering), IoE, Pulchowk Campus, T.U., 2013
B.E. (Computer), nec, Pokhara University, 2006
Research Interest:
Image Processing, Network Design, and Automatic Classification



Sundar Kunwar (NEC reg. 1211 Computer)
M.Sc. in Software Development, Finland, 2013
B.E. (Computer), Advanced College of Engineering and Management, T.U., 2006
Research Interest:
Humanoid Robotics, Agile Software Development Methodology



Jeet Bahadur Bohara (NEC reg. 2467 Computer)
M.Sc. (Information Technology), University of Madras, India, 2009
AMIE (Computer), India, 2005
Research Interest:
Artificial Intelligence, Computational linguistics
Numerical Analysis of Engineering Problems

Assistant Professors



Menuka Maharjan (NEC reg. 1795 Computer)
M.E. (Computer), NCIT, Balkumari, 2014
B.E. (Computer), Pokhara University, 2008
Research Interest:
Natural Language Processing



Chayan Hada (NEC reg. 2369 Electronics)
M.Sc. (Information & Communication Engg), IOE, TU, 2013
B.E. (Electronics & Communication) Khwopa Engineering College, PU, 2010
Research Interest:
Communication Networks



Rohit G. Bai
M.E., (Computer Science & Engineering) Anna University, Chennai, India, 2014
B. Tech (Computer Science & Engineering) CUSAT, Cochin, Kerala, India, 2011
Research Interest:
Computer Security and Steganography



Krishna Bikram Shah
M.Tech (Computer Science and Engineering), SMIT, SMU, India, 2012
M.C.A., SMU, India, 2007
B.Sc. (Software Systems), North Bengal University, India, 2004.
Research Interest:
Bioinformatics, Machine Learning, Artificial Intelligence, Data Science



Ansu Ghimire (NEC reg. 294 IT)
Master of Technology in Computer Science & Engineering, Visvesvaraya Technological University, Karnataka, India 2012
B.E. (Information Science), Visvesvaraya Technological University, Karnataka, India, 2010
Research Interest:
Image Processing



Naresh Prasad Das (NEC reg. 3294 Electronics)
M. Tech. (DE & CS), 2014, INTIUA, A.P., India
B.E. (Electronics & Communication) TU, Nepal, 2011
Research Interest:
Wireless Communication, Programming & Simulation



Bishwadeep Mainali
M. Tech (Computer Science and Engineering), SMIT, SMU, India, 2015
B.E. (Computer Science & Engineering), Anna University, Chennai, India, 2012
Research Interest:
Cloud Robotics, Internet of Things



Jhumi Thapa
M.Sc. (Computer Science), Banaras Hindu University, 2013
B.Sc. (Computer Science), Banaras Hindu University, 2011
Research Interest:
Networking



Ashish Kumar Jha (NEC reg. 3495 Computer)
M. Tech in Computer Science (Networking) Sharda University, India, 2017
B.E. Computer Science & Engineering T.U. 2013
Research Interest:
IoT, Machine Learning, Image Processing, Pattern Recognition

Assistant Professors



Trailokya Raj Ojha (NEC reg. 1814 Computer)
M.Sc. IT (Software Engineering)
Tampere University of Technology, Finland, 2014
B.E. Computer
Purbanchal University, Nepal, 2008
Research Interest:
Big Data, Automatic MBT



Ishwor Pokhrel (NEC reg. 3450 Computer)
B. E. (Computer Engineering)
T. U. 2013
Research Interest:
Distributed System, Big Data Technologies, ERP

Junior Professors



Murari Sharma (NEC reg. 4775 Computer)
B.E. (Computer Engineering)
Tribhuvan University, Nepal, 2017
Research Interest:
Data Science, Deep Learning, Machine Learning, Big Data Technologies, Linux Kernel Architecture, Algorithms



Madan Raj Upreti
M.Sc. Computer Science
South Asian University, India, 2017
B.Sc. CSIT
Tribhuvan University, Nepal, 2013
Research Interest:
Real Time System, Cyber Physical System, Design and Analysis of Algorithm, Computer Network



Dinesh Raj Paneru (NEC reg. 4909 Computer)
M. Tech (Computer Science and Engineering)
Jain University, India, 2017
B.E. (Computer Engineering)
Tribhuvan University, Nepal, 2014
Research Interest:
Cloud Computing, Big Data Analytics, Data Mining

nec-BDH

Assistant Professor



Umesh K.C. (NEC reg. 7311 Civil)
(Program Coordinator, nec -BDH)
ME (Earthquake Engineering), Khwopa Engineering College, PU, Nepal, 2018
BE (Civil Engineering), Pokhara University, Nepal, 2010
Research Interest:
Soil liquefaction analysis and mitigation methods, Cost effective ground improvement techniques, Chemical grouting, Response of structures during seismic events, Fluid mechanics and Hydraulics

nec-Center for Post graduate Studies (nec-CPS) Faculties

Professor



Khem Raj Sharma (NEC reg. 16 Agri-Irrigation)
Director
Ph.D. (Agricultural Engg.), Central Luzon State University), 1992
M.Sc. (Agricultural Engineering), University of the Philippines, 1983 B.E. (Agricultural), University of Udaipur, India, 1975
Research Interest:
Integrated Water Resources Management

Associate Professors



Thushitha Chandani Shahi (NEC reg. 1652 Civil)
(Coordinator, Transportation Engg. & Management)
PhD, Road & Airfield, 1999
M.Sc. Highway engineering, 1994
Research Interest:
Traffic Engineering & Road Safety



Robert Dongol
M.Sc. (Environmental Engineering and Management), AIT, Bangkok, 2007
B.Sc. (Environmental Science), Kathmandu University, 2004
Research Interest:
Sustainable Development, Water & Waste Water

Assistant Professors



Narayan Prasad Koju
(Coordinator, Natural Resource Management)
PhD in Zoology (Wildlife Ecology) TU. 2014
M.Sc. in Zoology (Ecology) TU. 2006
Research Interest:
Conservation Biology, Climate Change, Phylogenetics & Evolutionary Biology



Anish Ghimire (NEC reg. 24 Environmental)
Ph.D. (Environmental Technology), 2015
M.E. (Environmental Engineering and Management), AIT, Thailand, 2012
B.Tech. (Environmental Engineering), KU, Nepal, 2009
Research Interest:
Environmental and Sanitary Engineering, Water and Wastewater Treatment, Recovery and Reuse, Solid Waste Management and Resource Recovery, Waste-to-Energy Technologies



Suman Mishra (NEC reg. 6873 Civil)
M.Sc. (Transportation Engineering), University of Calgary, Canada, 2016
B.E. (Civil), Tribhuvan University, Nepal, 2010
Research Interest:
Transport Planning, Economic/Traffic optimization studies, ITS, Road Safety



Manoj Kunwar
M.A. (Economics), Tribhuvan University, Nepal, 2012 B.Sc. (Statistics), Tribhuvan University, Nepal, 2007
Research Interest:
Economics & Econometrics



Rajesh Khadka (NEC reg. 5644 Civil)
M.Sc. (Transportation Engineering & Management), Pokhara University, Nepal, 2018
B.E. (Civil), Tribhuvan University, Nepal, 2004
Research Interest:
Transport Planning, Pavement Engineering & Management

ADMINISTRATIVE STAFF

Administration Section



(from left-front) Manohar Khanal, Pradnuma Neupane, Shreema Sharma (General Administrator), Bashanta Bajracharya, Bharat Khanal, Pawan Karki (from left-at back row) Abhijeet Poudel, Shova Khanal, Pramila Khanal, Laxmi Neupane, Bimila Gurung

Information and Communication Technology (ICT) Center



(from left) Govardan Neupane, Jagannath Aryal, Dinesh Dangol (HoD-Computer Science & Engineering Department) & Niroj Magar

Civil Lab Technicians



From left: Bharat Khanal, Subash Sharma, Pramina Sharma, Janak Thapa

Examination Section



(from left-front) Krishna Maharjan, Rosina Mali (Chief), Sundar Kunwar (from left-at back row) Shree Ram Khanal & Sujana Lama

Library



(from left) Pabita Khanal, Bandana Neupane, Sumitra Shakya, Batuli Magar & Ganga Neupane

Student Welfare Division



Pralhad Neupane, Sankalp Pokharel (chief) & Satya Pd. Khanal

Girls Hostel



Sita Khatri, Ms. Yam Kumari Giri (Hostel Incharge)

Account Section



(from left-front) Shaishala Joshi, Ram Kumar Shrestha (Finance Controller) & Shreema Sharma, (from left-at back row) Srijana Lama, Roshan Neupane & Mitranath Gelal

Electronics & Electrical Laboratories



(from left) Rishi Ram Neupane, Suman Prajapati, Pradeep Thapa, Babu Krishna Khanal

Store/Procurement



Krishna Bahadur Bhadel, Laxman Basnet & Yogesh Nandan Joshi (Chief)



Santuram Basnet, Ajay Khadka (Chief), Manohar Khanal, Niranjana Chaudhary, Ashok Khadka, Prakash Bhandel & Pushpa Narayan Bhandel

Transport



nec Transport In-charge Mr. Lochan Neupane with other transport department staffs.

Security



(from left) Babu Kaji Shrestha, Raj Kumar Bata, Sanubhai Mangar, Sanubhai Mahat

The Chartered Engineers of Nepal working at *nec*

Nepal Engineering College is happy to announce the Chartered Engineers of Nepal working with us. They are our proud properties and are as follows;

S.N.	DESIGNATION	NAME	S.N.	DESIGNATION	NAME
1	Prof.	Dr. Hari Krishna Shrestha	9	Asst. Prof.	Rupesh Dahi Shrestha
2	Assoc. Prof.	Ram Sthapit	10	Asst. Prof.	Sachin Shrestha
3	Assoc. Prof.	Dhiraj Kumar Das	11	Asst. Prof.	Sundar Kunwar
4	Assoc. Prof.	Durga Prasad Bhandari	12	Asst. Prof.	Dinesh Dangol
5	Assoc. Prof.	Deepak Bahadur Dhimi	13	Asst. Prof.	Bijaya Shrestha
6	Assoc. Prof.	Ramesh Khanal	14	Asst. Prof.	Dibangar Khoteja
7	Asst. Prof.	Narayan Prasad Acharya	15	Asst. Prof.	Dibyashree Lohani Poudyal
8	Asst. Prof.	Mohan Dhoja K.C.	16	Asst. Prof.	Raghu Nath Prajapati

Success Stories!

Er. Prativa Devkota

Software Engineer Hewlett Packard Enterprise
BE Computer, 2010 Batch



Er. Wanita Sherchan

Research Scientist in IBM Research Australia
B.E. Computer, 1999 Batch

Er. Roshan Pandey

Software Engineer at LogPoint
BE Computer, 2013 Batch



Er. Nirajan Timalisina

Senior Software Engineer, Logpoint
BE Computer, 2011 Batch

Rajan Kanu Baniya

Radio Frequency Engineer,
Huawei Technologies Nepal Co., Pvt. Ltd
BE Electronics and Communication, 2013 Batch



Chandra Laxmi Hada

Urban Planning/Disaster Management,
Massachusetts Institute of Technology
B.Arch, 1996 Batch

Shristi Heuju

Telecom Engineer at Nepal Telecom
BE Electronics and Communication, 2012 Batch



Dakshata Shahi

Architect at Sankhanath Rimal Engineers &
Architects
B.Arch, 2013 Batch

Success Stories!

Raju Ghimire

Senior Engineer in Obayashi- Shimuzu-JHE-IHI Joint Venture (OSJI- JV), Bangladesh
B.E. Civil, 1999 Batch



Er. Gopal Sharma

Senior Divisional Engineer (Division Chief)
Water Resources and Irrigation Development Division
B.E. Civil (For Diploma Holders), 2008 Batch

Sangita Malla Rana

Water Resources Engineer at Tarrant Regional Water District, a raw water supplier in North Central Texas
B.E.Civil, 1999 Batch



Kamal Bikram Khadka

Engineering Specialist at UNICEF, Headquarter New York
B.E. Civil, 1999 Batch

Anil Pokhrel

Dept. of Water Resource and Irrigation,
Ministry of Physical Infrastructure Development
B.E. Civil & Rural, 2013 Batch



Er. Mani Ram Gelal

Director General, Department of Urban Development
and Building Construction
M.Sc. Construction Management, 2000 Batch

Satish Kr. Shah

Engineer, Road Division, Bhaktapur
B.E. Civil & Rural, 2014 Batch



Er. Mon Devi Shrestha

Deputy Director General, Department of Electricity
Development
M.Sc. iWRM, 2007 Batch

Master Plan



NEPAL ENGINEERING COLLEGE

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