Prospectus 2024

(D.A.O. Bhaktapur, Regd. No. 552/2060)

Nepal Engineering College

Center for Postgraduate Studies

(Affiliated to Pokhara University)

Website: nec.edu.np

Master of Science Degree in

- Construction Management
- Interdisciplinary Water Resources Management
- Natural Resources Management
- Transportation Engineering and Management

Prayagpokhari, Lalitpur, Nepal

NEPAL ENGINEERING COLLEGE

nec was established in 1994 as a self-funded, 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 several 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 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 provide 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.

nec Center for Postgraduate Studies (*nec*-CPS)

The formation of ***nec*** Center for Postgraduate Studies (***nec***-CPS), by the decision of the board of governance of ***nec*** in 2009 was a significant milestone and commitment of ***nec*** towards vertical growth of the educational agenda. As stated earlier four postgraduate courses leading to M.Sc. (Master of Science) degree in Construction Management (CM), Interdisciplinary Water Resource Management (iWRM), Natural Resources Management (NRM), and Transportation Engineering and Management (TEAM) are organized under ***nec***-CPS at present. All these courses are offered in affiliation with Pokhara University. ***nec***-CPS is headed by the Director, who is responsible for overall planning, administration and management functions and in providing leadership in conceiving, designing and implementing new programs. All the academic matters pertinent to specific courses are coordinated by program coordinators designed for different course areas.

Faculty Members and Staff of *nec*-CPS

VISION AND MISSION OF *nec*

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

The mission of *nec* are:

i. Providing the youth with the best opportunities and environment of learning to help them attain high level of academic standard, scientific temper, technical and self-employment professional competence and life-skills. ii. Train and develop youth as total person, ready to serve the society and the people to alleviate their sufferings and improve their quality of life. iii. 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.

nec CPS which is an integral part of ***nec***, is to contribute towards attainment of the vision and mission of ***nec*** through programs in graduate degrees.

LOCATION AND TIMING OF THE PROGRAMS

All Master level programs at ***nec*** CPS at Prayagpokhari, Lagankhel are conducted in the evening from 5:30 PM - 8:30 PM (4:30 PM – 7:30 PM during November through January).

ACADEMIC SCHEDULE

The academic schedule is based on the academic calendar of Pokhara University, which consists of two semesters in an academic year. Normally, the Fall semester starts in September and the Spring semester starts in March. The admission may commence in the Fall and/or in the Spring semester.

EVALUATION SYSTEM

Each course is assigned a certain number of credits depending on its lecture, tutorial and practical work hour in a week. One lecture per week is assigned for one credit as a general rule. The performance of the students in each course is evaluated under internal and semester end examinations. Internal evaluation is through home assignments and class assignments, presentations and mid-term assessment and class test. Semester end examination is conducted by Pokhara University. To pass a subject, a candidate must obtain a minimum of "C" grade, both in internal and final examination independently.

GRADING SYSTEM

The grades awarded to a candidate are based on his/her consolidated performance in internal and final examinations. The award of grades, based on absolute or relative standing of the students in different subject areas stated hereunder.

Letter Grade	Marks	Grand Point	Description
A	Above 90	4.0	Excellent
A-	85-89	3.7	
B+	80-84	3.3	
B	75-79	3.0	Good
B-	70-74	2.7	
C+	65-69	2.3	
C	60-64	2.0	Satisfactory: Minimum Requirement
F	Less than 60	0.0	Fail

If a student cannot finish the requirements of a course, he/she may be awarded an incomplete "I" grade. Student shall retake the course second time (whenever offered) to secure minimum "C" grade as required. The students' performance is evaluated in terms of the Semester Grade Point Average (SGPA) in 4.0 point scale.

The details on the entry requirement, courses offered in each M.Sc. program at ***nec*** CPS are provided under each program.

ATTENDANCE REQUIREMENT

The attendance required is 80% of the total class held to be eligible for the semester end examination. A student whose attendance is short of 80% may not be allowed to take semester end examination.

REPEATING AND RETAKING A COURSE

A student may retake up to 2 courses if s/he fails to complete the degree by scoring minimum grade point. Students are advised to contact the examination section for detailed information of grading and evaluation system.

AWARD OF DEGREE

Upon fulfillment of the entire requirements as prescribed in the curricula, Pokhara University will award the degree. Students are required to maintain a minimum Cumulative Grade Point Average (CGPA) of 3.0 for the award of M.Sc. degree.

Note: Students are advised to regularly browse the websites of Pokhara University (www.pu.edu.np) and ***nec*** (www.nec.edu.np) to keep themselves updated with the rules and regulations of Pokhara University and ***nec***.

FULL TIME FACULTY MEMBERS

Professor

Dr. Thusitha Chandani Shahi (P. Eng. NEC reg. 1652 Civil)
(Director nec-CPS)
PhD, Road & Airfield, MADI, Moscow, Russia, 1999
M.Sc, HIghway Engineering, MADI, Moscow, Russia, 1994
Research Interest:
Road Safety, Traffic Engineering

Associate Professor

Robert Dongol
(Coordinator iWRM)
Ph.D Scholar, Kathmandu University, Dhulikhel, Nepal
M.Sc. (Environmental Engineering and Management), AIT,Thailand, 2007
B. Sc. (Environmental Science), Kathmandu University, 2004
Research Interest:
iWRM, Water and wastewater management, SWM

Assistant Professor

Dr. Narayan Prasad Koju
(Coordinator NRM)
DNSc. Kunming Institute of Zoology, Chinese Academy of Science, 2017
PhD in Zoology (Wildlife Ecology), T.U., 2014
M.Sc. in Zoology (Ecology), T.U., 2006
B.Sc. (Biology), Tri-Chandra College, TU, 2003
Research Interest:
Conservation Biology, Climate Change, Phylogenetics& Evolutionary Biology

Dinesh Sukamani (NEC reg. 10597 Civil)
(Coordinator CM)
PhD (Civil Engineering), Wuhan University of Technology, Wuhan, China, 2022
Master in Civil Engineering (Construction Management), Wuhan University of Technology, Wuhan, China, 2017
B.E. (Civil Engineering), Khowpa Engineering College, PU, 2013
Research Interest:
Project Management and Sustainable Evaluation, Engineering Project Investment Financing

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

Sujan Nepal (NEC reg. 9930 Civil)
(Coordinator RMC)
Ph.D. Scholar, IoE, TU
M. Sc. (Climate Change and Development), IoE, Pulchowk Campus, TU, 2017
B. E. (Civil Engineering), T.U., 2013
Research Interest:
Water resources, Climate change.

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

Sudip Pokhrel
M.Sc. (Statistics), Central Department of Statistics, T.U., 2017
B.Sc. (Statistics), Tri Chandra College, T.U., 2014
Research Interest:
Multivariate Analysis, Statistical Modeling, Applied Survey Sampling and Sampling Methodology

Gopal Gautam (NEC reg. 9251 Civil)
M.Sc. (Transportation Engineering & Management), nec, PU,2018
BE (Civil Engineering), nec , 2013
Research Interest:
Urban Road Planning, Design and Management

Pratik Singh Thakuri (NEC reg. 152 Environmental)
M.Sc., Water Resources Engineering and Management, UNESCO-Madanjeet Center for South Asia Water Management (UMCSAWM), University of Moratuwa, Sri Lanka, 2018
BTech. (Environmental Engineering), KU, 2015
Research Interest:
Rainfall-runoff modeling, Hydrological and hydraulic analysis, DRR with special focus on flood hazards

Academic Programs

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 demand highly specialized manpower to organize and manage the construction works. In addition to this, construction activities, both in public and private sectors, are not only increasing but also becoming complex. Because of this, there is a great demand for qualified and competent Construction Managers in the country and abroad. Beginning 1999, M.Sc. Construction Management program has been underway at ***nec***.

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.

Aim of the Program

M.Sc. program in Construction Management aims to enhance professional and technical skills by focusing on the managerial, economic, legal and business skills needed in the changing construction sectors in Nepal and overseas.

Credit Hours

Of the total academic credit, the course work involves 45 credits and 15 credit hours are dedicated for an independent research on real field based problem.

Course Structure

Semester	Course code	Course title	Credit Hour
First	MGT 511	Project Planning and Control or Management	3
	MNG 512	Human Resource Management	3
	STT 505	Statistical Analysis	3
	ECM 521	Professional Ethics and Liability in Construction	3
	ECO 501	Economics for Construction Managers	3
		Total	15
Second	ECM 522	Construction Policies, Environment and Law	3
	FIN 521	Financial Management	3
	ECM 523	Construction Project Management	3
	ECM 524	Management of Construction Plant and Equipment	3
		Elective-I	3
		Total	15
Third	ECM 621	Construction Project Engineering and Administration	3
	ECM 622	Construction Safety Engineering	3
	RCH 601	Research Methodology	3
	ECM 623	Construction Management Developing Countries	3
		Elective-II	3
		Total	15
Fourth	ECM 625	Thesis	15
		Total	15
Total credit hours			60

Electives-I (3 credits)

1. Geographic Information System (GIS)
2. Concrete Technology

Electives-II (3 credits)

1. Construction Quality and Reliability Management

INTERDISCIPLINARY WATER RESOURCE MANAGEMENT (iWRM)

Water related issues continue to remain in the center of development debate around the world. Water issues are intricately linked to livelihood and well being of peoples, and have even much broader and often far reachingsocial, 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. In this context Nepal is no exception since water issues are even more complex due to ecological, social, technical and economic diversities and the evolving development polity at the national, regional and local levels. The supportive policy environment National Water Resources Strategy 2002 and National Water Plan 2005 and established demand for human resources in water sector encouraged ***nec*** to start a postgraduate course in water resources management.

This course is initiated in addressing issues in water resources management through education, research and knowledge dissemination through Interdisciplinary approach since 2007.

Aim of the Program

The proposed program on Interdisciplinary Water Resources Management aims at producing professionals with interdisciplinary knowledge and skills and capacity to respond to emerging challenges in water resources management. The program is intended to produce the graduates with theoretical and analytical skills, capable of undertaking wide ranging planning and management function relating to water. Upon completion of the program, the graduates are expected to be able to:

- Pursue interdisciplinary approach in managing water systems
- Assess the water resources endowment as lined to upstream and downstream hydrology, ecology,
- pollution, consumptive and non-consumptive uses and water induced disasters.
- Undertake key role in planning, development, and management of water resources, sustaining national, regional and local economy and well being of the people.
- Respond to the water conflicts within wider contexts of socio-economic and environmental challenges,

locally, nationally and internationally. Recognize the importance of political processes as an important element in decision making pertaining to acquisition, allocation and utilization of water resources.

Credit Hours

Of the total academic credit, the course work involves 44 credits and 16 credit hours are dedicated for an independent research on real field based problem.

Course Structure

Semester	Course Code	Course Title	Credit Hours
First	IWM 611.3	Hydrological Sciences	3
	IWM 612.3	Water Flow and Hydraulics	3
	IWM 613.3	Role of Water in Productive Activities	3
	IWM 614.3	Society and Water: Public Health, Livelihood and Ecosystem	3
	IWM 615.3	EIA and GIS application in Water Resources	3
	IWM 616.2	Presentation, Writing and Reporting Skills	3
	Total		17
Second	IWM 621.3	Economics of Water Resources Management	3
	IWM 622.2	Gender, Water and Social Inclusion	2
	IWM 623.3	Conflicts in Water Management	3
	IWM 624.3	Legal and Policy Dimensions of Water Management	3
	IWM 711.3	Water Induced Disasters and Risk Management	3
	Total		14
Third	IWM 712.3	Integrated Water Resources Management	3
	IWM 713.3	Field Research Methodology	4
	IWM 714.3	Power, Authority and History	2
		Elective	4
	Total		13
Fourth	IWM 700	Thesis	16
	Total		16
Total Credit Hours			60

Electives:

- Climate Change, Livelihood and Adaptation
- Land Degradation and Management
- Groundwater Management

Management of Irrigation Infrastruture & Services

NATURAL RESOURCES MANAGEMENT (NRM)

The master's course in Natural Resources management was offered beginning the academic year of 2000-2001. Natural Resource Management covers one of the main subjects Natural Resource Management. Natural resource management refers to the management of natural resources such as land, water, soil, plants, and animals, with a focus on how management affects the quality of life for both present and future generations (stewardship). The duration of Master of Science in Natural Resource Management is mostly of two academic years

The course aims a unique education and knowledge required to solve interdisciplinary challenges encompassing social, institutional, ecological, and economic aspects in planning, development, and utilization of natural resources. Natural resource management refers to the management of natural resources such as land, water, soil, plants, and animals, with a focus on how management affects the quality of life for both present and future generations (stewardship). The duration of a Master of Science in Natural Resource Management is mostly two academic years. This has been the most sought course among the people who wish to develop their career in the areas of conservation and management of natural resources and its management. The course emphasizes scientific proficiency and applied skills in forest management, wildlife management, watershed management, water resources management, alternative energy, environment management, Mines and mineral resources management, and urban and rural planning and development.

Aim of the Program

M.Sc.Natural Resources Management (NRM) 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.

Career prospects

The MSc program in Natural Resources Management at necCPS is an approved course syllabus by the Public Service Commission, Nepal for the post of officers and experts in Natural Resources Management, Watershed and soil erosion management general forestry, and wildlife management. The graduates of MSc NRM from necCPS will qualify for positions in wide-ranging administrative and technical positions with government agencies, NGOs and INGOs, academic institutes, research centers, and environmental consultancies on all levels, from regional to global. As a result of developing national and international laws and regulations for utilizing sustainable resources, the demand for professionals with special education on these issues is expected to increase in the future.

Scholarships Upto 40%

To all deserving students.

Course Structure

Semester	Course code	Course title	Credit Hour
First	NRM511	Natural Resources System	3
	EFW 501	Forest and wildlife ecology	3
	STT510	Statistics	3
	NRM 513	Conflict and Natural Resources Management	3
	NRM 515	Practical I (Field work and seminar presentation)	1
	NRM516	Practical II Case study and term paper	2
	Total		15
Second	NRM 514	Energy Resources & Environment	3
	NRM 523	Geospatial and remote Sensing Techniques	3
	NRM521	Natural Resources Governance and Policy	3
	NRM512	Climate Change in Natural Resources Management	3
		Elective I	3
		Elective II	3
	Total		18
Third	NRM 611	Integrated Watershed Management	3
	RCH 621	Research Methodology and Scientific writing	3
	NRM 612	Environmental Assessment	3
	NRM 622	Natural Resources Economics	3
	NRM625	Practical III Case study and term paper	2
		Elective III	3
	Total		17
Fourth	NRM 691	Thesis	12
		Total	15
Total Credit Hours			62

Electives I (3 credits):

- Silviculture in NRM
- Water Induced Disaster Risk Reduction
- Program Planning and Management
- Biodiversity Conservation

Electives II (3 credits):

- Mine and Mineral Resources
- Integrated Water Resources Management
- Sustainable Forest Management

Electives III (3 credits) :

- Environmental Pollution
- Society, Livelihood and Participatory Development
- Wildlife Conservation and Management

TRANSPORTATION ENGINEERING AND MANAGEMENT (TEAM)

The concept of global village was realized mainly due to efficient transport facilities. Natural endowment of resources and competitive 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. Thus, the issue of transportation continues to be crucial now and in future as well. In Nepal, a very nominal transport need is met by air and railway signifying the importance of the road transport. These are the issues addressed in the M.Sc. program in Transportation Engineering and Management (TEAM) underway since 2010.

Aim of the Program

The M.Sc. in Transportation Engineering and Management 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 highways and other transport facilities and their operation, maintenance and management.

Upon completion of this program, the students are expected to handle multitude of professional assignments relating to transportation planning, designing and management. TEAM is a pioneer and leading program in the country.

Scholarships

nec has established the Buddhi Sagar and Sabitri Devi Parajuli (BUS) Endowment with the generous support from Dr. Partha Mani Parajuli. Some outstanding students will be honored with the scholarship. Dr. Partha Mani Parajuli facilitates TEAM students for studying doctoral degree in some of the Australian Universities.

Internship

A Memorandum of Understanding (MoU) with MVA Asia Ltd, Hong Kong, has a provision for providing internship opportunities to the TEAM students at MVA's project sites. Students will receive subsistence allowance during the period of internship. Since MVA implements the cutting edge technology for constructing transport infrastructure, the internship will offer the best opportunity for students to acquire advanced skills in transportation technologies.

Course Structure

Semester	Course Code	Course Title	Credit Hours
First	MNG 604	Transportation Policy	3
	TRP 611	Transportation Networking	3
	TRP 612	Principles of Transportation Engineering	3
	TRP 613	Traffic Engineering	3
		Elective I	3
	Total		15
Second	TRP 621	Transport Planning Methods	3
	MNG 622	Transportation Economics	3
	TRP 622	Transport Planning Studio	3
		Elective II	3
		Elective III	3
	Total		15
Third	MNG 709	Research Methods	3
	TRP 712	Transport Safety	3
	MNG 605	Organization Behavior and Human Resource Management	3
		Elective IV	3
		Elective V	3
		Elective VI special Study in lieu of Elective IV and V	3
	Total		15
Fourth		Thesis	15
	Total		15
Total Credit Hours			60

Elective Courses

Elective courses will be offered in response to the students' demand and upon availability of the resource in the college. Minimum number of students for each elective course should be 10. The elective courses are:

- Pavement Engineering and Drainage System
- Governance and Financing for Transport Infrastructure
- Rural Transport Infrastructure Planning and Management
- Geo-technical Engineering
- GIS and Remote Sensing
- Public Transportation Planning and Management
- Pavement Management System
- Railway Engineering
- Simulation Applications in Transportation Engineering
- Concrete Bridge Design
- Procurement & Contract Management in Construction Project

ACADEMIC ENTRY REQUIREMENTS

Programs	Academic Session	Criteria (Area of Discipline)
Construction Management	Fall and Spring	Bachelor's degree having a minimum of 15 years of education with minimum econd division in Civil, Electrical, Mechanical, Geotechnical, Hydro- power Engineering and Architecture from a recognized universities/ institutions
Interdisciplinary Water Resource Management	Fall and/or Spring	Bachelor's Degree, having a minimum of 15 years of education with at least second division in Science and Technology (Engineering, Basic Sciences, Applied and Natural Sciences)
Natural Resources Management	Fall and/or Spring	Bachelor's degree having a minimum of 15 years of education with at least second division in Engineering, basic natural and applied sciences (Forestry, Environmental Sciences, Agro-veterinary Sciences) from a reputed university/institution.
Transportation Engineering and Management	Fall and/or Spring	Bachelor Degree in Civil Engineering having a minimum of 15 years of education with at least second division from a reputed university / institution

Note: Intake Capacity for all the program is 30 students

Program Duration

The duration of all M.Sc. programs, underway at ***nec*** CPS, in affiliation with Pokhara University, is two years spread over four semesters; inclusion of one semester for the thesis writing. All the courses have to be completed within 4 years, and additional one year can be given to thesis work on special request upon the approval of the concerned authority.

RESEARCH ENGAGEMENT

Research Management Cell (RMC)

Significant and continued engagement of students as well as faculty members is foreseen in designing and undertaking research as integral part of their academic pursuit. A Research Management Cell (RMC) in nec CPS organizes, coordinates and consolidates faculty and students' research activities in the center. To streamline both faculty and student's research activities, Research Committee, which functions as an independent apex policy advisory body, has been constituted. RMC functions as the secretariat of the Research Committee. RMC has a full time Research Coordinator to coordinate research activities on day to day basis.

COMPLETED ROJECTS

Climate Policy, Conflict and Cooperation in Peri-Urban South Asia: Towards Resilient and Water Secure Communities Project (2014-2018)

Nepal Engineering College has continued its endeavor to look into peri-urban water security issues through the five year long CCMCC (CoCooN) Project, titled Climate Policy, Conflict and Cooperation in Peri-Urban South Asia: Towards Resilient and Water Secure Communities, underway at this college from January 1, 2014 till December 30, 2018. The regional research program is supported by Netherland Organization for Scientific Research (NWO). The project partners are Wageningen University, Netherlands; MetaMeta, the Netherlands; South Asia Consortium for Interdisciplinary Water Resources Studies (SaciWATERs), Hyderabad, India ; Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh; Jagrata Juba Shangha (JJS), Khulna, Bangladesh; Nepal Engineering College, Kathmandu, Nepal; and International Center for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal working in four cities of three countries. The study is being executed in four South Asian cities Khulna (Bangladesh), Hyderabad and Gurgaon (India), and Kathmandu (Nepal).

Earlier research on peri-urban water security showed an increasing incidence of conflicts related to periurban water resources and also evidences of new forms of cooperation devised to overcome water insecurity. Focusing on conflict and cooperation in the management of climate change, CCMCC aims to contribute to the improvement of peri-urban water security by enhancing community resilience to urbanization and climate change through increased cooperation and reduction of conflicts, producing opportunities for improved livelihoods for poor, marginalized, and vulnerable groups and resulting in climate-smart water resources and climate change strategies, policies and actions at various levels.

The project also supports one PhD and one Post-Doctoral research. They will be doing in-depth study of periurban water insecurity, conflict and cooperation in the context of urbanization and climate change and the conflict and cooperation emerging from policy gaps at country level and cross-country level in South Asia.

IDRC SAWA Fellowship Project

A four year long project starting from 2013- 2016, has re-launched a fellowship program with the support of the International Development and Research Center (IDRC) called IDRC SAWA Fellowship program. The program builds on the six years of experience gained through a similar project called Crossing Boundaries (CB) Project. The SAWA program aims to address several gaps in the water sectors by ways of education i. It overcomes narrow technical approaches through an innovative interdisciplinary curriculum, ii. It goes beyond narrow localized perspective and fosters exchange of experiences and ideas among fellows of the different countries, 17 iii. It attempts to reduce the strong gender imbalance in the water sector by awarding 80 % of the fellowships to women and iv. it aims to bridge the gap between theory and practice by using an action and problem-oriented pedagogy.
This fellowship has a provision to provide the fellowship to 15 students, 5 in each intake to pursue M.Sc. course in Interdisciplinary Water Resources Management at Nepal Engineering College.

Crossing Boundaries (CB) Project (2007-2011)

Crossing Boundaries Project (2007-2011) funded by the DGIS of the Netherlands to initiate M.Sc. Interdisciplinary Water Resources Management (iWRM) program as a regional initiative in South Asian universities: Center for Water Resources (CWR), Anna University, India; Institute of Water and Flood Management (IWFM) Bangladesh University of Engineering and Technology (BUET), Bangladesh; Postgraduate Institute of Agriculture (PGIA) University of Peredeniya, Sri Lanka and Nepal Engineering College (nec), Nepal. The four main interrelated project components were i) advanced academic training with Masters course in Interdisciplinary Water Resources Management (iWRM); ii) non-degree and professional courses in iWRM tailored to specific needs of the water professionals and clientele agencies; iii) problem based research and knowledge dissemination on issues relevant to Nepal, and iv) networking with relevant institutions engaged in promoting integrated
and interdisciplinary perspectives in water resources planning, development and management. Under this CB Project, out of 45 graduates, a total of 30 iWRM graduates have been generated, currently working in various organization including both Government and Non-Governmental Organizations. More than 50 water professionals have been provide 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 based on the real life problem related to water in the upper Bagmati basin has been produced. Many papers based on the research findings of the students were presented and published in many proceedings and journals.

Peri-Urban Water Security Project (2010-2013)

Nepal Engineering College had completed an action research entitled Water Security emerging from urbanization an climate change in Peri-urban areas of three South Asian countries (2010-2013).This three year long regional action research project beginning July, 2010 to June, 2013 was supported by International Development Research Centre (IDRC), Canada. Coordinated by the South Asia Consortium for Interdisciplinary Water Resources Studies (SaciWATERs), Hyderabad, the research project was executed in collaboration with Bangladesh University of Engineering and Technology (BUET) in Bangladesh and Nepal Engineering College (nec) in Kathmandu Nepal simultaneously working on the issue in four rapidly urbanizing cities in South Asia- Kathmandu in Nepal, Gurgaon and Hyderabad in India and Khulna in Bangladesh cities. 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. During the project period, a total of six students (5 from iWRM and 1 from NRM) were provided internship under which logistic supports were provided to carry out research in the relevant field.

NON CREDIT COURSES

nec CPS organizes non credit courses on a regular basis to upgrade and/or enhance theoretical analytical and management skills of the students engaged in different programs. These include:
Technical writing, Data analysis (SPSS/Stata), MS Project. Interested students may attend the course offered at the college as a walk-in student. College will provide certificate upoin sucessful complition of such courses.

SHORT TERM TRAINING

nec CPS has been constantly organizing various trainings in collaboration with potential partners for the working and academic professionals involved in water and transportation sectors upon cliental request. Some of the trainings conducted include Integrated Water Resources Management; Field Research Methodology; Integrated Water Supply and Sanitation; e-biding and procurement; Geographic Information System and Remote Sensing; Road intersection design by using SIDRA INTERSECTION software; VISSIM, Designing and Report Generation. nec CPS has capability to provide trainings in the areas of natural resources, water, transportation and project management.

CONFERENCES/WORKSHOPS/SYMPOSIA

nec has been organizing national and international conferences/symposia and workshops independently and in collaboration with other organizations. The conferences/workshops/symposia organized till date:

- Regional SAWA Training on Integrated Water Resources Management during October 3-8, 2013 in Kathmandu
- Inception Workshop on Conflict and Cooperation in the Management of Climate Change (CCMCC) Project during Feb 11-13, 2013 in Kathmandu
- International Seminar on Climate Change and Mitigation of Water Induced Disasters on 28 March 2012 in Kathmandu
- Policy Dialogue on Groundwater Security in Kathmandu Valley on 20 March 2012 ,in Kathmandu
- International Conference on Sustainable Development of Transport System during October 19-22, 2011 in Kathmandu
- **Interdisciplinary in Water Education: Challenges, Perspectives and Policy Implications for South Asia during October 3-6, 2010 in Kathmandu.**
- **Regional Conference on Appropriate Water Supply, Sanitation and Hygiene Solution for Informal Settlements and Marginalized Communities during 19-21 May, 2010 in Kathmandu**
- **Fourth South Asia Water Research Conference on "Interfacing Poverty, Livelihood and Climate Change in Water Resources Development: Lessons in South Asia", during May 4-6, 2009 in Kathmandu.**

FACULTY AND RESEARCH STAFF

1. Prof. Dr. Thusitha Chandani Shahi, Director
2. Assoc Prof. Robert Dongol, Coordinator(iWRM)
3. Asst. Prof. Dr. Dinesh Sukamani, Coordinator,Faculty(CM)
4. Asst. Prof. Dr. Narayan Prasad Koju, Coordinator(NRM)
5. Asst. Prof. Rajesh Khadka, Coordinator(TEAM)
6. Asst. Prof. Manoj Kunwar, Faculty
7. Asst. Prof. Sujan Nepal, Coordinator (RMC)
8. Asst. Prof. Pratik Singh Thakuri, Faculty
9. Asst. Prof. Sudip Pokhrel, Faculty
10. Asst. Prof. Gopal Gautam, Faculty

ADMINISTRATIVE STAFF

1. Mr. Saroj Dhakal, Librarian (Library)
2. Mr. Ramchandra Pandit, Junior Administrator (Exam)
3. Ms. Sarita Bhujel, Office Supporter (Account)
4. Mr. Sujan Tamang, Office Supporter (Reception)
5. Mr. Krishna Bahadur Maharjan, Sr. Office Supporter, (Driver)
6. Mr. Niraj Magar, Junior Office Supporter (IT)
7. Mrs. Nhyaymaru Maharjan, Office Helper
8. Mrs. Menuka Basnet, Office Helper
9. Mr. Dambar Narayan Thakur, Guard
10. Mr. Paramananda Bhatta, Guard

VISITING FACULTIES

1. Prof. Dr. Satish Kumar Ojha
2. Er. Ashok Shrestha
3. Er. Sudip Karanjit
4. Er. Ashok Jha
5. Prof.Dr. Hari Krishna Shrestha
6. Prof. Vishwo Nath Khanal
7. Dr. Neel Kamal Koju
8. Mr. Basudev Upadhya
9. Mr. Prakash Gaudel
10. Mr. Damodhar Adhikari
11. Prof. Ashutosh Shukla
12. Er. Ashok Lohani
13. Mr. Ujjwal Upadhyay
14. Dr. Ram Asheshwar Mandal
15. Dr. Yogendra Mishra
16. Dr. Samit Thapa
17. Mr. Ramesh Bohara
18. Mr. Ram Prasad Bhandari
19. Dr. Dina Mani Pokharel
20. Mr. Rajan Subedi
21. Prof. Dr. Khem Raj Sharma
22. Dr. Bhesh Raj Thapa
23. Prof.Dr. Vishnu Prasad Pandey
24. Dr. Tirtha Adhikari
25. Dr. Hareram Shrestha
26. Er. Kumar Dhamala
27. Er. Krishna Raj Adhikari
28. Dr. Pradeep Kumar Shrestha
29. Er. Nala Bikram Thapa
30. Er. Subash Bhattarai
31. Er. Dinesh Prasad Sah
32. Er. Ishwor Adhikari
33. Prof. Dr. Padma Bahadur Shahi
34. Bishnu Prasad Devkota
35. Dr. Nagendra Yadav

FEE STRUCTURE

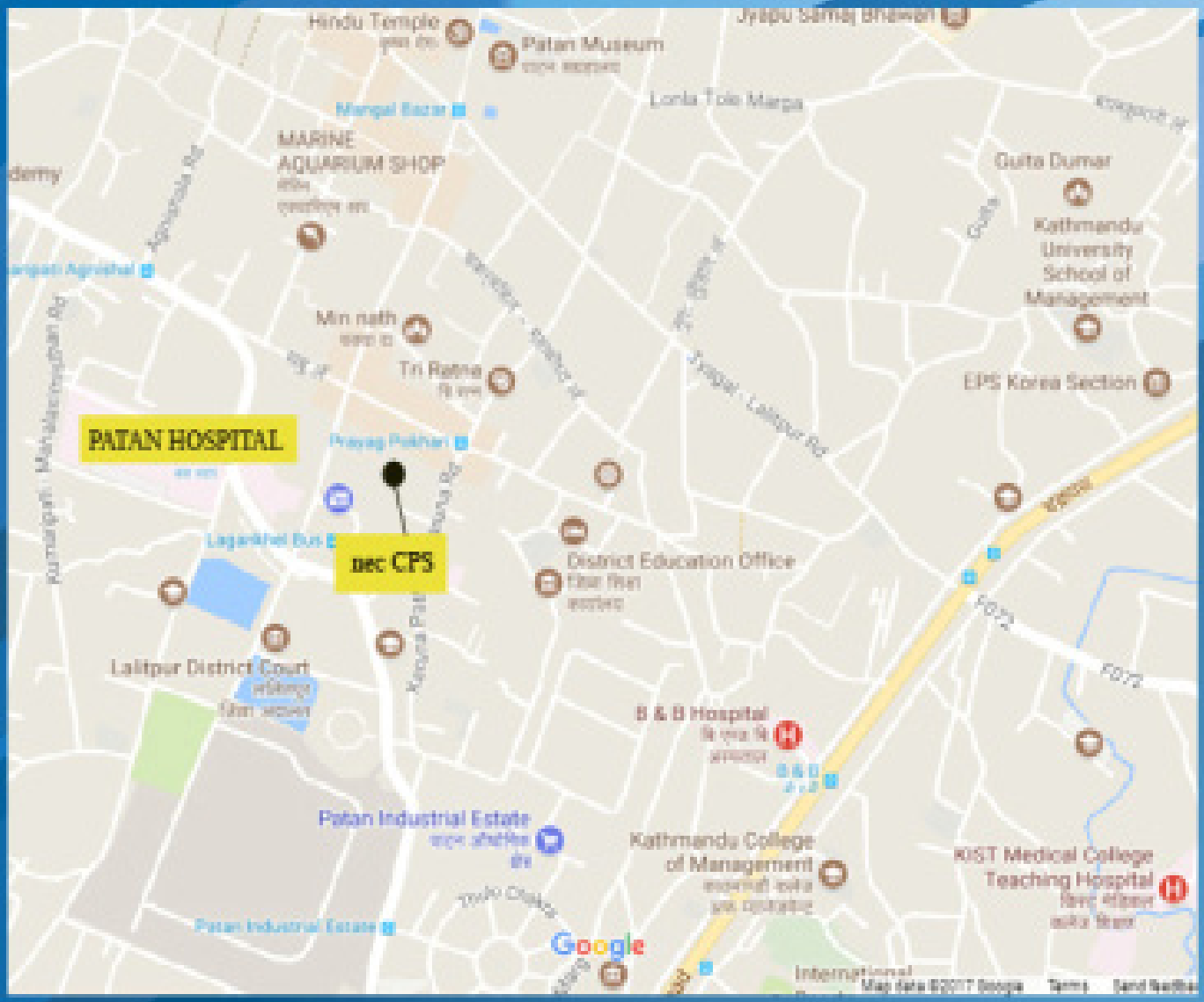
Students selected for admission are required to pay the prescribed fee. The fee structure is revised by the college from time to time.

Fee Items	Amount(Rs)			
	CM	IWRM	NRM	TEAM
Total	4,05,200.00	4,05,200.00	3,69,500.00 *(40% off)*	4,05,200.00
Security Deposit (Refundable)	10,000.00	10,000.00	10,000.00	10,000.00
	3,95,200.00	3,95,200.00	2,11,700.00	3,95,200.00

Note:

1. Fees and other charges are payable in advance for each semester within the prescribed dates.
2. Payment has to be made by depositing the stated amount in any branch of Nabil bank, (Account number 0201017503406) payable in favor of Nepal Engineering College Center for Postgraduate Studies.
3. Semeste fee for each semester has to be paid within 30 days of the start of the semester. Failure to pay within the prescribed period may result to fines as per the college rules.
4. Security deposits are refundable under the following conditions after adjustments of all dues:
   a. After graduation
   b. After clearing all dues, if a student is dropped by the college

Location Map



CONTACT

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Nepal Engineering College

(Affiliated to Pokhara University)

Prayagpokhari, Lalitpur

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