

**Saraswati Thapa**  
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Department of Civil Engineering  
Institute of Engineering,  
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## Professional Experience

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- **Assistant Professor (November 2018 - Till Date)**  
**Institute of Engineering, Pulchowk Campus, Pulchowk, Lalitpur, Nepal.**  
**Responsibilities:** Taking theoretical/laboratory courses related to Engineering Hydrology for BE students as well as supervising final year students of BE in their project and research works.
  
- **Deputy Head of Department, Senior Lecturer (April 2015 - November 2018)**  
**Kathmandu Engineering College (Affiliated to T.U.), Civil Department, Kathmandu, Nepal.**  
**Responsibilities:**  

<b>Senior Lecturer</b>	<b>June 2016- November 2018</b>
<ul style="list-style-type: none"><li>• Managed different educational field visits and educational camps as a coordinator</li><li>• Taught courses: Time Series Analysis, Computational Techniques, Hydraulics and Fluid Mechanics</li><li>• Supervised final year projects on Hydropower of undergraduate students</li></ul>	
<b>Deputy Head of Department</b>	<b>February 2017- April 2018</b>
<ul style="list-style-type: none"><li>• Coordination with college management, faculty members and students for effective scheduling of classes, developing and implementing proper strategic plans towards academic excellence, as a team member of faculty selection committee</li><li>• Supervision and monitoring of student academic progress</li><li>• Taught courses: Engineering Hydrology, Time Series Analysis, Computational Techniques, Irrigation &amp; Drainage Engineering, Hydraulics, Fluid Mechanics</li></ul>	
<b>Lecturer/Year Coordinator</b>	<b>June 2011-February 2017</b>
<ul style="list-style-type: none"><li>• Prepared academic plan, managed class routine</li><li>• Taught courses Fluid Mechanics (Lecture &amp; Lab), Applied Mechanics, Engineering Economics, Theory of Structures-I (Lecture &amp; Lab), Strength of Materials (Lecture &amp; Lab) &amp; Surveying Practical</li><li>• Trained AUTO-CAD, ARC-GIS, HEC-RAS, HEC-HMS for undergraduate students.</li></ul>	

- **Visiting Lecturer** **February 2015 - November 2018**  
 Taught courses related to civil engineering in different engineering colleges, M.Sc. entrance and public service commission exam preparation classes
  - **Pulchowk Campus, IOE, Tribhuvan University, Lalitpur-** Time Series Analysis (May, 2018)
  - **Purwanchal Campus, IOE, Tribhuvan University, Dharan-** Hydraulics (May, 2015)
  - **Kathford Engineering College, Lalitpur-** Time Series Analysis (May, 2015), Fluid Mechanics (October, 2015), Hydraulics (May, 2015)
  - **Sagarmatha Engineering College, Lalitpur-** Hydraulics (May, 2015), Fluid Mechanics (October, 2015), Final year project supervising on Hydropower (October, 2015)
  - **Lalitpur Engineering College, Lalitpur-** Fluid Mechanics (May, 2015), Hydraulics (October, 2015)
  
- **IMERC Pvt. Ltd., Lalitpur, Nepal** **April 2015-Onwards**  
**Consultant Engineer (Part-Time)**
  - Hydrology analysis for bridge design projects
  - Preparation of scour and floodway analysis report
  - Analyzed and recommended different river training structures and bio-engineering techniques
  - Prepared specifications, detailed quantity computation and cost estimation

## Academic Background

**M.Sc. Water Resources Engineering, August, 2015**, IOE, Pulchowk Campus, T.U., Nepal

**B. E. in Civil Engineering, March, 2010**, Kathmandu Engineering College, T.U., Nepal

## Award and Scholarship

- **“Post Graduate Diploma on Urban Land Development”** from **Erasmus University, Rotterdam, Netherlands** in 2015 by **Nuffic Scholarship**.
- Recipient of **“Best Master Thesis”** award from Nepal Engineer’s Association Japan (**NEJA**), Japan (2014)
- Recipient of **“Research Assistant”** for Master’s Thesis Research at **University of Yamanashi** from Japan International Cooperation Agency (**JICA**), (2014)
- Recipient of **“Scholarship”** from Kathmandu Engineering College for Bachelor of Engineering (B.E.) (2006-2010)
- Recipient of **“Outstanding Student Stipend”**, Kathmandu Engineering College, Nepal (2006-2010)
- Recipient of **“Best Student ”** award, in 10 +2, Kamala Higher Secondary School, Sindhuli, Nepal (2004-2006)
- Recipient of **“District Topper”** among girl students in SLC , Sindhuli Municipality, (2004)
- Recipient of **“Best Student and School Topper”** award, in SLC, Gaumati Ma. Vi. School, Sindhuli, (2004)

## **General Research Interest Areas**

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In the field of water resources engineering and integrated water resources management including climate change for sustainable development

## **Specific Research Interest Areas**

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Estimation of Flow Using Satellite Rainfall Data, Hydrological Rainfall-Runoff Modeling, GIS Mapping and Hydrological Analysis

## **Experienced Research Areas**

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Estimation of Flow Using Satellite Rainfall Data, Hydrological Rainfall-Runoff Modeling, GIS Mapping and Hydrological Analysis

## **Key Publications**

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- **Thapa S., Shakya N. M., 2017.** Flow Estimation Using TRMM V7 Satellite Rainfall Data and Grid Based Distributed Hydrological Model in Bagmati Basin. Office of Kathmandu Engineering College Research and Publications (OKRP volume-3), pp 38-44.

## **Professional and Social Affiliations**

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- Member of Nepal Engineering Council (Registration No. : 6844 Civil A Category)
- Member of Nepal Engineer Association (Membership No. : 12811 Civil)
- Elected Member of Teachers Association in IOE, Pulchowk Campus, 2018

## **Research Projects**

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- On-going research project:  
Hydrological analysis with water resources mapping along with water induced hazards mapping of Kathmandu valley for urban planning