**Curriculum Vitae**

**Dipti Tiwari**

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| **Institute Address:** |  |
| University of Sherbrooke |
| 2500, boulevard Université de Sherbrooke |
| (Québec) J1K 2R1 |
| **Contact**: +91-9893600851 |
| **E-mail:** [diptitiwari1992@gmail.com](mailto:diptitiwari1992@gmail.com) , [tiwd2801@Usherbrooke.ca](mailto:tiwd2801@Usherbrooke.ca) |

**Objectives:**

* To build a long-term career in research in Hydrology and Water Resources with opportunities for career growth.
* To enhance my educational and professional skills in a stable and dynamic workplace.
* To solve problems in a creative and effective manner in a challenging position.

**Qualifications:**

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| **Doctorate (Civil Engineering)** | 2019-pursuing |
| **M.tech (Water Resource Engineering)** | 2015 - 2017 |
| Maulana Azad National Institute of Technology, Bhopal | CGPA- **8.82/10** |
| **B.Tech(Civil Engineering)** | 2010 - 2014 |
| Visveswarya National Institute of Technology, Nagpur | CGPA **- 8.37/10** |
| **Intermediate** | -2009 |
| B.N.S.D. Shiksha Niketan Benajhabar Kanpur, U.P. | Percentage**- 88.8%** |
| **High School** | -2007 |
| B.N.S.D. Shiksha Niketan Benajhabar Kanpur, U.P. | Percentage- **87.7%** |

**English proficiency:**

**IELTS SCORE: Overall -7**

* Reading-8.0
* Writing-6.0
* Listening-7.0
* Speaking-6.5

**Achievements:**

* **Winter School- 10 January 2020 to 22 January 2020**

Attended principals of hydrology course organized by university of Saskatchewan and university of Calgary

* Gate qualified 2015, 2016,2019.
* Attended CEA FEST (all India civil engineering festival) organized by IIT M.
* Participated in model making competition and got first prize in CEA FEST.
* 3rd rank in water resource department in M.tech.

**Technical Skills:**

**Software proficiency**

* Arc-GIS, QGIS
* ERDAS Imagine
* HEC-HMS
* HEC-RAS

**Languages**

* MATLAB
* C

**Operating System**

* MS Office (Word, Excel, Power point)

**Educational Research:**

**M.Tech Thesis Topic:** Estimation of runoff in Patan watershed of Narmada Basin using QGIS and SWAT model: The main objective of the topic is to analyze the previous runoff and their causes, occurred in a particular area and to estimate the future runoff that may happen in the ongoing years.

**B.Tech Final Year Project:** Flow Measurement Analysis of Open Channel Using Circular Flume: Under this Project we studied different types of flumes and their behavior and performed flow measurement analysis of open channel using circular flumes.

**Research Experience:**

Worked as a Junior Research Fellow in project “Integrated management of water resources for quantity in upper Yamuna basin” under NHP in National Institute of Hydrology, Roorkee, India from 6 June 2018 till 23 September 2019.

Research work actively involves hydrological modelling using SWAT model on Upper Yamuna Basin, climate change effect on watershed, rainfall runoff modelling of ungauged basins like Hindon basin using HEC-HMS, field visit and ground truthing.

**Teaching Experience:**

One year (Aug 2017-May 2018) as assistant professor in Quantum University, Roorkee, India.

Subjects taught:

* Hydrology and water resources
* Laboratory experiments such as Hydrograph Analysis, Determination of Soil Intake Characteristics using Cylinder Infiltrometer.

**Research Interest:**

* Rainfall-Runoff modeling.
* Climate change impacts on hydrological processes.
* Prediction in ungauged basins
* Regional frequency analysis of extreme rainfall and floods.
* Water Resources/ Hydrology/Groundwater.
* Geospatial technology applications in the field of Snow, Ice and Glaciers.

**Publications:**

**1. Dipti Tiwari,** Rohtash, Dr. H.L.Tiwari (**2018**),“Hydrological modelling in Narmada Basin using Remote sensing and GIS with SWAT model and runoff prediction in Patan watershed” IJARIIT volume- 2 Issue 2, March April 2018

**2.** Rohtash, **Dipti Tiwari,** Dr. M.K.Choudhary (2018), “Rainfall - Trend analysis for Chaliyar River basin in Kerala” IJARIIT volume- 2 Issue 2, March April 2018

**3. Dipti Tiwari**, Dr. Ajay Ahirwar, Dr. Anupama Sharma (2018), “International Conference on Hydrology and Watershed Management” “Simulation of Rainfall-Runoff Process Using HEC-HMS model for Ungauged Catchment.”

**4.** Rohtash, Dr. L. N. Thakural, Dr. M. K. Choudhary, **Dipti Tiwari,** "Rainfall Runoff Modeling Using SWAT Model for Chaliyar Basin Kerala, India", International Journal of Science and Research (IJSR), https://www.ijsr.net/search\_index\_results\_paperid.php?id=ART20197506, Volume 8 Issue 5, May 2019, 90 – 97

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| **Personal Information:** | |  | |
| Date of Birth: Jan 29,1992 | | House No: 7/15 Adarash Nagar | |
| Nationality: Indian  Passport No: S6538498 | | Post: Shukla Gunj  Distt: Unnao-209861 | |
| Sex: Female | | Uttar Pradesh, India | |
| **References:** | | |
| **1.**Name : Mr. Robert Leconte  Job link: Professor  Local: C2-2052  Phone :819 821-7247  Fax: 819 821-7974  Email: [Robert.Leconte@USherbrooke.ca](mailto:Robert.Leconte@USherbrooke.ca) | **2.**Name :Ms. Mélanie Trudel  Job link: Professor  Local: C2-1002-1  Phone : 819 821-8000  Email: [Melanie.Trudel@USherbrooke.ca](mailto:Melanie.Trudel@USherbrooke.ca) | |

Declaration: I, hereby declare that all the details furnished above are true to the best of my knowledge and belief.

**DIPTI TIWARI**