



# AJAY KUMAR

Assistant Professor, Civil Engineering Department,  
GBPIET, Pauri Garhwal, Uttarakhand, India

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## EDUCATION

Year	Degree	University/College	CGPA
2015	M.Tech.	IITB Powai Mumbai, MH, India	9.37/10
2013	B.Tech.	NIT Hamirpur, HP, India	7.93/10

## MASTER'S THESIS

**"Snow-melt Runoff Simulation for Spiti Watershed in Western Himalayas Using Remote Sensing and GIS" under the guidance of Dr. RAAJ Ramsankaran, CED, IITB, Powai Mumbai MH India.**

- Used satellite data for estimating the runoff in the river.
- Evaluated the performance of SRM (Snow-melt Runoff Model) for Himalayan watershed.

## PUBLICATIONS

- Kulshrestha, S., Ramsankaran, R., **Kumar, A.**, Arora, M. and Santhil Kumar, A.R. (2018). "Investigating the Performance of Snowmelt Runoff Model Using Temporally Varying Near-surface Lapse Rate in Western Himalayas". *Current Science* Feb 2018 pp 808-813.

## SHORT TERM COURSES AND FDP

- Participated in MHRD sponsored TEQIP one-week training workshop on "Advancements in Remote Sensing Data Analysis" from 17-21 June 2019 organized by Civil Engineering Department, IIT Roorkee.
- Participated in faculty develop program on topic of "Use of Advanced Surveying Instruments and Tools" from 20-22 September 2016, Civil Engineering Department, ITER, Siksha 'O' Anusandhan, Bhubaneswar, Odisha.

## WORK EXPERIENCE

- Assistant Professor, Civil Engineering Department, Institute of Technical Education and Research (ITER) Siksha 'O' Anusandhan, Bhubaneswar Odisha. **May 2015- Oct 2018**
- Assistant Professor (NPIU), Civil Engineering Department, Bipin Tripathi Kumaon Institute of Technology (BTKIT), Dwarahat, Uttarakhand. **Oct 2018- Apr 2019**
- Assistant Professor, Civil Engineering Department, Govind Ballabh Pant Institute of Engineering & Technology, Pauri Garhwal (GBPIET), Pauri Garhwal Uttarakhand. **Apr 2019- Ongoing**

## MAJOR ACCOMPLISHMENTS

- I was part of Local Organization Committee (LOC) for TROPMET-2016 "National Symposium on Tropical Meteorology and Climate Change, and Vulnerability of Coastal Zone", 18-21 December, 2016, Bhubaneswar, Odisha, India, organized by IMS Delhi, IMD- Bhubaneswar, Odisha State Govt. and SOA University.
- Worked as coordinator of a section along with two Odisha State Govt. engineers in Induction Training Program for newly selected Assistant Executive Engineers (AEE) in Water Resource Department Odisha State Government from 21-03-2016 to 29-05-2016. Our team of 3 members was responsible to evaluating the assignments, Quizzes and weekly PPTs presented by AEE of a particular section.
- I have also taken classes to trained the Assistant Executive Engineers of water resource department Odisha State government to use DGPS and Total station during above mentioned Induction Training Program.
- I was also the member of accreditation team of Civil Engineering Department ITER. As a team member I was involved in preparing necessary documents required for various visits, which include NAAC, UGC, and ABET.



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## COURSES TAUGHT

SN	Title of Course Taught	Level (UG/PG)	No. of Times
1.	Surveying (Lab work is integrated)	UG (3 <sup>rd</sup> Semester)	4
2.	Advanced Surveying	UG (4 <sup>th</sup> Semester)	1
2.	Groundwater Science	UG (7 <sup>th</sup> Semester)	2
3.	Remote Sensing and GIS	UG (7 <sup>th</sup> Semester)	1
4.	Fluid Mechanics (Lab work is integrated)	UG (6 <sup>th</sup> Semester)	1
5.	Reinforced Concrete Design	UG (6 <sup>th</sup> Semester)	1
6.	Construction Management	UG (6 <sup>th</sup> Semester)	1

## ACHIEVEMENTS AS A STUDENT

- Top class education MHRD scholarship during full tenure of B.Tech.
- Won "1<sup>st</sup> prize" in "CONBOAT" contest (making a concrete boat which was tested for carrying maximum load) the best event award winning event at NIMBUS 2011, National level Technical Festival at NITH.
- Won "2<sup>nd</sup> prize" in "Technical Quiz" contest organized by C-Helix at NIMBUS 2011 National-level Technical Festival at NITH.
- Won "1<sup>st</sup> prize" in "Earthquake Resistant Frame Model Design" during Sygnet 2013 of C-SOC (Civil Engineering Society) Technical Festival at NITH.
- Completed NSS course for 'B' certificate during 2006-2008.

## SOFTWARE PROFICIENCY

SN	Software/Programming	Proficiency
1	QGIS	Excellent
2	ArcGIS	Excellent
3	Erdas Imagine	Very Good
4	Envi	Good
5	MS Office	Excellent
6	C	Good
7	C++	Good
8	Matlab	Good
9	Latax	Good
10	Ansys	Good
11	Staad Pro	Good

## EXTRACURRICULARS

- Completed three months yoga course from 05 Oct 2013 to 11 Jan 2014 at Shakha- IITB, under the guidance of Prof. E.P. Rao associated with Shri Ambika Yog Kuteer Thane Mumbai, MH, India.
- My other hobbies include reading books, watching documentary, listening music, following cricket etc..