

## Faculty Profile

**Faculty Name:** Dr. A.Uday Kumar

**Department:** Civil

**Designation:** Associate. Professor

**Date of Joining the Institution:** 14-12-2020



### **Faculty Description:**

Dr. A.Uday Kumar received his Ph.D. in Water Resource Engineering from National Institute of Technology, Warangal, Telangana, in year 2020; M.Tech. in Water Resource Engineering from National Institute of Technology, Warangal, Telangana, in the year 2014 and B.Tech. in Civil Engineering from Intell Engineering College, J.N.T.U.Anantapur, Andhra Pradesh, in the year 2012. He has two years of teaching and four years of research experience. He teaches Hydrology, Water Resource and Irrigation.

### **Qualification:**

Qualification	Institution	Year
B.Tech(Civil)	J.N.T.U.Anantapur, Andhra Pradesh.	2012
M.Tech(WRE)	NIT Warangal, Telangana	2014
Ph.D.	NIT Warangal, Telangana	2020

### **Experience:**

Designation	Institution	From	To
Associate. Professor	DRKVSRIIT, Kurnool	14.12.2020	Till Date

### **Awards / Achievement:**

Received research fellowship from Ministry of Human Resource Development, Government of India for pursuing MTech. (2012-2014) and PhD (2015-2020)

## Responsibilities:

- ✓ Working as a faculty  
The following responsibilities are carried out as a faculty
  - Teaching regular Course Work
  - Mentoring the Students
  - Continues research

## Expertise / List of subjects handled:

- Irrigation Engineering
- Water Resource Engineering
- Ground Water
- Surface Water

## Research Interest:

- Flood modeling
- Environmental Flow Requirements

## Publications:

## Conferences:

1. Uday Kumar A and K V Jayakumar (2016), "Hydrological Approach to Develop Environmental Flow Duration Curve", National Conference on Water Resources and Flood Management with Special Reference to Flood Modelling, HYDRO 2016, Organized by the Indian Society for Hydraulics, Surat, 14-15 October
2. **Uday Kumar A** and K V Jayakumar (2017) "Assessment of Hydrological Alteration Due To Human Intervention on River Flow Regimes" 22nd International Conference on Hydraulics, Water Resources and Coastal Engineering, HYDRO 2017 Organized by the Indian Society of Hydraulics, Ahmedabad, 21-23 December.
3. **Uday Kumar A** and K V Jayakumar (2019) "Environmental Flow Requirements for the Krishna River" HYDRO 2019 Organized by the Indian Society of Hydraulics, Hyderabad, 22- 24 December

## Journals:

1. **Uday Kumar, A.**, and Jayakumar, K. V. (2018). "Assessment of hydrological alteration and environmental flow requirements for Srisailem dam on Krishna River, India". Water Policy, 20 (6), pp 1176- 1190. <https://doi.org/10.2166/wp.2018.203>. (Index in SCI & Scopus) Impact factor (1.1)

2. **Uday Kumar, A.**, and Jayakumar, K. V. (2018). "Assessment of Environmental Flows using Hydrological Methods for Krishna River, India". *Advances in Environmental Research*, 7 (3), pp 161-175. <https://doi.org/10.12989/aer.2018.7.3.161>. (Index in ESCI & Scopus)
3. **Uday Kumar, A.**, and Jayakumar, K. V. (2020). "Hydrological alterations due to anthropogenic activities in Krishna River Basin, India". *Ecological Indicators*, 108. <https://doi.org/10.1016/j.ecolind.2019.105663>. (Index in SCI & Scopus) Impact Factor (4.2)
4. Padhiary, J, K C Patra, S. S. Dash, and **A. Uday Kumar**. "Climate change impact assessment on hydrological fluxes based on ensemble GCM outputs: a case study in eastern Indian River Basin." *Journal of Water and Climate Change* (2019). 11 (4), <https://doi.org/10.2166/wcc.2019.080>. (Index in SCI & Scopus) Impact Factor (1.25)
5. **A.Uday Kumar.**, and Jayakumar, K. V. "Modelling of Environmental Flow Requirements using Hydraulic and Habitation Models" (Accepted in *Ecological Indicators*) (Index in SCI & Scopus) Impact Factor (4.2)
6. **A.Uday Kumar.**, and Jayakumar, K. V. "Hydrological Alteration along the Middle and Lower Krishna River Basin" (under review in *ISH journal of Hydraulic Engineering*) (Index in Scopus) (Accepted)

***Faculty Development Programs and Workshops Attended:***

1. Workshop on "Surge Analysis and Design of Water Conveyance Systems in Lift Irrigation Schemes". NIT Warangal, 18 – 20, June 2014.
2. One-week Faculty Development programme on "Pedagogical Skill for Teacher- Aspirants in Science and Engineering Education". NIT Warangal, 20 - 25 October, 2016.
3. International Conference on "Climate Change, Water, Agriculture and Food Security (ICCCWAFS)" organized at ICRISAT, Hyderabad, 2- 3 November, 2016.
4. Workshop on "Analysis and Design of Water Distribution Networks", NIT Warangal, 16-18 March, 2017.
5. Faculty Development Workshop on "R-programming Concepts and Applications for teachers in higher education" organized by the Department of Civil Engineering, NIT Warangal, 13 – 17, September 2017.
6. Workshop on "Analysis System (ANSYS)" NIT Warangal, on 24th August, 2018.
7. Workshop on "Role of IPR in innovation Management for Academia – Industry Collaboration"- NIT Warangal, 17th November, 2018
8. Workshop on "Hydrological and water resource modelling of river basins under climate change scenarios" organized by the Department of Civil Engineering, under **SAPRC**, (International Faculty: Prof V Sridhar from Virginia Tech, USA) NIT Warangal, 03- 04 July, 2019.

**Youtube Channel:** [https://www.youtube.com/channel/UCQTDeOo2Xs8pB\\_gJPCv-ala](https://www.youtube.com/channel/UCQTDeOo2Xs8pB_gJPCv-ala)

**Blog:**

<https://drudaykumar.blogspot.com/>