

CURRICULUM VITAE

Dr. KUMAR AMRIT

Scientist

Mumbai Zonal Center

CSIR-National Environmental Engineering Research Institute

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Google Scholar Profile: <https://scholar.google.co.in/citations?user=U5dEGm0AAAAJ&hl=en>

RESEARCH INTEREST

Drought monitoring, Environmental flow, Hydrological Modeling, Groundwater modeling, Water resources management

WORK EXPERIENCE

Designation	Organization	Duration
Scientist	CSIR-National Environmental Engineering Research Institute	September 2019 till date
Research Associate	National Institute of Hydrology, Roorkee	June 2018 to Aug 2019

ACADEMIC QUALIFICATIONS

Qualification	Specialization	University
Ph.D. (2013-2018)	Water Resources Development & Management	Indian Institute Technology Roorkee
M.TECH. (2011-2013)	Soil & Water Conservation Engineering	Banaras Hindu University, Varanasi
B.TECH (2007-2011)	Agricultural Engineering	C S Azad University of Agriculture & Technology, Kanpur

AWARDS AND ACHIEVEMENTS

- Awarded with **Orange Knowledge Program (OKP) 2019** fellowship from Government of the Netherlands.
- **Best Water Resources Student Award 2018** for the best doctoral thesis, given by “Indian Water Resources Society”.
- Awarded with the fellowship from the Netherlands Government under **Netherlands fellowship Program 2017**.
- Awarded with the fellowship from University of Bergen, Norway to attend the **Bergen Summer Research School 2017**.
- **MHRD** fellowship for pursuing PhD provided by Government of India, New Delhi
- Awarded with **University’s Silver Medal** in B. Tech.

- **First Division** in Master graduation at Banaras Hindu University, India
- **AIR-62** in **GATE-2012**
- NTS given by ICAR, during B. Tech.
- NSS Certificate affiliated by Government of India
- **First Prize** in Technical seminar in annual college festival
- **First Prize** in SAAR Talent Search Examination 2003.

MEMBERSHIP

1. **Life member**, Indian Water Resources Society.
2. **Life member**, Indian Association of Hydrologists.
3. **Student member**, American Society of Civil Engineers.
4. **Member**, International Association of Hydrological Sciences.

RESEARCH PUBLICATION

Peer Reviewed Journals

- **Amrit K.**, Mishra S. K., Pandey R. P., Himanshu S. K., Singh S., 2019. “Standardized Precipitation Index based Approach to Predict Environmental Flow Condition”, *Ecohydrology*, (DOI: 10.1002/eco.2127).
- Mishra, S. K., **Amrit, K.**, & Pandey, R. P. (2019). Correlation between Tennant method and Standardized Precipitation Index for Predicting Environmental Flow Condition using Rainfall in Godavari Basin. *Paddy and Water Environment*, Springer, (DOI: 10.1007/s10333-019-00747-w).
- **Amrit, K.**, Pandey, R. P., Mishra, S. K., & Daradur, M. (2018). Relationship of drought frequency and severity with range of annual temperature variation. *Natural Hazards*, 92(2), 1199-1210.
- **Amrit, K.**, Pandey, R. P., & Mishra, S. K. (2018). Characteristics of meteorological droughts in northwestern India. *Natural Hazards*, 94(2), 561-582.
- **Amrit K.**, Mishra S. K., Pandey R. P., 2017. “Tennant Concept Coupled With Standardized Precipitation Index for Environmental Flow Prediction from Rainfall”, *Journal of Hydrologic Engineering*, 23(2), 05017031.
- **Amrit K.**, Pandey R. P., Mishra S. K., 2017. “Assessment of meteorological drought characteristics over Central India. *Sustainable Water Resources Management*, 4(4), 999-1010.
- **Amrit K.**, Singh S., Singh R. M., 2016. Estimation of Natural Groundwater Recharge Using MIKE11 NAM Model, *Indian Journal of Soil Conservation*. Vol.44 (2), pp. 216-220.
- **Amrit K.**, Pandey R. P., Mishra S. K., 2014. “Study of regional Meteorological Drought Characteristics in Rajasthan”, *International Journal of Scientific Engineering and Technology*, ISSN: 2277-1581, pp. 83-87.

Book Chapters

- **Amrit K.**, Mishra S. K., Pandey R. P., 2018. Coupling of Tennant Concept with Standardized Precipitation Index (SPI) for the Prediction of Environmental Flow **Condition** from Rainfall in Upper Narmada Basin. In *Climate Change Impacts* (pp. 265-272). Springer, Singapore

- **Amrit K.**, Pandey R. P., Mishra S. K., 2019. "Meteorological Drought Characteristics in Eastern India". In Springer (**Under consideration**).

International Conference Papers:

- **Amrit K.**, Kumre S. K., Mishra S. K., Pandey R. P. " Assessment of Environmental Flow Condition in Indian River Basin Using SPI. In *World Environmental and Water Resources Congress 2019*. (DOI:10.1061/9780784482339.032).
- **Amrit K.**, Pandey R. P., Mishra S. K., Kumre S. K., "Long-Term Meteorological Drought Characteristics in Southern India. In *World Environmental and Water Resources Congress 2018* (pp. 207-215).
- **Amrit K.**, Mishra S. K., Pandey R. P. "Prediction of Environmental Flow Condition Using the Standardized Precipitation Index in Mahanadi Basin, India. In *World Environmental and Water Resources Congress 2017* (pp. 294-301).
- **Amrit K.**, Mishra S. K., Pandey R. P. "SPI Based Assessment of Environmental Flow Condition". In International Conference on Sustainable Technologies for Intelligent Water Management, 2018, IIT Roorkee, India.

EDUCATIONAL INTERNSHIP / TRAINING / WORKSHOP

- Attended short course on "**Where there is little data: How to estimate design variables in poorly gauged basins**" held at UNESCO-IHE, Institute for Water Education Delft, the Netherlands, from 30 October 2017 to 10 November 2017.
- Attended short course on "**Water management, Development Trajectories and the Modern World**" in Bergen Summer Research School organized by the University of Bergen, Norway during June 12-22, 2017.
- National Workshop on "**Hydropower Development and Management- Thinking Ahead**" jointly organized by Indian Water Resource Society and Department of Water Resources Development and Management, IIT Roorkee on April 16, 2017.
- National Workshop on "**Challenges in Irrigation Management for Food Security**" jointly organized by Indian Water Resource Society and Department of Water Resources Development and Management, IIT Roorkee during Nov. 26-27, 2016.
- "**Symposium on Hydrology**" organized by Indian Association of Hydrologists Roorkee.
- Workshop on "**Drought Disaster Risk Assessment and Management**" jointly organized by IIT Roorkee and NIDM New Delhi
- Training on "**Survey and Planning of Watershed for Soil & Water Conservation**" at Central Soil & Water Conservation Research and Training Institute Dehradun, Uttarakhand, India.
- 01 Month summer -training at **Central Farm Machinery Training and Testing, Institute**, Budni, Madhya Pradesh.