

Teaching Experience (in this college): 10 Years

Teaching Experience: 15 Years

- 01-07-2022 to till now – Associate Professor - R.V.R. & J.C. College of Engg.
- 27-04-2015 to 30-06-2022 - Assistant Professor – R.V.R. & J.C. College of Engg.
- 01-08-2013 to 25-04-2015 - Assistant Professor - Vignan University.
- 15-06-2009 to 31-07-2013 - Assistant Professor -Bapatla Engineering College.

Journal Publications

1. **Leela Krishna Karnatapu** and Srinivasa Prasad Annavarapu, V.S.Maruthi Krishna Paturu, Srikanth Kumar Mangalagiri (2023) “Optimal reservoir operating policies with conflicting objectives in fuzzy environment by GA-NLP hybrid approach – A case study” Eur.Chem.Bull. 12(3).
2. A.Srinivasa Prasad, G.K.Viswanadh, P.V.S.Maruthi Krishna and **K.Leela Krishna** (2022) “Optimal annual allocation model of large storage based irrigation project by multilevel approach” Eco. Env. & Cons. 28 (2, Supple.Issue).
3. **K. Leela Krishna**, A. Srinivasa Prasad (2021) ‘Best compromised reservoir operating policy under uncertain inflows by fuzzy linear programming’ Ecology, Environment and Conservation, Vol. 27 (2), 650–655, 2021. (ISSN: 0971–765X, Scopus Indexed).
4. **K.Leela Krishna**, Dr.A.Srinivasa Prasad, Dr. N.V.Umamahesh (2020), “Multi – Objective Reservoir Operating Strategies by Genetic Algorithm and Non-Linear Programming (GA-NLP) Hybrid Approach”, Journal of The Institution of Engineers (India): Series A , Vol 101(1) (DOI: 10.1007/s40030-019-00419-2) - Scopus indexed Journal.
5. **K.Leela Krishna**, Dr.A.Srinivasa Prasad, Dr. N.V.Umamahesh (2019), “Optimal crop water allocation coupled with reservoir operation by Genetic Algorithm and Non-Linear Programming (GA-NLP) hybrid approach” Journal of Physics: Conference Series, Volume 1344, Number 1 (DOI:10.1088/1742-6596/1344/1/012006) – Scopus indexed Journal.
6. Dr.A.Srinivasa Prasad, **K.Leela Krishna** (2019), “Optimal design of looped water supply network by GA-NLP hybrid approach” Journal of Physics: Conference Series, Volume 1344, Number 1 (DOI:10.1088/1742-6596/1344/1/012030) - Scopus indexed Journal.
7. **K. Leela Krishna**, N. V. Umamahesh& A. Srinivasa Prasad (2018) "Optimal multipurpose reservoir operation planning using Genetic Algorithm and Non Linear Programming (GA-NLP) hybrid approach", ISH Journal of Hydraulic Engineering, VOL. 24, NO. 2, 258–265. (Taylor and Francis publishers- scopus Journal).
8. **K. Leela Krishna**, titled “Urban sprawl change detection analysis of Vijayawada city using multitemporal remote sensing data” published in Journal of Chemical

and Pharmaceutical Research with ISSN 0975-7384, Volume 6, Number 11 (2014), P.No. 728-734. (Scopus journal).

9. **K. Leela Krishna**, titled “GIS Application in Land Use Planning of Vijayawada Urban Area” published in International Journal of Oceans and Oceanography with ISSN 0973-2667, Volume 7, Number 1 (2013), P.No. 83-92.

International Conferences

1. A.Srinivasa Prasad and **K.Leela Krishna**, ‘Optimal Reservoir Release Policy Integrating Irrigation Scheduling’ International Conference on Innovative and Sustainable Technologies in Civil Engineering (ISTCE-2021), Bapatla Engineering College, September 24-25, 2021.
2. A.Srinivasa Prasad, R.Chandra Mohan and **K.Leela Krishna**, ‘Land use and Land cover change and sustainability assessment of Vijayawada city by RS & GIS’ International Conference on Innovative and Sustainable Technologies in Civil Engineering (ISTCE-2021), Bapatla Engineering College, September 24-25, 2021.
3. **K.Leela Krishna**, Dr. A.Srinivasa Prasad, Dr. N.V.Umamahesh, “Best compromised Multi-purpose reservoir operating policy under uncertain inflows by Fuzzy Linear Programming”, HYDRO 2019- International Conference at Osmania University during 18-20 Dec 2019.
4. **K.Leela Krishna**, Dr.A.Srinivasa Prasad, Dr. N.V.Umamahesh, “Optimal crop water allocation coupled with reservoir operation by Genetic Algorithm and Non-Linear Programming (GA-NLP) hybrid approach”, International conference on Recent inventions and Innovations in mathematical sciences (ICRIIMS-2019) at Andhra University during 28th Feb and 01st march 2019.
5. Dr.A.Srinivasa Prasad, **K.Leela Krishna**, “Optimal design of looped water supply network by GA-NLP hybrid approach”, International conference on Recent inventions and Innovations in mathematical sciences (ICRIIMS-2019) at Andhra University during 28th Feb and 01st march 2019.

National Conferences

1. **K.Leela Krishna**, A.Srinivasaprasad, N.V.Uma Mahesh, “Optimal reservoir operating policies by using Genetic Algorithms”, three-day national conference on water, Environment & society (NCWES-2016) at centre for water resources, JNTU Hyderabad , 6-8th Jun 2016.
2. **K.Leela Krishna**, A.Srinivasaprasad, “Optimal steady-state reservoir operating policy by Stochastic Dynamic Programming ”, three-day national conference on water, Environment & society (NCWES-2016) at centre for water resources, JNTU Hyderabad , 6-8th Jun 2016.

3. **K.Leela Krishna**, A.Srinivasaprasad, “ Integrated reservoir operation and Irrigation scheduling ”, three-day national conference on water, Environment & society (NCWES-2016) at centre for water resources, JNTU Hyderabad , 6-8th Jun 2016.
4. **K.Leela Krishna**, A.Srinivasaprasad, N.V.Uma Mahesh, “Forecasting Inflow of srisailam dam using Artificial Neural Networks”, two-day national conference on water, Environment & society (NCWES-2015) at centre for water resources, JNTU Hyderabad , 30-31st July 2015.
5. **K. Leela Krishna** and A. Srinivasa Prasad, “Best compromised multi-purpose reservoir operating policy under conflicting objectives by fuzzy linear programming” National Conference on Emerging Practices and Innovations in Civil Engineering (EPIC 2020), S.R.K.R. Engineering College, Bhimavaram, Oct. 26–27, 2020.
6. **K. Leela Krishna**, A. Srinivasa Prasad, ‘Fuzzy logic modelling of reservoir operation – A case study’ 3rd International Conference Design, Construction and Management in Civil Engineering, PSG Institute of Technology and Applied Research, Coimbatore, Tamilnadu, April 23–24, 2021.

Conference Proceedings

- **K. Leela Krishna** and A. Srinivasa Prasad (2020) “Best compromised multi-purpose reservoir operating policy under conflicting objectives by fuzzy linear programming” PANDIT PUBLICATIONS, ISBN: 978-93-89044-24-9.

Workshops/FDPs attended

- “Applications of Soft Computing Techniques in Water Resources Engineering” at IIT Bombay during 02nd -06th Nov 2009.
- “Emerging Trends in Water Supply Sector” at NIT Warangal during 13th -14th April 2012.
- “Soft computing Techniques in Time series Modelling” at IIT Bombay during 11th - 15th Nov 2013.
- “Reservoir sedimentation using RS & GIS” at NIH Kakinada during 12th -14th Feb 2014.
- One-day National workshop on "Geo-spatial Technology for development of Andhra Pradesh" on 20-02-2019 organized by Acharya Nagarjuna University.
- A two-day workshop on "Fuzzy logic and applications in Civil Engineering" during 15th,16th March 2019 at BITS Pilani Hyderabad campus.
- One week FDP on “Effective Teaching and learning practices for operation of water supply system” at NITW during 20th - 25th May 2019
- A two-day "Industry academia meet on waste management sector" organized by water & Environment division, dept. of civil engineering, NITW during 28-29th feb 2020.

- A five-day International Webinar, “Climate Change Impact on Water Resources and Environment”, Organized by Andhra University, Visakhapatnam, Andhra Pradesh, July 15–19, 2020.
- one-week online STTP “Soft computing techniques in civil engineering: water resources, structures & transportation applications” AICTE, Department of Civil Engineering, Shri Vishnu Engineering College for Women, Bhimavaram, July 20–25, 2020.
- Five-day online FDP “Applications of remote sensing & GIS in water resources”, Department of Civil Engineering, N.I.T. Andhra Pradesh, Oct. 19–23, 2020.
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- One week online ATAL FDP, ‘Nature Inspired Optimization Techniques’, National Institute of Technology Delhi, July 19-23, 2021.
- One week online ATAL FDP, ‘**Urban Hydrology**’, G B Pant University of Agriculture and Technology, August 2-6, 2021.

Membership details in professional bodies

1. Life member – (LM-1814) –Indian Association of Hydrologists(IAHS)
2. Life member – (LM-7613) – Indian water resources society (IWRS)
3. Life member – (LM- 8386) – Indian water works association (IWWA)
4. Life member – International Association of Hydrologists (IAH)
5. Life member – (LM-1422) - Indian Society for Hydraulics (ISH)

Administrative Experience

- Working as a Convener of Waste management and Environment improvement measures committee from 01-01-2024.
- Working as a Member of Time Table committee from March, 2022.
- In-charge H&HM Lab.
- Worked as a Member of Alumni cell.