



CURRICULUM VITAE
Dr. KULKARNI SHASHIKANTH

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h-index:7

i10 index :3

Total Citations: 209

Google Scholar Citations<<https://scholar.google.com/citations?hl=en&user=17K81tIAAAAJ>>

Name : **Prof. K.SHASHIKANTH**
Present Designation : Professor (AGP 10000)

1) EDUCATIONAL QUALIFICATIONS

- ❖ **PhD: Indian Institute of Technology, Bombay (IITB) (8.40 CGPA)**
- ❖ **M.E: Master of Engineering (WRE) (University Visvesvaraya College of Engineering, Bangalore, Bangalore University) (74.97%)**
- ❖ **M.Tech: Master of Technology (Computer Science) (JNTU, Hyderabad) (77.45%)**
- ❖ **B.Tech: Bachelor of Technology (Civil Engg) (SVU, Tirupati) (69.4%)**

PhD Thesis: Statistical Downscaling and Assessing Uncertainty for Regional Projections of Indian Monsoon. (Cleared the First stage for Best PhD thesis award).

ME Thesis: Hydrological Investigations in the Environmentally Degraded Attappady valley of Nilgiri Biosphere Reserve. Did my Thesis work Centre for Water Resources Development and Management Kozhikode, Calicut India.

Completed another M.Tech in Computer Science from JNTUH Kukatpally Hyderabad which is a rare and unique combination.

2) TEACHING & RESEARCH EXPERIENCE

Over 25 years of Teaching Experience having taught different Civil Engineering related courses since 1996 to till date at University College of Engineering, OU and other good Institutions of repute such as CBIT, MGM' s College of Engineering, Nanded, Maharashtra. Further, Research and Development (R&D) experience since 2011.

3) EMPLOYMENTS

S. No	Organization	Post Held
1	University College of Engg. O.U	Professor
2	University College of Engg. O.U	Associate Professor
3	University College of Engg. O.U	Asst. Professor (Sr. Scale)
4	CBIT	Asst. Professor (Sr. Scale)
5	S.S.J. College of Engineering, Mahabubnagar	Lecturer
6	M.G.M's College of Engg Nanded	Lecturer

4) AREAS OF RESEARCH INTERESTS

Statistical Downscaling for climate change Impact Assessment studies
Uncertainty Modeling
Hydrological Extremes
Soft Computing Applications
GIS Applications
Surface Water Hydrology

5) SPONSORED RESEARCH PROJECTS

On Going

1. DST SERB CRG has sanctioned project titled Assessment of Climate Change Impacts on Indian Monsoon Precipitation using New Age CMIP6 Dataset: Implications to Water Security in the Godavari and Narmada Basins (2023) Amount Sanctioned 36.33 Lakhs DST-SERB-CRG CRG/2022/003772.
Co-Pi: Dr. Harish Gupta

2. Influence of Terrestrial feedbacks on Rainfall and Assessment of Droughts and Extremes under climate change Amount Sanctioned 44.00 Lakhs DST-SERB-CRG CRG/2022/004423 on-going

PI: Dr. Amey Pathak IIT Kharagpur Co-PI: K Shashikanth

COMPLETED

3. Co- Principal Investigator for the AC-IWRM Govt of Karnataka sponsored research project on “ Assessment of Climate Change Impact on Precipitation and Stream flow in Middle Krishna (K2), Ghataprabha (K3), Malaprabha (K4), and Lower Bhima (K6) sub basins of Krishna Basin “. (2018-2019).
Main principal investigator:
PI; Dr Nagaraj Patil, VTU.
4. Successfully **Completed TEQIP** Sponsored R&D Project on ‘Extreme Rainfall Projections of Indian Summer Monsoon Rainfall for 21st Century. (2017)
5. Completed UGC Project titled ‘Impacts of climate change on Indian summer monsoon rainfall (ISMR) and temperature distribution in the India (2017-2019) sanctioned by UGC Minor Research Project

6. Consultancy Projects Handled

1. Involved in the Consultancy Projects of **Mission Bhagiratha** Govt. of Telangana for the Districts of Ranga Reddy, Adialabad, Nirmal, Nalgonda. Consultancy mainly consists of Vetting of Hydraulic Design of Pipe networks both primary and secondary networks including Surge Analysis. the Dream and Flagship Project of Govt of Telangana.
2. Involved in the consultancy and vetting of Sewerage treatment plants (STPs) of 0.7 MLD, 1 MLD and 1.5 MLD capacities in Telangana state. (2020)
3. Expert Technical committee member meeting on 04.10.2019 at 4.00 PM at TSIIC Head Office for Setting up of Waste Water Treatment Plant along with 5 years of maintenance in COWE at Automotive & Engineering Cluster at Kallakal (V), Medak (Dist) on “Design, Engineering, Construction, Supply, Installation, Testing, Erection & Commissioning.
4. Involved in the consultancy and vetting of Sewerage treatment plants (STPs) of 225 MLD at Amberpet, 33.5 MLD at Mullakatwa
5. Involved in the consultancy and vetting of Sewerage treatment plants (STPs) of 30 MLD at Ramacheruvu
6. Surge Analysis report & Protection Requirement from Raw water intake to WTP Dhanora for L& T Co. as part of Mission Bhageeratha works at Mission Bhagiratha – Providing drinking water to Komarambheem –Asifabad segment in Adilabad District (2016).

7. Vetting of Hydraulic design of pipe networks under Mucherla segment, for TDWSP Mission Bhagiratha – Providing drinking water- Srisailam segment (2016)

7) Publications

a) International Journals

1. **K.Shashikanth**, Salvi, K., Ghosh, S. and Rajendran, K. (2013), Do CMIP5 Simulations of Indian summer Monsoon Rainfall Differ from those of CMIP3?, Atmospheric Science Letters, doi:10.1002/asl2.466. (**55 Citations : Impact factor 2.15** (Vol 15, Issue 2, pp79-85)
2. Nagraj S. Patil, Shruti Kambalimath, Sneha Syamprasad and **Shashikanth Kulkarni** (2018) comparison of LS_SVM and ANN methods for downscaling of precipitation, International Journal of Advance and Innovative Research (UGC Approved) Volume 5, Issue 3 (IV) PP 61-68, ISSN 23947780.
3. **K.Shashikanth**, Subimal Ghosh (2013) Fine Resolution Indian summer Monsoon Rainfall Projection with Statistical Downscaling International Journal of Chemical, Environmental & Biological Sciences (IJCEBS) Volume 1, Issue 4 (2013) ISSN 2320-4079; EISSN 2320-4087
4. **Shashikanth, K.**, C.G. Madhusoodhanan, Subimal Ghosh, T.I. Eldho, K.Rajendran, Raghu Murtugudde (2014) Comparing statistically downscaled simulations of Indian monsoon at different spatial simulations *Journal of Hydrology (Elsevier Publications)* <http://dx.doi.org/10.1016/j.jhydrol.2014.10.042> (**18 Citations : Impact factor 5.722**) Vol 519 Part D PP 3163-3177
5. **Shashikanth, K.**, Prashanthi. M, (2017) Modeling of Extreme Rainfall Projections of Indian Monsoon under Climate Change, Indian Journal of Scientific Research (UGC Approved Journal) Indian J.Sci.Res. 15 (2): 15-19, 2017, ISSN: 09762876.
6. **K Shashikanth**, Rajasekhar Reddy, M Anjaneya Prasad (2018) Temperature Projections from GCMs using Quantile Remapping Method , International Journal of Applied Engineering Research (UGC Approved) ISSN 0973-4562 Volume 13, No. 11, 8922-8924.
7. **K Shashikanth** , M Prashanthi (2018) Indian Summer Monsoon Rainfall Extremes Projections Using Block Maxima Approach (2018) , International Journal of Applied Engineering Research (UGC Approved) ISSN 0973-4562 Volume 13, No. 11, 8925-8928.
8. C.G. Madhusoodhanan , **Shashikanth Kulkarni** , T.I.Eldho, Subimal Ghosh (2017) Multi model consensus among GCM simulated and Statistically downscaled Indian summer monsoon rainfall for the 21st century, **International Journal of Climatology**, DOI: 10.1002/joc.5352. Royal Meteorological Society. ISSN: 0899-8418, (Impact Factor, 3.76). Volume 38, Issue 5, 2449-2461
9. **Shashikanth Kulkarni** , Ghosh, S., Vittal H, Karmakar, S. (2017) Future Projections of Indian Summer Monsoon Rainfall Extremes over India with Statistical Downscaling and its Consistency with Observed Characteristics, Climate Dynamics (Springer Publications)

- DOI 10.1007/s00382-017-3604-2. (5 Citations, Impact factor: 4.708) (vol 51, 1-15,2018)
10. **Aditya G, Vittal H, K Shashikanth**, Ghosh, S., Karmakar, S. (2018) Role of Vertical Velocity in Improving Finer Scale Statistical Downscaling for Projection of Extreme Precipitation **Theoretical and Applied Climatology** (Impact factor: 2.43). (Vol 137,791-804, <https://doi.org/10.1007/s00704-018-2615-1>)
 11. **Shashikanth K** and Subimal Ghosh (2022) Regional Comparison of CMIP3 and CMIP5 Precipitation Characteristics” May - July 2022 issue (Volume No : 17, Issue No: 4; i-manager’s Journal on Future Engineering and Technology. Paper id: JFET00405.
 12. **Shashikanth Kulkarni**, T Anurag, Mohammed Hussain, S.V.S.N.D.L Prasanna & Vittal Hari (2022) Comparison of multi-objective and single objective calibration for SWAT model: a case study on Musi river basin, India, *ISH Journal of Hydraulic Engineering*, DOI: 10.1080/09715010.2022.2120369. IF 4.00 (Scopus) 0971-5010
 13. Suriseti, D. S., Kulkarni, S., and Naveen, K. (2021). Sustainable Development Initiatives Through ISO 9001:2015. *International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies*, 12(8), 12A8I, 1-10. <http://doi.org/10.14456/ITJEMAST.2021.156> (Web of Science) IF 1.3
 14. Divya sankar, **Shashikanth Kulkarni**, Amiya Bhumik (2022) Fuzzy Inference system based Risk Management in complex Civil Engg projects, *NeuroQuantology*, Volume 20, Issue 10, page 11334-11342,doi: 10.14704/nq.2022.20.10.NQ551098 (Scopus) IF1.3 (Web of Science). IF 1.3
 15. Divya Sankar, **Dr. Kulkarni Shashikanth**, Dr. Amiya Bhaumik,Dr (2022) Applications of ANFIS in Civil Risk management, *NEUROQUANTOLOGY*, VOLUME 20, ISSUE 15, PAGE 532-541, | DOI: 10.14704/NQ.2022.20.15.NQ88054 Impact Factor 1.3 (Web of Science) IF 1.3
 16. M. Anjaneya Prasad, **K. Shashikanth** , M. Redya Naik, M. Narender Reddy (2018), WATER DISTRIBUTION NETWORK MODEL USING EPANET, *International Journal of Emerging Technology and Advanced Engineering* (UGC Approved) ISSN 2250-2459. <https://ijetae.com/Volume8SpecialIssue5.html>. PP 225-229, Vol. 8 Special Issue, My, 2018.
 17. **Shashikanth, K**, P. Rajasekhar, Satyanarayana D (2015) Future Temperature Projections for India for climate change studies, *Biohouse Journal of Research in Engineering*, Biohouse, Volume 1: Issue 3, Sept-Oct 2015, ISSN 2379-1535.
 18. Rangineni Pallavi, K. Rekha Rani, **Kulkarni Shashikanth**, P. Rajasekhar & Hiteshri Shashtri (2022) Intricate Flood Flow Advancement Modelling In The Krishna River Sub Basin, India, *ISH Journal of Hydraulic Engineering*, DOI: 10.1080/09715010.2021.2019134. IF 4.00 (ISSN: 09715010)
 19. Mohd Hussain, **Shashikanth K**, Srividya Devi, Anurag T, Nikhitha K, ANusha K (2022) Application Of Multiple Linear Regression And Artificial Neural Networks In River Water Quality Modeling To Predict Dissolved Oxygen In Rivers: A Case Study Of

Krishna River In India at 13th INTERNATIONAL CONFERENCE ON MATERIALS PROCESSING AND CHARACTERIZATION in AIP Publishing (Accepted)

20. Alekhya, G.B S, **K. Shashikanth**, M Anjaneya Prasad (2021) Risk Assessment Of Cost Overrun Using Fuzzy Logic Model, *Materials Today: Proceedings* (Elsevier) ISSN 2214-7853, <https://doi.org/10.1016/j.matpr.2021.12.415> IF 2.30
21. Naga Prapurna, **K.Shashikanth** (2002) A research paper on “Pollution level in Hussein Sager Lake of Hyderabad – A case study was published in the international Journal *Pollution Research* (Poll Res. 21(2) : 187-190-2002)

b) International Conferences

22. **K.Shashikanth**, S. Ghosh and K. Rajendran (2012), Fine scale projections of Indian monsoonal rainfall using statistical models, *AGU Fall Meeting, 3-7 Dec 2012, San Francisco, California, USA..*
23. **K.Shashikanth**, Kaustubh Salvi, Subimal Ghosh, K.Rajendran (2013), Statistical Downscaling of Indian Summer Monsoon Rainfall under future climate change *HYDRO International Conference* IITM, Chennai, December 2013.
24. Ashwini Jain, **Shashikanth Kulkarni**, Subimal Ghosh, Partha P. Mukherjee (2013) Projecting Wind Energy potential Under Climate Change With Ensemble of Climate Model Simulations *AGU Fall Meeting*, 9-13 Dec 2013, **San Francisco, California, USA.**
25. Ch.Snigdha, Hrushi Varma, K. Naga Prathyusha, Sai Chetana, **K Shashikanth** (2023) “IoT-BASED SMART WASTE MANAGEMENT SYSTEM” at 2nd International Conference on Emerging Trends in Engg (ICETE23) at UCE, OU, Hyderabad conducted during April 28-30, 2023.
26. K Naresh, **K Shashikanth**, M Narendar Reddy, Sridhar Nune (2019) “ Evaluation of Critical Success factors for Mission Bhagiratha Scheme by using FAII Method and Fried Man’s test at Hydro 2019 International Conference Organized by UCE, OU under the aegis of Indian Society for Hydraulics during 18-20, December, 2019.
27. Navya Sindhu., R.Pallavi, **K Shashikanth** and Madhavi (2019) Urban Storm Water Management using SWMM : A case study on Hyderabad City at Hydro 2019 International Conference Organized by UCE, OU under the aegis of Indian Society for Hydraulics during 18-20, December, 2019 City at Hydro 2019 International Conference Organized by UCE, OU under the aegis of Indian Society for Hydraulics during 18-20, December, 2019.

28. Nagendra, Nagraj Patil, **K Shashikanth**, Nataraj M (2019) Assessment of Climate Extremes over Ghataprabha sub basin of Krishna Basin, India at Hydro 2019 International Conference Organized by UCE, OU under the aegis of Indian Society for Hydraulics during 18-20, December, 2019 City at Hydro 2019 International Conference Organized by UCE, OU under the aegis of Indian Society for Hydraulics during 18-20, December, 2019.
29. **Shashikanth K** and Subimal Ghosh (2022) Robust Signals of Precipitation characteristics from CMIP5 models over CMIP3 International Conference on “Climate Change Impact on Ecosystems: Mitigation and Adaptation” - 22-24 September, 2022, Organized by Engineering Staff College of India, Hyderabad, India.
30. **K.Shashikanth**, Prof. M A Prasad, D. Siva Rama Krishna Sarma (2016) Selection of Suitable Sites for Water Harvesting Structures in Osmania University Campus, using RS and GIS, **HYDRO** International Conference organized by CWPRS, Pune under the aegis of Indian Society for Hydraulics during 8-10, December, 2016.
31. Renuka Raju, P .Rajasekhar and **.K.Shashikanth** (2016) A study on Spatial Distribution of Fluoride Using GIS in Nalgonda District of Telangana, **HYDRO** International Conference organized by CWPRS, Pune under the aegis of Indian Society for Hydraulics during 8-10, December, 2016
32. Shruthi, Rajasekhar, **Shashikanth. K** (2015) Impact of Climate Change on Stream Flows in Manair Basin Using SWAT Model, IC-ISE, at OU, from 14-16, December.
33. **Shashikanth, K** and Sukumar (2015) Simulation of Indian monsoon rainfall for future using GCM model outputs, IC-ISE (International Conference on Innovations in Structural Engineering) , at OU, from 14-16, December.
34. **Shashikanth Kulkarni** and Prashanthi (2017) Modeling of Extreme Rainfall Projections of Indian Monsoon under Climate Change at the International conference on Recent Innovations in Engineering and Technology (**ICRIET-2017**) on 12th March, 2017 at Bhubaneswar, Odisha, India.
35. **Shashikanth Kulkarni** (2011) Determination of Residual chlorine in an intermittent water distribution system 4th International conference perspective on water resources & the Environment, [**ASCE-EWRI**] National University of Singapore, Singapore, January, 4-6, 2011.
36. **Shashikanth, K.**, P.Rajasekhar (2010) “Hydrological Investigations in the Environmentally degraded Attappady Valley of Nilgiri Biosphere Reserve” at the International Conference on Hydrology and Watershed Management Organized by Centre for Water Resources, JNT University, Hyderabad during 18-20 December 2002.
37. **K.Shashikanth**, Y.Sree Ramulu “Post Tsunami Environmental Management “published at the International conference on Natural Hazards and Disaster Management (IC-NHDM-2007) at CBIT from 12-14 December, 2007.
38. I.V. Murali Krishna, VV Nageswara Rao, Y.Sree Ramulu, **K.Shashikanth** (2007) “Integration Natural Hazards into the Environmental Impact Assessment Process (NHIA)” at the International conference on Natural Hazards and Disaster Management at CBIT during 12-14 December 2007.
39. **K.Shashikanth**, Naga Prapurna (2001) Removal of heavy metals in industrial metals in Industrial effluents by using sugar baggasse – A case study” at an International Conference (ICIPACT-2001) at JNTU, Hyderabad from 7-9 December 2001.

40. **K.Shashikanth**, S.Uma Maheswara Reddy (2001) “Air Pollution Management in a Sulphur based Chemical Industry – A case Study” at an International Conference (ICIPACT-2001) at JNTU, Hyderabad from 7-9 December 2001

c) Indian Conferences

41. **Shashikanth, K** and Subimal Ghosh (2015) High resolution modeling of extremes projections of ISMR under climate change, under DRIP conducted by CWC, KWRD and IISc, 12-13, January, 2016 at IISc, Bangalore.
42.) **K Shashikanth** and Subimal Ghosh (2017) “ Ranking Of GCMs Based On Bayesian Model For Indian Summer Monsoon Rainfall” National Conference on Sustainable Water and Environmental Management (SWEM - 2017) held during 21-23, December, 2017 at JNTU Hyderabad.
43. **Shashikanth K** and Gopal Naik (2017) General Circulation Models- Big Data Models in Climate Science, at 4th National Conference on Water, Environment and Society (NCWES – 2017 held at JNTUH from 16-18 March, 2017.
44. **K.Shashikanth**, P.Lokendar Reddy (2007) “Rainfall –runoff modeling using ANN “at the National Conference on soft computing applications in water resources and Environmental NCSCAWREE -07 at OSMANIA UNIVERSITY, from 14-15 December 2007.
45. **K.Shashikanth**, Subimal Ghosh (2013) Fine scale projections of Indian summer monsoon rainfall at IMSP Annual monsoon workshop held at IITM, Pune, 19-20, 2013
46. **K.Shashikanth**, V.V. Nageswara Rao “Introduction of IT in the curriculum of Engg. Education” was presented at National Conference on Technical Education in the New Millennium & Challenges, March 12-13, 2000, Osmania University, and Hyderabad.
47. **K.Shashikanth**, VV Nageswara Rao “Flood Water Management in Rural Areas” was published at All India Conference on Technologies for Rural Development in Y2K+ 0-6-2k & 1-7-2k, Tirupati (India)
48. **K.Shashikanth**, Amey Pathak (2014) Projections of Indian Monsoon Rainfall under climate change with special reference to Telangana State, January, 23-24, 2015 held at CBIT (NC-RENeST).
49. **K.Shashikanth**, S Prasanna (2014) Regional Climatology using statistical downscaling approaches-Recent developments (ISSN-978-93-83635-36-8) NC-RRACE) held in OU from 7-8, November, 2014.
50. **K.Shashikanth**, P Rajasekhar (2014) Climate Models-Are they useful in Projecting Future Climate, Advances in Civil Engineering and Infrastructure Development, held at Vasavi College of Engineering Hyderabad from 6-7 February, 2014 (ISSN-978-93-82570-19-6).

8) EXPERT COMMITTEE MEMBER

a) Other than OU:

i) Telangana State Pollution Control Board (TSPSCB):

Has been serving as technical Committee member for Consent for Operation (CFO) Committee of TSPCB for processing of Industry applications at Zonal office at RC Puram Hyderabad since 2022.

ii) IRRIGATION DEPARTMENT, Govt of Telangana

Appointed as the expert technical committee member to assess the Availability of Godavari waters by Irrigation and CAD Department by the Govt of Telangana, in the dream of Project of Govt of Telangana (21.05.2020)

iii) MEMEBR EXPERT COMMITTEE

- ❖ A high level Expert committee member for sudden Inspection of Engg Colleges under JNTUH Jurisdiction March-April, 2017.

iv) BOARD OF STUDIES (BOS) MEMBER

- ❖ Member, Board of Studies, JNTU Hyderabad
- ❖ Member, Board of Studies, RGUKT Basara, NIRMAL Dist
- ❖ Member, Board of Studies, G.Pulla Reddy Engg College Kurnool,
- ❖ Member, Board of Studies, KGR College of Engg & Technology, Moinabad, RR Dist.
- ❖ Member, Board of Studies, VBIT Hyderabad

v) CONTRIBUTIONS TO OTHER INSTITUTES

- ❖ Reviewer & External Examiner of Ph. D thesis, Academy of Scientific and Innovative Research, Ghaziabad, UP.
- ❖ Reviewer of Ph.D. thesis, JNTU Hyderabad.

vi) Other Useful Contributions to other Institutions

- ❖ **Member of the Expert Committee to examine the objections on Questions and Keys for TSPSC- AEE -Exam- 2023**
- ❖ **Reviewer and Examiner for ME/M.Tech Thesis at Centre for Water Resources IST, JNTUH Hyderabad**
- ❖ **Governing Body and Selection Committee Member for Nrupatunga Degree College, Vivekananda Degree College Kukatpally, Auroras College Uppal, Hyderabad.**
- ❖ **Interview Panel Member for Faculty Appointments at various Institutions such as JNTUH, Hyderabad, JNTUA Anantapuram, AP, G.Pulla Reddy Engg College. Kurnool, AP.**

- ❖ **Acted as General Secretary of QIP forum at IIT Bombay during August 2012- July 2013.**
- ❖ **Member committee to examine the objections of Dy. General Manager posts in Hyderabad water supply & Sewerage Board, Hyderabad (2020)**
- ❖ **Member of the committee constituted by JNTUH for surprise visits to various Engineering colleges affiliated to JNTUH March-April, 2017.**
- ❖ **Member of the Expert Committee for TSPSC- AEE -Exams**
- ❖ **Member of the Expert Committee to examine the objections on Questions and Keys for APPSC- AEE -Exam- 2015, 2017.**
- ❖ **Observer for state level competitive examinations like EAMCET, ECET, TSGENCO, NPDCL, SPDCL and other prestigious competitive exams.**
- ❖ **Observer for EAMCET and ICET Entrance Exams**
- ❖ **Acted as Presiding Officer and Micro-Observed for Elections of Parliament, Assembly & GHMC Elections.**

b) At Osmania University

- i) Currently serving as Additional Controller P1 Section Osmania University Examination Branch since 2022**
- ii) Serving Chairperson, Board of Studies (Autonomous) Department of Civil Engineering, UCE, OU since 2023**
- iii) Currently Serving DRC (Doctoral Research Committee) member in the Department of Civil Engineering UCE, OU**
- iv) Departmental Committee Member of Dept. of Civil Engineering, University College of Engineering.**
- v) Helping Students of CED in NIRMAAN a National Level students Technical Symposiums in Model Development ad Preparation.**

- vi) Worked as Public Relations Officer, UCE, OU from 2016 to 2019.**
- vii) Formerly Joint Director (PG) in the Examination Cell UCE, OU. (2018-2019)**

- viii) Convener for Three week Induction Programme for newly admitted BE I year students for 2018, 2019 & 2020 batches.
- ix) Department Convener for ME part-time admissions for the year 2018-19.
- x) Department Convener for CEEP admissions for PG courses 2023
- xi) Convener for the preparation of National Institutional Ranking Framework (NIRF) report submitted to MHRD, Govt of India, and UCE OU awarded 80 Rank twice (2016 and 2017) and in 2018, ranked 83..
- xii) Member of the committee constituted by TSPSC for setting of question papers.
- xiii) Member of the committee “OU Centenary Help Line” constituted by OU Centenary celebration committee.
- xiv) Worked earlier Programme Officer NSS Unit II at UCE OU. 2010
- xv) Time table In charge Civil Engg Dept UCE OU (2008-2010) (2010)
- xvi) In charge Fluid Mechanics and Environmental Engineering Laboratory UCE, OU (2016-2018)
- xvii) Actively involved in the conduct of Various Conferences / Seminars Held in the Civil Engg department at OU especially HYDRO 2019 International Conference under the aegis of ISH, Pune, Maharashtra State.

7) List of Conferences/ Seminar/Symposia Workshops Attended

S.No.	Name of the Seminar/Conference/ Symposia/ Workshops attended
1	Two Day workshop on “Teaching, Learning and Assessment Methodologies“ University College of Engineering, OU under TEQIP-II Hyderabad, 13-14 Dec, 2016
2	One Day workshop on “How to write Research Proposals“University College of Engineering, OU Hyderabad 18-09-2015.
3	One day workshop on protection of Intellectual Property through patents held at Mahindra Ecole Centrale on 12 September, 2015
4	One day workshop on Integrated Urban Flood management in Hyderabad: Technology Driven Solutions held at BITS, Pilani, Hyderabad Campus on October. 31, 2015
5	Three Week Refresher course on Regional Hydrology of floods at G.B. Pant University of Agriculture and Technology, 8 th January 2018 to 19 th January 2018.
6	3 Week Summer School at UGC HRDC JNTUH (05.06.2017 to 24.06.2017) on Strategies for Research oriented Teaching
7	Regional Workshop on “ National Water Mission (NWM) sponsored one day work shop on State Specific Action Plan

	(SSAP) on Water for sustainable development and management of its water resources. National Institute of Hydrology (NIH) and North Eastern Regional Institute of Water and Land Management (NERIWALM) are the nodal agencies deputed to carry out SSAPs in all the states of India on 5.10.2018.
8	U.S- India Partnership for Climate Resilience Workshop on High-Resolution Climate Projections and Analysis for India, February 12 - 13, 2018 at EPTRI, Hyderabad.
9	One day work shop on State Specific Action Plan for Water Sector (SSAP-W) in Telangana as per the directions of Government of Telangana, in accordance with ToR issued by Ministry of Water Resources, River Development and Ganga Rejuvenation, GOI on 20.03.2017, EPTRI, Hyderabad.
10	One week Professional Development Training (PDT) workshop being organized by IIM Trichy from 14.10.2019- 18.10.2019
11	Two Days Online Training Course on “Evolving the Hydraulic Design of Reservoir and Appurtenant Structures using Physical and Numerical Modelling” conducted on 12-13 January, 2021 by CWPRS, Pune
12	Participated in the SPARC sponsored International Webinar on Mitigation of flood disaster due to hydrological extremes, Organized by Indian Institute Technology Roorkee & Amrita Vishwa Vidyapeetham, 21-22 October 2020

7) Book Chapters

1. Anamitra Saha, **Kulkarni Shashikanth** and Subimal Ghosh (2018) “Changing monsoon behavior with the evaluation of CMIP5 climate models” in book titled “Sustainable holistic water resources management in a changing climate, Jain Brothers, New Delhi,” as a book chapter edited by Srinivasa Raju, K., Vasan, A. (Eds.) M/S Jain Brothers, New Delhi. ISBN: 978-81-8360-253-2.
2. **K.Shashikanth** (2017) State Action Plan for Water Sector in Telangana on Climate Change Projections to predict future water availability submitted to EPTRI (Environmental Protection Training and Research Institute) .
3. Hiteshri Shastri, Kaustubh Salvi, **Shashikanth. K** , S Misra, (2021) A Review of Multicriteria decision making methods with reference to Water Resources and Climate Science Applications. Edited by M Majumdar and Ganesh Kale (ISBN 978-3-030-66682-8 ISBN 978-3-030-66683-5 (eBook) <https://doi.org/10.1007/978-3-030-66683-5> (Springer Nature Publications)

8) Development of MOOCs :

- ❖ (i) Statistical Methods in Water Resources-Principles and Tools (2021)
- ❖ (ii) Statistical Methods in Water Resources-Principles and Tools 2021.

9) Reviewer of Journal

- International Journal of Climatology, Wiley Publishers
- ISH-Journal of Hydraulic Engineering
- Journal of Geological Society of India
- Journal of Water and Climate Change, IWA Publishing
- Journal of Earth System Science, published by Indian Academy of Sciences
- Hindawi Journal
- Reviewer for the INTERNATIONAL CONFERENCE ON INNOVATIONS IN INFRASTRUCTURE (ICIIF 2018) Sponsored by Gujarat Knowledge Society, Ahmadabad held at Institute Technology Research and Management, Ahmadabad, during May 18-19, 2018.

10) Awards and Honours

- ❖ Awarded **Ideal Teacher 2018** by *Tutors Pride of India*
- ❖ Awarded **Best Researcher Award** by **International Academy 2022 (17.2.23)**
- ❖ Received **Vice Chancellors appreciation award for the year 2022 (3.1.22)**
- ❖ Awarded **VC Excellence in Research for the year 2023 (3.1.23)**

11) Guest Lecturers Delivered

Details of Lecture	Name of the Organization	Dates	Venue
Climate model data extraction: a demonstration	QIP, IITB	30 th May, 2016	IITB
CMIP5-Data downloading methodology	QIP-IITB	July, 2,2014	VMCC-IITB
Statistical Downscaling and Data downloading procedure	IIIT, Hyderabad	20 July, 2016	IIITH.
Projections of Rainfall under climate change in Telangana State	Consultation & State Working Group meeting on State Specific Action Plan for water sector in Telangana State, EPTRI	20-03-2017	EPTRI, Hyderabad
General Circulation Models-Big Data Models in Climate Science	4 th National Conference on Sustainable Water and Environment Management (SWEM-17)	16 th – 18 th March 2017	JNTUH
Ranking of GCMs based on Bayesian Model for ISMR	National conference at JNTU Hyderabad	21-23, Dec, 2017	IST, JNTUH
Use and Applicability of General Circulation Models in the Simulation of Climate System	5 th National Conference on Sustainable Water and Environment Management (SWEM-17)	June 4-6, 2018.	JNTUH
Hydrological Flood studies including Routing Techniques	Workshop on Hydrology for Engineers from Water Resources Dept , Govt of Karnataka	30 and 31 January, 2018.	VTU Regional Center, Kalaburgi
Climate change and extreme events – Framework for rainfall extreme Projections under Climate Change – Climate modeling.	Two (2) day refresher training programme on “Climate Change Mitigation: Role of Forestry & sinks with in Clean Development Mechanism Framework” for Indian Forest Service (IFS)	29 January, 2019	EPTRI, Hyd

	officers by the Ministry of Environment Forests and Climate Change (MoEF & CC), Government of India.		
Introduction to water audit softwares: PODIUMSim and AWWA software and EPANET software	Green Skill Development Program (GSDP) - Certificate Course on Water Budgeting and Auditing	31.10.2018	EPTRI
Introduction to water audit softwares: IWMI software and SCADA	do	31.10.2018	EPTRI
Climate Modeling and Projections on Climate Change	CPCB, Sponsored Global Warming, Climate Change and Disaster Management-Future Perspective	26th to 28th November 2018.	EPTRI
Water Distribution System Design using EPANET software along with case studies	A two day Training Programme on Development Trends in Water Supply System for Dy. General Manager's (E) & Manager's (E) from Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB)	04-02-2019.	UGC-Human Resource Development Centre, JNTUH
Regional Simulations of Indian Monsoon & GCM Data and Future Climate Conditions	Short Term Training Programme on: Capacity Building for Interdisciplinary Research on Climate Change	14.11.2018	M. S. Patel Department of Civil Engineering, Gujarat
Indian Technical and Economic Cooperation (ITEC) programme by Ministry of External Affairs on 'Climate Change and Sustainable Development'- International Programme	Climate Change and extreme events, Framework for rainfall extreme projections under climate change & climate modelling	17.12.2018	EPTRI, Govt of Telangana
Water Distribution System Design using EPANET software along with case studies	A two day Training Programme on Development Trends in Water Supply System for Dy. General Manager's (E) & Manager's (E) from Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB)	08.03.2019	UGC-Human Resource Development Centre, JNTUH

Climate change	UGC – Human Resource Development Centre as a Resource Person and address the participants of the 105 th Orientation Course at University of Hyderabad.	06.03.2019	UGC- HRDC
Water Distribution System Design using EPANET software along with case studies	A two day Training Programme on Development Trends in Water Supply System for Dy. General Manager’s (E) & Manager’s (E) from Hyderabad Metropolitan Water Supply & Sewerage Board (HMWSSB)	21.02.2019	UGC-Human Resource Development Centre, JNTUH
Climate change and extreme events – Framework for rainfall extreme Projections under Climate Change – Climate modeling	EPTRI training program under Indian Technical & Economic Cooperation (ITEC) by Ministry of External Affairs, Government of India on on ' Integrated approach to climate change policy development and financing for effective implementation of SDG goals'	20.03.2019	EPTRI
Dr K. SHASHIKANTH, Associate Professor, Civil Engineering delivered a expert talk on Fundamentals of Fluid Mechanics at Guru Nanak Institutions Technical Campus on 03.05.2021.			
Climate Modelling and Future Projections	Indian Technical and Economic Cooperation (ITEC) Programme of the Ministry of External Affairs (MEA), Government of India (GoI), the Environment Protection Training and Research Institute (EPTRI), Hyderabad is conducting two (2) week International online Training Programme on “Climate Change and Sustainable Development” from 24 th January – 04 th February, 2022	31.01.2022	EPTRI

Climate and Climate Change Implications	Dept of Civil Engineering, KG Reddy College of Engg and technology, Moinabad, RR Dist	09.12.2021	KGR CET
Monsoon System: Past, Present and Future	Er.A.P.Ranganatha Swamy 25 th Endowment lecture being organized by Institution of Engineers (India) IEI, TS State centre	27.07.2022	IEI ..Online Platform
Climate Modeling and Future Projections	Indian Technical and Economic Cooperation (ITEC) of the Ministry of External Affairs (MEA), Government of India (GoI). There were 33 participants from 26 countries.	01.02.2023	EPTRI

12) Conferences conducted

1. **Joint Organizing Secretary, HYDRO 2019 International Conference held from 18-20 December, 2019.**
2. **Student Advisor, Two day National Student Technical Symposium- 18th Edition of NIRMAAN- 19 - March, 2019.**
3. **Convener, One day seminar the occasion of World Water day on 22 March, 2018 .**
4. **Convener, 3 day National conference on Advanced Computing Applications in Civil Engineering from April 24-26, 2018.**
5. **Convener for 3 day workshop on Engineering Research Methodology (ERP-2016) 29-31, January, 2016**
6. **Convener for One day workshop on Engineering Graphics using Auto CAD, 9th October, 2015.**
7. **Co- Convener, National Conference on Soft Computing Applications in water resources and Environmental, December 2007, and Osmania University.**
8. **Co-Convener for the 2 day Training program on Urban Storm water Management – Issues and challenges Conducted form 20-21 February 2009.**
9. **Co-Convener for the one day National Seminar on Water and Nature-Needs and Challenges on the occasion of World water Day 22 March 2009.**

13) Books Edited

- Proceeding of the National Conference on Soft Computing Applications in Water resources and Environmental Engineering, (NCSCAWREE) Civil Engineering Department, O U.
- Proceedings of National Conference on Advanced Computing Applications in Civil Engineering held in April, 2018, UCE, OU.
- Proceedings of 62nd Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM 2017) held in Dec 15-18, 2017 in Association with ISTAM.
- Proceedings of 24th Hydro International Conference- 2019 organized in Association with Indian Society for Hydraulics, Pune, held during 18-20, December, 2019

14) PhDs Supervisor

1. **Divya Sankar Surisetty** Topic of Research ‘Effective and Complex Risk Management in Construction Project. Conducted on 14.04.2023 from Lincoln University College, Malaysia.
2. Currently 4 students are enrolled for Doctoral Work.

15) Projects Guided

- i. B.E. Projects Guided: **15**
- ii. ME Dissertations Guided: **15 Completed**
06 On Going

LIST of ME/M.Phil. THESIS GUIDANCE

S.No	Year	Topic of the thesis	Name/ Roll No
1	2011	Selection of Suitable Sites for Water Harvesting Structures in Osmania University Campus, using RS and GIS	D Rama Krishna Sarma
2	2014	Temperature projections for India using Bias correction method	D Satyanarayana 1005-12-746202
3	2016	Simulation Of Indian Summer Monsoon Rainfall Projections For Future Using GCM Output.	P Sukumar 1005-13-741208
4	2017	Temperature Projections of India for 21 st Century using climate models	Rajasekhar Reddy 1005-15-741204
5	2018	Modeling of Extreme Rainfall Projections of Indian monsoon under climate change	Prashanthi M 1005-14-741209
6	2018	Urban storm water management using SWMM	V. Navya Sindhu Roll No: 1005-16-741507
7	2019	Comparative Analysis of Runoff Estimation For Improvements In Drainage Capacities In Hyderabad City	P Anil Kumar 1005-15-741508
8	2019	Evaluation Of Critical Success Factors On Mission Bhagiratha Scheme By Using Faii Method And Friedman's Test With SPSS	K Naresh 1005-17-741605
9	2019	Modeling of Extremes using PoT Approach for 21 st century under climate change	Md. Shahida 1005-15-741210
10	2019	Analysis of critical factors for development of a Smart City	SUNKARA SYAMPRASAD 1005-17-741614
11	2019	Ground water modeling using Visual Modflow	Mr. Suman
12	2020	Assessment of key sustainable performance indicators using AHP and Fuzzy Inference system	William Prakash 100518741611
13	2020	Risk Assessment Of Cost Overrun Using Fuzzy Logic Model	Gullapudi B S Alekhya 100518741605

14	2020	Early Warning of Floods In Krishna River Sub Basin	R.PALLAVI (Roll No: 1005-18-741209)
15	2021	Multi objective calibration for SWAT model using NSGA II- A case study on Musi River	T Anurag 1005-19-741208
16	2022	Thunderstorm prediction using Soft computing techniques (on-Going)	Tharun 1005-20-741208

16) CHAIRMAN OF TECHNICAL SESSIONS – 2

1. Chaired Technical Sessions at National Seminar in Civil Engineering at CVR College of Engineering, Hyderabad conducted on 30 th march, 2017.
2. Acted as Co-Chairman at 4th National Conference on Water, Environment and Society (NCWES – 2017) in a session on Climate Change and Environment held at JNTUH from session 16-18 March, 2017.
3. Chaired technical Session at 2nd International Conference on Emerging Trends in Engineering Organized by UCE OU Alumni Association 28-30, April 2023.

17) Membership in Professional Bodies

LMISTE
LMISRS
LMIWRS
LMISH

Fellow of IE (Member of Institution of Engineers) F- 1283425

18) Short- Term Courses Attended-22

S. No.	Name of the course	Organization	Duration
1	Climate change and Water Management	IIT Bombay	Feb28,-March 4, 2011
2	Turbulent Jets and Plumes: Theory and Applications	IIT Bombay	Jan 14-18, 2013
3	Soft computing techniques in Hydrologic time series modelling	IIT Bombay	Nov 11-15, 2013
4	Sediment transport and River Engineering	IIT Bombay	9-13, December 2013
5	The musts of Fluid Mechanics	IIT Bombay	26-30, May 2014
6	Coastal processes and Modeling	IIT Bombay	19-23, March, 2012
7	Fluid Mechanics through Experiments	IIT Bombay	22-26, December, 2014
8	Hydro climatic modeling and Climate change Impacts Assessment	IIT Bombay	June 30-July 4, 2014
9	Ground water and Surface water management	IIT Bombay	December, 7-11 2015
10	Hydrology of Floods	GB Pant Agriculture & Technology, Pant Nagar, Uttarakhand	8-19, January, 2018.
11	Strategies for Research oriented Teaching	UGC-HRDC- JNTUH	5- 24 , June, 2017 (3 weeks)
12	“Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials”	Indian Institute of Remote Sensing (IIRS),ISRO Dehradun (Online), Govt of India	13-06-2020 to 01.07.2020
13	MATLAB Based Teaching-Learning in Mathematics, Science and Engineering	Department of Electronics , Ram Rao Adik College of Engg, Nerul, Mumbai (Online)	18-22, May, 2020
14	“Maximal Utilization of ICT Tools for Online Teaching-Learning Process”	Department of Applied Science and Humanities, Rajkiya Engineering College, Ambedkar Nagar in Association with J. C. Bose University of Science & Technology, YMCA, Faridabad, Haryana (online)	9-13, May, 2020 (TEQIP-III)

19) Teaching Assignments

Courses taught for Undergraduate Students

Fluid Mechanics –I & II
Hydrology and water management
Fluid Dynamics
C/C++ Programming
Water Resources Engineering
Engineering Mechanics
Hydraulic Engineering
Infrastructure Development
Environmental Studies
Programming for Problem Solving
Engineering Graphics

Courses taught for Postgraduate Students (Specialization: Water Resources Engineering)

Engineering Hydrology
Flood Analysis and Control
Applied Statistics
Applied Hydrology
Disaster Mitigation and Management
Principles of Climate Change
Applied Statistics in WRE

20) Achievements

Received Vice Chancellors appreciation award for the year 2022

Received VC award for excellence in research for the year 2022 on 03.01.2023

My PhD thesis cleared first stage for Excellence in Thesis award based on the recommendations of the examiners.

Instrumental in getting the consultancy work from National Rural Employment Guarantee Scheme Govt of A.P for repair works of minor irrigation Tanks in three districts of A.P (MBNR, Medak, Ranga Reddy) while working at CBIT, the worth of consultancy was Rs. 34 lakhs (2007).

21) PERSONAL PROFILE

Name: Dr K Shashikanth
Father name: Sri. K. Srikanth Rao
Mother's Name: Smt. K Shobha
Place of Birth: Narayanpet, TS.

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HYDERABAD- 500029

Place: **HYDEARABAD**
Date: 10.08.2023