

Name of Faculty RAMANARAYAN SANKRITI  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 11 – 07 -2019  
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#### Education Qualifications

	Name of the Degree	Class
Ph. D	Remote-Sensing & Water Resources	Pursuing
PG	M. Tech. (RS & GIS)	First
UG	B. Tech. (Civil)	First

#### Work Experience

Teaching	07 Years post M.tech;13 years Post PG Diploma in Advanced Construction Management.
Research	4 years
Industry	3 years
Others	--

Area of Specialization Remote-Sensing & Water Resources

Professional Memberships IEI Life Membership No. AM157705-3;Life Member of Indian Society of Technical Education-LM 105147.

Responsibilities held at Institution Level --

Responsibilities held at Department Level  
 1. Web & Branding Committee Co-ordinator,CED  
 2. Campus Radio Co-ordinator,CED

Research Guidance --

Courses Handled at Under Graduate / Post Graduate Level. Water Resources Engineering-I, Water Resources Engineering-II, Fluid Mechanics Lab, Hydraulics and Hydraulic Machinery lab

No. of Papers Published National Journals – 1 International Journals –12

National Conference – 1 International Conference – 4

Projects Carried out 2 projects at B. Tech. Level

Patents  
 1. Remote Monitoring and Control of Electrical Machines in manufacturing industries using Wireless sensor network, Indian Patent application number – 202041022860 (Date of filing : 01-06-2020,Published : 12-06-2020).  
 2. Patent Number:2021104024,Topic-An intelligent system for weather monitoring and natural disasters prevention using IOT AND AI,Granted on 25 August 2021  
 3. Patent Number:2021100045 on Soil health monitoring using drones and Augmented reality in agricultural Regions ,granted on 10 March 2021  
 4. Patent Application Number:202041029727,Published, on "A novel method for emotion detection of child autism spectrum disorder(ASM) using machine learning, Date:31/07/2020

Technology Transfer --

Invited Speaker  
 1. Delivered a lecture on "Introduction of Arc GIS software" for B.Tech prefinal year at Aurora's Scientific, Technological & Research Academy, Bandlaguda, Hyderabad during 18<sup>th</sup>-19<sup>th</sup> November 2019.

No. of Books/Chapter Published with details  
 1. Ramanarayan Sankriti, Subbarayan Saravanan, Manjunath Aluru, Leelambar Singh, Jesudasan Jacinth Jennifer, Devanantham Abijith, Chapter 16 - Identification of drought intensity and development of drought resilience in the Rayalaseema region of Andhra Pradesh, India, Editor(s): Indrajit Pal, Rajib Shaw, Riyanti Djalante, Sangam Shrestha, Disaster Resilience and

Sustainability, Elsevier, 2021, Pages 357-377, ISBN 9780323851954

<https://doi.org/10.1016/B978-0-323-85195-4.00017>

2. Sankriti, R., Subbarayan, S., Aluru, M., Singh, L., J, J.J., Abijith, D. (2022). Assessment of Agricultural Drought Vulnerability Using Remote Sensing and GIS: A Case Study of Lower Cauvery Basin, Tamil Nadu, India. In: Jha, R., Singh, V.P., Singh, V., Roy, L.B., Thendiyath, R. (eds) Hydrological Modeling. Water Science and Technology Library, vol 109. Springer, Cham.  
[https://doi.org/10.1007/978-3-030-81358-1\\_39](https://doi.org/10.1007/978-3-030-81358-1_39)
3. Singh, L., Subbarayan, S., Jacinth Jennifer, J., Abhijith, D., Sankriti, R. (2022). Assessment of Impact of Spatial Distribution of Rainfall on Streamflow Modelling Using Arcswat in the Noyyal River Catchment Tamil Nadu, India. In: Jha, R., Singh, V.P., Singh, V., Roy, L.B., Thendiyath, R. (eds) Hydrological Modeling. Water Science and Technology Library, vol 109. Springer, Cham.  
[https://doi.org/10.1007/978-3-030-81358-1\\_40](https://doi.org/10.1007/978-3-030-81358-1_40)
4. Devanatham Abijith, Subbarayan Saravanan, Jesudasan Jacinth Jennifer, K.S.S. Parthasarathy, Leelambar Singh, Ramanarayan Sankriti, Chapter 25 - Assessing the impact of damage and government response toward the cyclone Gaja in Tamil Nadu, India, Editor(s): Indrajit Pal, Rajib Shaw, Riyanti Djalante, Sangam Shrestha, Disaster Resilience and Sustainability, Elsevier, 2021, Pages 577-590, ISBN 9780323851954.  
<https://doi.org/10.1016/B978-0-323-85195-4.00016-0>
1. Faculty Co-ordinator for Webinar on "REVIT Structures" organized by Department of Civil Engineering, CBIT, Hyderabad, India on July 11, 2020.
2. One-week Online Faculty Development Program on "Recent Trends and Research scope in Civil Engineering", organized by Department of Civil Engineering, Chaitanya Bharati Institute of Technology, Hyderabad, India from July 6 to July 10, 2020.
3. Participated in the One Week online Refresher Course on "BHARATEEYA CHAITANYAM", organized by the GEERVANA BHARATHI of CHAITANYA SAMSKRUTHI from 29-06-2020 to 05-07-2020.
4. Successfully attended webinar on First Leadership Talk with Shri Dipendra Manocha, (Motivational Speaker) held on 27th June, 2020 by MHRD's Innovation Cell.
5. TEQIP-3 sponsored One-Week Online Faculty Development Program on "Advances in Modelling of Hydrological Extreme Events" (AMHEE-2020) organized by the Department of Civil Engineering, B.M.S. College of Engineering, Bengaluru, held from 22nd to 26th June 2020.
6. Successfully Completed "Programming for Everybody (Getting Started with Python)" an online non-credit course authorized by University of Michigan offered through Coursera on 19-06-2020.
7. Three-day Online Faculty Development Program on "Research Challenges in Civil Engineering", organized by Department of Civil Engineering, Anurag University, Hyderabad, India from 12th to 14th June 2020.
8. Successfully attended webinar on First Leadership Talk with Shri R Subrahmanyam, IAS (Secretary Ministry of Social Justice & Empowerment) held on 13th June, 2020, by MHRD's Innovation Cell.
9. Three days International Online Faculty Development Program on "Recent Advances in Civil Engineering - RACE - 2020" from 10th - 12th June - 2020 Organized by Department of Civil Engineering, Vidya Jyothi Institute of Technology(A).
10. A one-week online FDP on "Outcome based education and NBA accreditation process", CBIT, 28-05-2020 to 01-06-2020.
11. Participated in the IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi to promote Innovation, IPR, Entrepreneurship, and Start-ups among HEIs from 28<sup>th</sup> April to 22<sup>nd</sup> May 2020.
12. Successfully attended Webinar on First Leadership Talk with Dr. Pramod Chaudhari, Founder, Chairman, Praj Industries Limited and Dr. Abhay Jere, Chief Innovation Officer MHRD Innovation

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (Attended and/or Organized).

Cell, Saturday, 16th May 2020 at 01.00 PM by MHRD's Innovation Cell

13. Successfully attended the India First Leadership Talk webinar with Prof D. P. Singh, Chairman UGC Broadcasted on 9th May 2020 by MHRD's Innovation Cell
14. Successfully completed the "Higher Surveying" , "Natural Hazards Part I" and "MATLAB programming for Numerical Computation" (NPTEL Online Certification Courses).

Details of Journal Publications/  
Conferences (National and  
International)

**International Journal**

1. Sathiyamurthi, S., Saravanan, S., Sankriti, R., Aluru, M., Sivaranjani, S., & Srivel, R. (2022). Integrated GIS and AHP techniques for land suitability assessment of cotton crop in Perambalur District, South India. *International Journal of System Assurance Engineering and Management*, 1-12.
2. Sankriti, R., Subbarayan, S., Aluru, M., Reddy, N., & Ayyakkannu, S. (2021). Morphometric analysis and prioritization of sub-watersheds of Himayatsagar catchment, Ranga Reddy District, Telangana, India using remote sensing and GIS techniques. *International Journal of System Assurance Engineering and Management*, 1-13.
3. Sankriti, R. (2021). Detection of normal and epileptic EEG signals using by lifting based HAAR wavelet transform and artificial neural network. *International Journal of System Assurance Engineering and Management*, 1-7.
4. Latha, C. J., Sankriti, R., Arvind, S., Mohammad, A. B., & Jenabhar, M. M. (2021). Neural Network Based Prolong Structural Building Monitoring Management System Using Hybrid Wireless Sensor Network. *NVEO-NATURAL VOLATILES & ESSENTIAL OILS Journal* NVEO, 5698-5711.
5. David, A. (2020). Impact of Dyke on Hydrological and Hydrogeochemical Conditions in Nadergul Micro Watershed of Ranga Reddy Distri... *Solid State Technology*, 63(2s).
6. Sankriti, R., Kodali, M. Y., Bhagyasri, M. P., & Nalluri, M. S. (2020). Cloud Computing based COVID-19 Patient Health Monitoring System to Create Safety Environment. *Solid State Technology*, 3026-3037.
7. Dr.Pathan Rahira, Dr.M.Saravanan, Ramanarayan Sankriti , R.Srivel. (2020). Experimental Investigation and Mathematical Model Strategy to control Air Pollution Level in our Environment by using Nanotechnology . *International Journal of Advanced Science and Technology*, 29(7), 3479-3491.
8. Ramanarayan Sankriti, Esaiyarasi G , R.Chandrasekaran, & R.Srivel.(2020b), IOT Based Smoke Test and Vehicle Pollution Control Monitoring Using Nano Sensors, *Test Engineering & Management*, The Mattingley Publishing Co., Inc. ISSN, 0193-4120,13701-13706.
9. Latha, C. J., Sankriti, R., David, A., & Srivel, R. (2020a). IoT Based Water Purification Process using Ultrasonic Aquatic Sound Waves, *Test Engineering & Management*, The Mattingley Publishing Co., Inc. ISSN, 0193-4120,11115-11122
10. Srivel, R., Sankriti, R., & Nandha Kumar, P., Transforming Lead-Free Fuel: Filter less Filtration Process by using Ultrasonic Waves. (2019c). *International Journal of Innovative Technology and Exploring Engineering Special Issue*, 8(11S2), 319–322. doi: 10.35940/ijitee.k1051.09811s219
11. Latha, C.J., Sankriti, R., & Chandra Sekhar, M., Smart Automation Technique to Collect Dry and Wet Waste using IOT Module: to Achieve our 'SBM' Mission. (2019b). *International Journal of Innovative Technology and Exploring Engineering Special Issue*, 8(11S2), 309–314. doi: 10.35940/ijitee.k1049.09811s219
12. David, A., Thangavel, Y. D., & Sankriti, R. (2019a) Recover, Recycle and Reuse: An Efficient Way to Reduce the Waste, *International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*, ISSN (P): 2249-6890; ISSN (E): 2249-8001, 9(3), 31-42.
13. Hydro-Geochemistry of Pallicheruvu Lake S.Ramanarayan, A.Manjunath, K.V.R.Satya Sai, Jenifa Latha, Sharan Kumar, *International Journal of Engineering Research & Technology (IJERT)*,ISSN: 2278-0181,Volume 6, Issue 02,Special Issue - April 2018.

**National Journal**

14. Seismic Analysis and Design of Residential Building (G+4) Using STAAD-Pro ,S.Ramanarayan, A.Manjunath, K V R Satya Sai, S Lokeswari, *Indian Journal of Scientific Research* ISSN: 2250-0138,17(2): 440 - 448, 2018.

**International Conferences:**

15. Groundwater Vulnerability Assessment using Water Quality Index and GIS in Hyderabad, India. D.Soundarrajan, Ramanarayan Sankriti, Subbarayan Saravanan, A.Manjunath, *International conference on Industry 4.0 and Advancements in Civil Engineering (i4ACE'19)*,21 - 23 March 2019, ISBN 978-93-87862-53-1,Paper No: 1101.
16. Evaluation of Water Quality Index of Pallicheruvu Surroundings, S.Ramanarayan, A. Manjunath,K.V.R.SatyaSai,JenifaLatha,A.Kanagalakshmi,*International Conference for Phoenixes on*

Emerging Current Trends in Engineering and Management (PECTEAM 2018),Advances in Engineering Research (AER), volume 142,Published by Atlantis Press.

17. Application on Climatic Morpho-Genesis, Ground Water Assessment, Development and Management of Lower Krishna River in Andhra Pradesh, K.V.R.Satya Sai, A. Manjunath, S.Krishnaiah, S.Ramanarayan,1<sup>st</sup> International Conference on Recent Innovations in Engineering and Technology, ASTRA, Hyderabad, India, December,2016.

#### **National Conferences**

18. A Review paper on use of Bio-enzyme, Rohith SR Mane ,Ramanarayan S,R Srinivasa Kumar, National conference on Sustainable Practices and Advances in Civil Engineering ,KITS Warangal, India,September 2017.

