

CURRICULUM VITAE OF DR.PEDDADA.JAGADEESWARA RAO

1. Name of the Teacher : PEDDADA.JAGADEESWARA RAO
(CAPITAL letters)
2. Designation & address : Professor and Chairman, BOS,
Dept. of Geo-Engineering &
Centre for Remote Sensing, Andhra
University, College of Engineering (A)
Visakhapatnam-530 003
3. Details of qualifying service : 33 years
already rendered in the Univ.
4. Particulars of previous Job : 1) Hydrogeologist, CGWB
Experience (2 Years)
2) Former Director, RGUKT, Srikakulam
(3 Years on Deputation)
5. Qualifications :

Examination passed	Name of the University	Subject of examination & Specialisation
M.Sc.	A.U	Geology
Post M.Sc. (Tech.)	A.U	Hydrogeology
Post Graduate Dip in RS&GIS	CSSTEAP(UNO)	Remote Sensing &GIS
M.Tech (RS & GIS)	A.U	Remote Sensing &GIS
Certificate course on Disaster Management	CSSTEAP(UNO)	Disaster Management
MDP (ALP)	IIM-Khozikhode	Management Development Programme
Ph.D	A.U	Watershed Management with reference to Groundwater

6. Research work done since first : 1. UGC minor research project completed
Research degree 2. NRSA-RNDWTM-Completed
3. DSIR-APCOST-Technopreneur –Completed

Projects handled

1	Models to study the impact of sea level rise on coastal environment of India (with P.Jagadeeswara Rao as Co-PIInvestigator)	Space Applications Centre/ISRO (Rs. 30.05)	2010-2013
2	Storm Surges and Tsunami Vulnerability (Andhra Pradesh) (with P. Jagadeeswara Rao as Co-PIInvestigator)	Space Applications Centre/ISRO	2013-2015
3	Geospatial study on Coastal Erosion and Mangrove degradation in the Krishna- Godavari Delta Region, Andhra Pradesh, India-	DST-NRDMS: Rs.17.82 Lakhs (Completed).	2017-2019
4	A Study on Coastal Dynamics and Shoreline Management along Central Andhra Coast (In collaboration with Centre for Bay of Bengal)	MoEF (ICMAM) .52 Lakhs (Completed).	Oct 2018 - Oct, 2021
5	Data collection and facilitation for the activities of water for sustainable development (WSD) project in India (International)	United Nations University-Institute for the advanced study of Sustainability, Tokyo, Japan (Completed) 14600 USD	Aug ,2020 to Dec, 2020)

7. Consultancy work : 1.Consultant in groundwater for Government & Private sectors.
2. Bed rock & foundation rock estimation for Civil structures for Govt.& Private sectors.
3. i)Jindal Alumina Refinery (S.Kota) 3.4 Lakhs,
ii) Ramky Pharma, 2 Lakhs
iii) CDM –Geospatial technology-2 Lakhs
iv) Water leakage problem in Tunnel in Vizag Steel Plant-1.5 Lakhs
v)
- 8.Advisory member : Acted as an advisory member on City development strategy on Environment to Visakhapatnam Municipal Corporation.
9. Resource person : 1.Indian Institute of Remote Sensing, Dehradun
2.UGC –Academic Staff College, AU
3.AP Forest Department-Visakhapatnam
4.NIRD&PR, Hyderabad
5.APHRI, Bapatla

6. Disaster Management Course-Armed Forces-AU
10. Life Member : Indian Geophysical Union-5-4-2003
 Association of Hydrologists of India-AHI-LM-309-601
 Indian Society of Geomatics-L-1396
 Indian Society of Remote Sensing-L-4763
 Indian Society for Technical Education LM121384
 The Indian Science Congress Association-L35192
11. Fellow Member : Member-The Institution of Engineers (India)-M-166142-0
12. Executive member : Indian Society of Geomatics, Visakhapatnam Chapter
13. Chairman : Indian Society of Remote Sensing-Visakhapatnam Chapter
14. Secretary : OSGeo-India Andhra Pradesh Chapter
15. International Charter Member : OSGeoInternational
16. Countries visited : 1) USA, (10-13 October, 2012)
 2) Japan, Kyoto (4-9 August, 2013)
 3) Krakow, Poland (18-22 August, 2014)
 4) Beijing, China (21-25 August, 2016)
 5) Colombo, Srilanka (2-4 December, 2018)
17. Training in Management : Ten days training on Management Development Programme at Indian Institute of Management-K (3-13 June, 2013)
18. International Member : IGU Disaster and Risk (2013-2016) & 2023-2026
19. Fellow : Universal Association of Civil Structural, Environmental Engineer
20. Organising Committee Member : 4th International Conference on GIS & Remote Sensing, September 27-28, 2018-Berlin, Germany
<https://gis-remotesensing.conferenceseries.com/europe/organizing-committee.php>
21. Governing Body member : University representative to MR College of Pharmacy, Vizianagaram.(2019-2021)
22. Board of Studies : 1) Petroleum Exploration Production (PG)-(2020-2023).
 2) Member Board of Studies, Delta Studies Institute, Andhra University (2023-2026).

21. Administrative Experience

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- 1) 3 years as Student Affairs Coordinator, AUCE from 17-10-2008 to 2011
- 2) Head of the Dept. from 8-02-2012 to 27-02-2015
- 3) Disciplinary committee AUCE from 3-3-2017 to March, 2020
- 4) Innovation, Incubation, Startups, Patents, Online courses and Entrepreneurship activities committee from 3-3-2017.
- 5) Board of Studies from 6-4-2017 to 5-4-2020.
- 6) Governing body member of the University representative to MR College of Pharmacy From 2019 to 2023.
- 7) Governing Council Member, RGUKT from November 2020 to November, 2023.
- 8) **Director, Rajiv Gandhi University of Knowledge Technologies, (IIIT), Srikakulam Campus, November 2020 to November, 2023.**

22. Books Published /Chapters contributed

1. "Quantitative geomorphology of the Champavathi Watershed"
"Ecology & Conservation of Lakes, Reservoirs & Rivers". ABD Publishers, Jaipur, Rajasthan.
2. Engineering Geology-SDE, Andhra University
3. Contributed chapters for PGC-GARD in 1. Remote Sensing 2. GIS for Geospatial technology for Rural Development-NIRD&PR, Hyderabad.
4. Silt Deposition in Meghadrigedda Reservoir, India-A Spatial Approach-LA Publisher, **ISBN:978-3-659-57573-0**
5. Machine Learning in Text classification in Big Data Analytics- LA Publisher, **ISBN: 978-3-659-94687-5.**
6. Proceedings of International Conference on Remote Sensing for Disaster management-Springer Series in Geomechanics and Geoengineering-2018, 873pp **ISSN 1866-8755.**
7. Internet of things for wildfire disaster, Taylor and Francis, ISBN-978-0-429-34071-0 (Book Chapter).
7. Investigation of Land Use and Land cover changes and its relationship with land surface temperature and ground water temperature over Bangalore city (Springer Book Chapter) 2022.

23. Conducted 3K Run in connection on International Disaster Risk Reduction Day on 13-10-2017.

24. Life Member: Indian Red Cross Society

25. ISRS Best Chapter Award- Received at SAC on 5-12-2018

26. Societal Responsibilities and lectures delivered

1. Delivered lecture on how to identify Ganja cultivation-A Remote Sensing approach at Enforcement of NDPS Act at Police Commissionerate for District SPs' and DIGs' of police on 21 June, 2017.
 2. Conducted Blood Donation Camp on International Disaster Risk Reduction Day on 13-10-2017.
 3. Attended as a Chief Guest at Fresher's day function, Bhashyam school at Gopalapatnam on 6 July, 2017 at 4 PM.
 4. Delivered lecture on Sustainable water resources at Rotary Club, Ramnagar, Visakhapatnam on 30-3-2018.
27. 1. One week online training programme: Outcome Based Education (OBE) NBA accreditation Conducted by BVICAM, New-Delhi, from 27-31 July, 2020. (A+ grade).
- 2.FDP –conducted by APSCHE, E content Development from 8-9-2020 to 12-9-2020.

28. List of publications

1. Jagadeeswara Rao, P. and Jagannadha Rao, M. 2000. A study on the influence of quantitative geomorphology of the Champavathi Watershed, Andhra Pradesh, and its influence on ground water occurrence. Published as one of the selected articles in the text book “*Ecology & Conservation of Lakes, Reservoirs & Rivers*”. ABD Publishers, Jaipur, Rajasthan.
2. Jagadeeswara Rao, P.Jhansi, S. and Jagannadha Rao, M. 2001. A study on morphometric analysis watershed in Visakhapatnam District, Andhra Pradesh, Jour. Landscape Systems, Vol.XXIV (2), 18-26.
3. Jagadeeswara Rao, P Suryaprakasa Rao, B, Jagannadha Rao, M. and P., Harikrishna. 2003. Geo-Electrical data analysis to demarcate ground water pockets and recharge zones in Champavathi River Basin, Vizianagaram District, Andhra Pradesh. Jour of Ind Geophysics Union, Vol7 (2), 105-113.
4. Jagadeeswara Rao, P Suryaprakasa Rao, B.and P., Harikrishna, P. 2004. An intergrated study on ground water resource of Pedda Gedda watershed. Jour. Of the Indian Soc. Of Remote Sensing, Vol.32 (3), 307-311.
5. Jagadeeswara Rao, P, 2004. A case study of the scenario of water resources in Visakhapatnam urban area with reference to Eastern Ghats. EPTRI-ENVIS Newsletter, 10(2): 5-7.
6. Jagadeeswara Rao, P, Suryaprakasa Rao, B.and P., Harikrishna. 2006. Studies on silt deposition in Gambhiram Reservoir – A Remote Sensing Approach. Jour of Ind. Geophysics Union, Vol.10 (4), 285-292.

7. Jagadeeswara Rao, P, Brinda, V, B Suryaprakasa Rao, and P. Harikrishna. 2007. Selection of landfill sites for solid waste management in and around Visakhapatnam city-A GIS Approach. Asian Jour. Of Geoinformatics, Vol.7 (3) 35-41.
8. Jagadeeswara Rao,P, Venkateswara Rao, V, Someswara Rao, P, Satyanarayana, P.V.V and Israel, I, 2007. Urban Hydrology of Visakhapatnam Municipal Corporation Jurisdiction with special reference to water marketing, Jour. Of Applied Hydrology, Vol.XX, No.1&2, 44-55.
9. Jagadeeswara Rao,P, Srivastav S.K., Satyanarayana, P.V.V. and Harikrishna, P. 2009. Selection of groundwater potential zones in and around Madhurawada dome, Visakhapatnam district- a GIS approach. Jour of Ind Geophysics Union, 13(4), 191-200.
10. Jagadeeswara Rao, P, Satyanarayana, P.V.V, Venkateswara Rao, T, Harikrishna, P, 2010. Selection of groundwater potential zones in and around Madhurawada dome, Visakhapatnam district- a GIS approach. Jour. Of Eastern Geog.Vol XVI (1):15-18.
11. Padmaja Rani, P and Jagadeeswara Rao, P, 2010. An Assessment of HIV/AIDS in adolescents – A study in Visakhapatnam City, Andhra Pradesh, India. Jour. Of Eastern Geog.Vol XVI (1):95-98.
12. Prakasa Rao, B.S, Pernaidu, P, Amminedu, E, Rao, T.V , Satyakumar, M, Sathi Devi, K, Jagadeeswara Rao,P, Srinivas, N. and Bhaskara Rao, N, 2011. Run-off and flood estimation in Krishna River Delta using Remote Sensing and & GIS. Jour. Of Indian Geophys. Union, Vol.15(2), 101-112.
13. Jagadeeswara Rao, P, Sk.Razia Sulthana, Srivastava, S.K, Samyuktha, N and Venugopalanaidu, Ch, 2011. Role of drainage characteristics on silt deposition in Meghadrigedda reservoir, Visakhapatnam-A spatial Technology Approach, Int.Jour of Earth Science and Engineering, Vol.4, No.8, 46-55.
14. Jagadeeswara Rao, P. 2012. Estimation of Groundwater Resources in the environs of Madhurawada Dome, Visakhapatnam District, India: A Geospatial Technology Approach, Papers of the Applied Geography Conference, USA, Vol. 35, 492-500.
15. Ashnafi Tolessa, G and Jagadeeswara Rao, P. 2013. Watershed development prioritization of Tandava River Basin, Andhra Pradesh, India-GIS Approach, Int. Jour. Of Engineering and Science Invention, 2(2): 2319-6726.
16. Ashnafi Tolessa, G and Jagadeeswara Rao, P. 2013. A geospatial based study on mapping of flood inundation zones in Tandava River Basin, Andhra Pradesh, Int. Jour of Remote Sensing & Geosciences, 2(2): 34-37.

17. Ashenafi Tolessa, G, and Jagadeeswara Rao, P. 2013. Watershed Development Prioritization of Tandava River Basin, Andhra Pradesh, India- A GIS Approach. *Int. Jour of Engg. Sci and Invention*, 2(1):12-20.
18. Ashenafi Tolessa, G, and Jagadeeswara Rao, P. 2013. Exploring groundwater occurrence in Tandava River Basin, Andhra Pradesh, India, *Int. Jour. Of Civil, Envi. & Infra Struc. Engg. Research and Development*, 3(2):213-222.
19. Jagadeeswara Rao,P, Sumiko KUBO, T.Venkateswara Rao and PVV Satyanarayana,. 2013. An Integrated Study on Sustainable Development of Groundwater Resources in Coastal Environs, Visakhapatnam District, Andhra Watershed Approach, *Journal of Applied Geology and Geophysics*, 1(1):36-43.
20. N.Victor Babu, P. Jagadeeswara Rao, I.V.R.K.V. Prasad. 2013. Impact of Municipal Solid Waste on Groundwater in the Environs of Greater Visakhapatnam Municipal Corporation Area, Andhra Pradesh, India. *Int. Journal of Engineering Science Invention*, 2(3): 28-32.
21. Gudikandhula Narasimha Rao and P. Jagdeeswar Rao, 2013. A Clustering Analysis for Heart Failure Alert System Using RFID and GPS. *ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of CSI - Volume I, Advances in Intelligent Systems and Computing*, 729-737.-Springer Proceedings
22. Rajesh Duvvuru, Jagadeeswara Rao, P and Sunil Kumar Singh, 2013.Improvizing Security levels in WLAN via NovelBSPS, *ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of CSI - Volume I, Advances in Intelligent Systems and Computing*, 738-743. Springer Proceedings
23. Rajesh Duvvuru, P. Jagadeeswara Rao, Sunil Kumar Singh and Ankita Sinha, 2013. Enhanced Security levels of BSPS in WLAN", *International Journal of Computer Applications*, 84 (2):33-39.
24. Rajesh Duvvuru, P. Jagdeeswar Rao, Sunil Kumar Singh,Rajiv R. Suman, Shiva Nand Singh, and Pradeep Mahato,2013. *ICT and Critical Infrastructure: Proceedings of the 48th Annual Convention of CSI - Volume I, Advances in Intelligent Systems and Computing*, 535-542. Springer Proceedings
25. Jagadeeswara Rao, Sivasankar, T, and Padmaja Rani, P. 2015. A spatio-temporal scenario of HIV/AIDS in Visakhapatanam District-A medical GIS approach- *Geoinformatics applications in rural development*, 621-629.
26. Rajesh Duvvuru, P. Jagadeeswara Rao, Gudikandhula Narasimha Rao, V.Lasya Padmaja, Y.L.N Swamy 2015 " Multi-level Chaos based Encryption Mechanism for Secure High Security Zones Remote Sensing Images of India", *International Journal of Applied Engineering Research (IJAER)*, 10(3):8059-8072.

27. Ramprasad Naik, D, Applu Raju, N, Jagadeeswara Rao, P. and T.Chandrasekhar Rao. 2015. Land use/cover mapping of Paderu Mandal of Visakhapatnam District, Andhra Pradesh using Geospatial Techniques, *International Journal of Remote Sensing and Geoscience*, 4(6): 23-28.
28. Kuntal Ganguly, Rajiv Kumar, Mruthyunjaya Reddy, Jagadeeswara Rao,P Manoj Raj Saxena and Ravi Shankar, G. 2016. Optimisation of spatial statistical approaches to identify land use/land cover change hot spots of Pune region of Maharashtra using remote sensing and GIS techniques, *Geocarta International*, 1-26.
29. Rao, GudikandhulaNarasimha, Jagadeeswara Rao,P, Rajesh Duvvuru, Sridhar Bendalam, and RobaGemechu.2016. An enhanced real-time forest fire assessment algorithm based on video by using texture analysis." **Elsevier, *Perspectives in Science*** 8: 618-620.
30. Rao, GudikandhulaNarasimha, Jagadeeswara Rao,P. and Rajesh Duvvuru 2016. A Drone Remote Sensing for Virtual Reality Simulation System for Forest Fires: Semantic Neural Network Approach. **Journal of IOP Conference Series: *Materials Science and Engineering***, 149 (1) 012011.
31. Rao, GudikandhulaNarasimha, PeddadaJagadeeswaraRao, Rajesh Duvvuru, Sridhar Bendalam, and Roba Gemechu. "Fire detection in Kambalakonda Reserved Forest, Visakhapatnam, Andhra Pradesh, India. 2016. An Internet of Things Approach". **Elsevier, *International Journal of Materials Today Proceedings***,2214-7853.
32. Vikrant Mahendran, Jagadeeswara Rao, P. and Bera, A.K. 2017. Vulnerability of Different Geomorphic units to Deserts in Parts of Western Rajasthan-A Study Based on Remote Sensing and GIS, *Jour. of Remote Sensing and GIS*, 6 (3):1-7..
33. Roba Gemechu, Jagadeeswara Rao,P., Sridhar, B. and Narasimha Rao, G. 2017. Accuracy Assessment of Satellite positioning data case of Adama City, Ethiopia, *Global Jour. for Research Analysis*, 5(3):173-175.ISSN 2277-8160.
34. Ramprasad Naik, D, Applu Raju, N, and Jagadeeswara Rao. 2018. Assessment of soil fertility status in Paderu Mandal, Visakhapatnam district of Andhra Pradesh through Geospatial techniques, *The Egyptian Journal of Remote Sensing and space science*.
35. Fire detection in Kambalakonda Reserved Forest, Visakhapatnam, Andhra Pradesh, India: An Internet of Things Approach,2018. *Int Jour of Materials Today Proceedings*, 5: 1162-1168.
36. B. Sridhar, P.Jagadeeswara Rao, Neela Victor Babu, Aditya Allamraju, A Geo-Spatial approach to the Land Use/Land Cover mapping of the centre part of

Srikakulam district, Andhra Pradesh, India, International Journal of Management, Technology And Engineering, Volume 8, Issue XII, Pages:2391-2401, December, 2018, ISSN NO : 2249-7455 (UGC APPROVED JOURNAL SI.No: 45550).

37. B.Sridhar, P. Jagadeeswara Rao, Aditya Allamraju (2018). Geomorphological Mapping Through Geospatial Technologies In the District of Visakhapatnam, Andhra Pradesh, India. International Journal of Computer Sciences and Engineering,6 (9), , E-ISSN: 2347-2693 page no.29-35.
38. GudikandhulaNarasimhaRao, P. JagadeeswaraRao, et al, “A Spatial Clustering Approach for Kambalakonda Reserved Forest Fires,Visakhapatnam, India”, ISRS - ISG National Symposium on Recent Advances in Remote Sensing and GIS with SpecialEmphasis on Mountain Ecosystems December 7 - 9, 2018, Dehradun, India.
39. Ch.Anusha, DadiSanyasi Naidu, P.JagadeeswaraRao“Identification of groundwater potential zones in Greater Visakhapatnam Municipal Corporation, India – A geospatial Approach”, Geo-Informatics Applications in Natural Resource Management, Professional Books Publisher,2018, ISBN: 978-93-85506-06-2.
40. P.JagadeeswaraRao, DadiSanyasi Naidu, P.KesavaRao “Groundwater configuration in upper catchment of MeghadrigeddaReservior, Visakhapatnam District, Andhra Pradesh”, Geo-Informatics Applications in Natural Resource Management, Professional Books Publisher,2018, ISBN: 978-93-85506-06-2.
41. RobaGemechu and PeddadaJagadeeswaraRao “Improvement of spatial reference system of Adama City, Ethiopia – A Geospatial Approach”, Geo-Informatics Applications in Natural Resource Management, Professional Books Publisher,2016, ISBN: 978-93-85506-06-2.
42. GudikandhulaNarasimhaRao, P. JagadeeswaraRao, Rajesh Duvvuru, Sridhar Bendalam, RobaGemechu, DadiSanyasi Naidu and Kondapalli Beulah, “Geo spatial study on fire risk assessment in Kambalakonda Reserved Forest, Visakhapatnam, India: A Clustering Approach” Springer Series in Geomechanics and Geoengineering, 2018, ISBN: 978-3-319-77275-2.
43. Rajesh Duvvuru , P. JagadeeswaraRao , GudikandhulaNarasimhaRao , Bendalam Sridhar , SuribabuBoyidi , DadiSanyasi Naidu, “Intelligent Object Tracking in River Floods, Andhra Pradesh, India using MOTSC Approach”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
44. Rajesh Duvvuru, P. JagadeeswaraRao, GudikandhulaNarasimhaRao, “Security Issues in Geo-Spatial Big DataAnalytics with Special Reference to Disaster

- Management”, Springer Series in Geomechanics and Geoengineering, 2018, ISBN: 978-3-319-77275-2.
45. P.JagadeeswaraRao, Rajesh Duvvuru, GudikandhulaNarasimhaRao, “Identification Of Landslide Hazard Zones In Greater Visakhapatnam Municipal Corporation, Andhra Pradesh, India - A Geospatial Approach”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 46. G. Sravanthi, K. Mruthyunjaya Reddy, G. S. Pujarand P. JagadeeswaraRao “Dynamic Changes of Plantations in the SelectedWatershed Project Areas of Andhra Pradesh UsingBhuvan Geo-Information”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 47. KajaDivya, K. Mruthujaya Reddy, G. S. Pujar and P. JagadeeswaraRao “Assessing the Spatial Patterns of Geotagged MGNREGA Assets on Bhuvan Using GIS Based Analysis” , Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 48. RamprasadNaikDesavathu and JagadeeswaraRaoPeddada “Soil Erosion Assessment of Hilly Terrain of PaderuUsing USLE and GIS”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 49. A. Kavya, A. Ganga Bhavani, P. JagadeeswaraRaoand V. BalaChandrudu “Impact of Land Use/Land Cover and Mangrove Degradation on Coastal Erosion in Godavari Delta Region, Andhra Pradesh—A Geospatial Approach” , Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 50. KuntalGanguly, P. JagadeeswaraRao, K. Mruthyunjaya Reddyand Bendalam Sridhar “A Geospatial Approach to Assess the Liquefaction Vulnerabilityof Kutch District, Gujarat—A Case Study”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 51. AbhishekArepalli, S. SrinivasaRao and P. JagadeeshwaraRao “A Spatial Disaster Management Framework for SmartCities—A Case Study of Amaravati City—Flood Management”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 52. B. Sridhar, P. JagadeeswaraRao, GudikandhulaNarasimhaRao,Rajesh Duvvuru, Ch. Anusha, D. Sanyasi Naidu, E. Srinivas,T. Sridevi, M. Madhuri and Y. Padmini “Identification of Landslide Hazard Zones Along the BheemiliBeach Road, Visakhapatnam District, A.P.”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 53. Ch. Anusha, P. JagadeeswaraRao, Y. Padmini and B. Sridhar “Geospatial Study on Landslide Vulnerability Mapping in the Environs of ArakuValley, Visakhapatnam

- District, Andhra Pradesh”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
54. Y. Padmini, P. JagadeeswaraRao and Ch. Anusha “Assessment of Coastal Erosion Along the Srikakulam District, Andhra Pradesh State Using Satellite Data of 1990–2000 and 2000–2016 Time Frames”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 55. T. Sridevi, P. JagadeeswaraRao, B. Suribabu, P. Madhu Chandra, B. Sridhar and M. Madhuri “A Geospatial Study on Emergency Response Management System to Combat Fire Accidents—A Case Study of Chennai, Tamil Nadu”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 56. Chukka SrinivasaRao and P. JagadeeswaraRao “Integrated Assessment of Climate Change Impacts on Maize Crop in North Coastal Region of Andhra Pradesh, India”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 57. DadiSanyasi Naidu and P. JagadeeswaraRao “Study on Sustainable Management of Groundwater Resources in Greater Visakhapatnam Municipal Corporation, Visakhapatnam District, India—A Hydro Informatics Approach”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 58. Neela Victor Babu, P. JagadeeswaraRao, SuribabuBoyidiand Sridhar Bendalam “A Geospatial Study on Visakhapatnam Smart City Based on Hydrogeochemistry Analysis”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 59. MadhuriMulpuru, P. JagadeeswaraRao and T. Sridevi” A Case Study on Soil Erosion and Risk Assessment in Thandava Reservoir Catchment, Visakhapatnam District, A.P.—A Geo-spatial Approach”, Springer Series in Geomechanics and Geoengineering, ISBN: 978-3-319-77275-2, 2018.
 60. Bendalam Sridhar, P. JagadeeswaraRao, T. Sridevi, “Spatial Distribution Of Groundwater Quality Parameters In Nandigam In Around Mandals Region-A GIS Approach”, International Journal of Engineering, Science and Mathematics (IJESM), ISSN: 2320-0294.
 61. Bendalam Sridhar, P. JagadeeswaraRao, M. Madhuri, E. Srinivas “Geomorphological Mapping Using Remote Sensing and GISA Tool for Land Use Planning in and around Visakhapatnam, A.P, India” , International Journal of Engineering, Science and Mathematics (IJESM), ISSN: 2320-0294.
 62. Virat Arora., Rao, S.S., Amminedu, E. and Jagadeeswara Rao, P., 2019. Incorporating spectral indices and textural features for improved classification

accuracy towards semi-automated river sand mapping using high resolution multispectral satellite imagery, *Int. Jour. of Global Resources*, 6(01):8-15.

63. Virat Arora., S.Srinivasa Rao., Amminedu, E. and Jagadeeswara Rao,P., 2020. Feature selection for improved classification accuracy targeting river sand mapping, *Journal of Spatial Information Research*,(Springer) DOI 10.1007/s41324-020-00359-1. Online Journal.
64. Jagadeeswara Rao, P, Rajesh Duvvuru and Gudikandhula Narasimha Rao (2020) Land use Land cover impacts on Coastal Erosion in Krishna-Godavari Delta front coast, Andhra Pradesh, India-A Remote Sensing Approach, *Journal of Indian Society of Remote Sensing (ISRS) Springer*, (Under final revision).
65. Temesgen Abraham Gebreselassie , P. Jagadeeswara Rao (2021). Spatial distribution and accessibility of public health services in Adama city, Oromia regional state, Ethiopia - A GIS approach, *Turkish Jour. Of Physiotherapy and Rehabilitation*, 32(3): 3849-3855.
66. Kodamala Prathusha, A.J.Solomon Raju and P.Jagadeeswara Rao (2021). Malaria risk zones analysis and mapping of integrated Tribal development agency, Paderu Region, India, 8(8): 638-653.
67. P.Jagadeeswara Rao, Rajesh Duvvuri and Gudikandhula Narasimha Rao (2021). Land use Land cover impacts on Coastal Erosion in Krishna-Godavari Delta front coast, Andhra Pradesh, India-A Remote Sensing Approach (Communicated).
68. Rao, GudikandhulaNarasimha, Peddada JagadeeswaraRao, Rajesh Duvvuru, Spatial Information technology in forest fire detection, *Caribbean Journal of Science, USA, SCIE* (under revision).
69. Temesgen Abraham Gebreselassie and Jagadeeswara Rao (2021). Spatial distribution and accessibility of public health services in Adama city, Oromia Regional state, Ethiopia-A GIS Approach, *Int. Turkish Jour. of Physiotherapy and Rehabilitation*, 32(3): 3849-3855.
70. Kodamala Prathusha, Aluri Jacob Solomon Raju and Peddada. Jagadeeswara Rao (2023).Malaria risk zones analysis and mapping of Integrated Tribal Development Agency, Paderu Region, India, *GIS Science Jour.* 8(8):638-653.

29. Awards:

1) Best Faculty Award on Science, Health and Engineering awarded by Science Father – 2021.

2) Extended Participants: Building Resilience in Water Management with Multi-Stakeholder Engagement, **Jointly conducted by SIWI with UNU-IAS** on 23-08-2021.

International conferences attended:

1. A study on Evaluation and estimation of groundwater resources of Peddagedda Watershed, Visakhapatnam District, A.P, using GEC-Norms-1997. International Symposium on Challenges of Water resources Management in the Developing Countries in the 21st Century-2001
2. Changing land use/land cover and groundwater quality vis-à-vis water borne diseases in and around Madhurawada, Visakhapatnam District.-International conference on Medical Geography-2009.
3. An Assessment of HIV/AIDS in adolescents – A study in Visakhapatnam City, Andhra Pradesh, India-International conference on Medical Geography-2009
4. Watershed management –A spatial technology approach: International workshop on digital governance and surveillance geoinformatics for integrated natural resources management & CEFNARM-Sustainable livelihood, 8-9 June, 2010.
5. Sustainable development of groundwater resources in the environs of Madhurawada dome-A spatial technology approach-International symposium on Effect of Emissions and Effluents on Environment-2011.
6. Estimation of Groundwater Resources in the environs of Madhurawada Dome, Visakhapatnam District, India: A Geospatial Technology Approach- 34th Applied Geography Conference, Minneapolis, October, 2012, USA.
7. Identification of Waste/Fallow lands for afforestation/Reforestation under Clean Development Mechanism to Enhance Rural Livelihoods in Butchayyapeta Mandal, Visakhapatnam District, India-August, Kyoto, Japan
8. Fluvio-morphological study on silt/sediment deposition in Meghadrigedda reservoir, Visakhapatnam, India-Poland-August, 2014, Europe.
9. Spatio-temporal change of HIV/AIDS in Visakhapatnam District-A Medical GIS Approach-August, 2016, China.
10. FOSS4G-Asia 2018 attended at Moratuwa University, Colombo, Sri Lanka on 2-4 December, 2018.

National Conferences attended

1. Delivered lecture on Sustainable ground water resources-A Geospatial Approach at Geospatial World Forum, Novotel Convention Centre, Hyderabad, 23-25 January,2017
2. Delivered lecture on Clean Development Mechanism at National level workshop on Dissimination of Geospatial Technology for Development of Andhra Pradesh. Dr.B.R.Ambedkar University, Srikakulam, 7 March,2017.
3. Attended One-day workshop on Visakhapatnam Urban Observatory (UK-India Joint network on sustainable cities) at Hotel Daspalla, 21 March, 2017.
4. Attended One-day training programme on customised NDEM Version 3.0 Geo-Portal at Collectors Office, Visakhapatnam, 6 July, 2017.

5. Geospatial World Forum-2017 Delivered lecture on Watershed Management-A case study.
6. Geospatial World Forum-January 17-19, 2018. Delivered lecture on Medical GIS

Conferences/Seminars conducted

1. Familiarisation of RS&GIS for natural resources and environmental management 28-29 March, 2009.
2. National Conference on GISCon2K13, March 25-26, 2013
3. National Workshop on Recent trends in GIS with special reference to Mobile GIS & Crowdsourcing, 27-28 February, 2017.
4. National Workshop on Remote Sensing in water resources evaluation and sustainable management, 22-23 March, 2017.
5. **International Conference** on Remote Sensing for Disaster Management, 11-13 October, 2017.
6. One-Day National Workshop on GIS for Urban Climate Science, 28-2-2018.
7. Two-day National Conference on Geospatial technologies for sustainable Forests and Water Resources, 21-22 March, 2018.
8. Drawing Competition Conducted for High School Children on 11-8-2018 in connection of Remote Sensing Day-2018.
9. Two-Day National Workshop on Remote Sensing and GIS in Health Management, 13-14 August, 2018.
10. One-Day **International Workshop** on Free & Open Source Geospatial Engineering, November 2, 2018.
11. One-Day **International Webinar on Challenges and Strategies towards Sustainable Water Resources Management in Visakhapatnam District, India, Jointly organised by United Nations University Institute for the Advanced Study of Sustainability (UNU-IAS), Tokyo, Japan** on 10-10-2020.
12. Sustainable water resources management in Asia Jointly organised by Department of Economics & RGUKT & **United Nations University-Institute for the Advanced Study of Sustainability (UNU-IAS)**: 30 July, 2021.
13. One-Day workshop on Space Technology: Spatial data for society In Association with OSGeo and ISRS Visakhapatnam Local Chapters On 27-2-2021 at RGUKT, Srikukakulam
14. One-Day workshop on Science, Technology for people In Association with OSGeo and ISRS Visakhapatnam Local Chapters On 28-2-2021 at RGUKT, Srikukakulam.
15. One-Day workshop on Role of remote sensing on temporal monitoring and data dissemination on vegetation. On 20-2-2021 at RGUKT, Srikukakulam Conducted in connection of World Forest Day 21 March, 2021 in Association with OSGeo and ISRS Visakhapatnam Local Chapters On 21-3-2021 at RGUKT, Srikukakulam
16. One-Day workshop on Issues and Challenges of water resources: A remote sensing perspective. Conducted in connection of World Water Day 22 March, 2021 in Association with OSGeo and ISRS Visakhapatnam Local Chapters. On 22-3-2021 at RGUKT, Srikukakulam.

P.h.Ds awarded

1. N.Victor Babu-A study on selection of landfill sites for solid waste management in the environs of Greater Visakhapatnam Municipal Corporation, Andhra Pradesh-A spatial technology approach-2012.
2. P.Pernaidu-HEC-RAS and ArcView GIS for flood modeling and vulnerability study on parts of the Krishna river basin, Andhra Pradesh, India-2013.
3. Usha Chirala-Identification of soil erosion zones with special reference to silt deposition in Meghadrigedda reservoir, Visakhapatnam, India-A geospatial approach-2014.
4. Ashenafi Tolessa Gurmu- Geospatial based study on water resources modeling for sustainable development in Tandava River Basin, Andhra Pradesh-2015.
5. M.Madhuri-A geospatial based study on silt deposition and reduction of storage capacity of Thandava reservoir, Visakhapatnam district, India-2016.
6. Ch.V.Rama Rao-An integrated study on terrain evaluation to mitigate landslide/slope movement in Greater Visakhapatnam Municipal Corporation, Andhra Pradesh 2016.
7. Dadi Sanyasi Naidu-Study on sustainable management of groundwater resources in Greater Visakhapatnam Municipal Corporation, Visakhapatnam district, India-A Hydroinformatics Approach.2017
8. Kuntal Ganguly-A Geospatial based study on execution of village development index to assess the progress of urban villages of Pune, Maharashtra.2018
9. Chukka Srinivasa Rao-An integrated study for assessment of Climate Change impacts on Maize crop in North coastal Andhra Pradesh, India.2018.
10. Roba Gemechu Mammo-A Geospatial based study on improvement of Cadastral information system - A case study of Adama city, Ethiopia.2018.
11. Killana Dileep-Solid Waste Management of GVMC and Environmental Impact Assessment of Kapulauppada Dumping Yard using Remote Sensing and GIS Techniques-2019 (Co-guide).
12. Ch.Anusha-A Geospatial study on landslide vulnerability assessment in the environs of Araku valley, Visakhapatnam District, Andhra Pradesh-2019.
13. G.Narasimha Rao-Geospatial based Disaster management study on Forest fire detection in Greater Visakhapatnam Municipal Corporation, Andhra Pradesh, India- A Semantic web and IoT approach-2019.
14. B.Sridhar-A Geospatial study on Hydrogeochemistry in the vicinity of Nandigam rural environs, Srikakulam District, Andhra Pradesh-2019.
15. B.Suribabu-Health Monitoring with Geospatial technology and Mother Suraksha Android App in Tribal area of East Godavari District, Andhra Pradesh, India-2019.
16. Rajesh Duvvuru-A Spatial Information Technology study on Krishna-Godavari Delta, Andhra Pradesh, India using Smart Flood System by integrating computer vision, Drone and IoT Approaches-2020.
17. J.Ramaji Rao-A study on hydro-geo-chemical environment in and around zone 5 of Greater Visakhapatnam MCnicipal corporation Andhra Pradesh India –A GIS approach. 2021 (Co-guide).

18. Suryadeb chakraborty-Temporal variations on natural and anthropogenic heat flux regime over Bangalore city observed through multi-source remote sensing data-2021.
19. Tamesgen Abraham-Network based geospatial distribution and location allocation of public health centres-A case study of Adama City, Oromia, Ethiopia-2022.
20. Yenda Pentamma- A study on hydrogeochemistry in and around Laveru mandal, Srikakulam district, Andhra Pradesh, India-A geospatial approach-2022.
21. Surya Deb Chakraborty-Temporal variation on natural and anthropogenic heat flux regime over Bangaluru city observed through multi-resource remote sensing data-2023.
22. Virat Aurora-Geospatial mapping of riverine sand resources using machine learning techniques for sustainable management, 2023.

M.Techs' guided			
S.No	Name of the Candidate	Title of the thieses	Year of award
1	Badisa Pradeep	Analysis of advance multispectral, multipolarised microwave and airborne hyperspectral data for mapping geological controls associated with mineralization in Hutti-Maski Schist Belt, Karnataka	2018
2	Bellamkonda Gayathiri	Utilization of Road Network Geodatabase for Various Services Using Very High Resolution Imagery, Kochi, Kerala	2018
3	Jetti Keerthi Priya	Hydrological Viability Analsis for Effective Utilization of Palli Tank Irrigation in Anandapuram Mandal, Visakhapatnam District	2018
4	Siva Durga	To Develop Web Based Decision Support System Application for Integrated GVMC Road Distribution of the Multi Layer GIS Database to Road Information System of GVMC-Using Free Open Source Software, QGIS 2.14 Version	2018
5	Palagiri Durga Rao	WebGIS Based Land Information System: A case Study of Cheedikada Mandal, Visakhapatnam District Andhra Pradesh	2018
6	Vidya Sagar Akula	Village Development Plan Using Geo-Informatics Technology: A case Study of Janhapada Gram Panchayat	2018
7	Alabana Ravi Kiran	A Geospatial Study on Identification of Suitable Tourist Resort Location in Around Bheemunipatnam-A AHP Approach	2018
8	Boosa Appala Raju	Geospatial Study on Site Suitability for Improvement of Sustainable Urban Development in Bheemunipatnam Municipality, Visakhapatnam District	2018
9	Geddam Jasmine	3D Modeling and WEB SCENE Creation of Urban Segment by Using Very High Resolution Satellite Imagery	2018
10	Aisha Khan	A Study on Land Use/ Land Cover with Special Reference to Vegetal cover in Urban Enveronment of Greater Visakhapatnam Municipal Corporation, Andhra Pradesh-A GOOGLE EARTH Engine Approach	2018
11	G.Sravanth	Spatial Analysis of Plantation Dynamics in Selected Integrated Management Progamme (IWMP) Projects Across Different Agroclimatic Zones of Andhra Pradesh	2019

12	Valluri Ratna Mouni	Terrain Evaluation Through Morphometric Studies on Peddagedda Watershed in Visakhapatnam District, Andhra Pradesh-A Geospatial Approach	2019
13	Boddu Rahul	A Geospatial study on Coastal Erosion along the Godavari River to Bheemunipatnam Coast, Andhra Pradesh	2019
14	Patnala Srinivas	Estimation of Surface Aerosol Particulate Matter Concentration over India	2019
15	Vantaku Ramesh	Geospatial Analysis of Multi-Source Thematic Data for Supporting Mission Water Conservation plans in Gulbarga, Karnataka	2019
16	Boddeti Veda Akshara	A study on Land cover in Krishna Godavari Delta Front Coast, Andhra Pradesh-A Geospatial Approach	2019
17	Inteti Radha Saradhi	Paddy Phenological Changes using Sentinel-1&2, SMOS Satellite Data: A Case Study in Guntur District-Andhra Pradesh an Image Analysis Approach	2019
18	T.Dharmaraj	Exploratory Spatial Data Analysis of Mgnrega Assets in Prakasam District, Andhra Pradesh	2019
19	G.Sravanth	Spatial Analysis of Plantation Dynamics in Selected Integrated Management Programme (IWMP) Projects Across Different Agroclimatic Zones of Andhra Pradesh	2019
20	Ampa Ganga Bhavani	A study on identification of coastal erosion hotspots along the Krishna-Godavari delta region, Andhra Pradesh –A Geospatial approach	2017
21	Alugolu Kavya	A geospatial study on spatio-temporal changes in mangrove eco-system along the Krishna-Godavari delta coastal region, Andhra Pradesh	2017
22	G.Sravanthi	Spatial analysis of plantation dynamics in selected Integrated Watershed Management Programme(IWMP) projects across different agroclimatic zones of Andhra Pradesh	2017
23	Kaja Divya	GIS based analysis for spatial patterns of geotagged MGNREGA assets on Bhuvan geo-portal in West Godavari district, Andhra Pradesh	2017
24	Kirthi Priya Nethala	Semi-automated building feature extraction of Madhurawada area, Visakhapatnam district on a high resolution satellite image- A Dip approach	2016
25	Kappa Gurusrinivasaraju	Programing geoserver using rest API	2016
26	K.S.V.Narayana Murthy	A digital image processing based study on automated road feature extraction from high resolution satellite images using efficient particle	2016

		filter – A case study of part of Visakhapatnam city	
27	Neeraja Koliye	Analysis of watershed level changes in different terrain categories for parts of semi arid track in Andhra Pradesh	2016
28	Bommala Priyadarshini	A study on estimation of building materials on plains of Visakhapatnam district-A Remote Sensing approach, Andhra Pradesh, India	2016
29	Mohammed Hussen Yessuf	Geospatial study on sustainable ground water resource management in Bheemunipatnam Municipality, Visakhapatnam district, Andhra Pradesh	2016
30	M.Leela Priyanka	Assesment of reservoir sedimentation/silt deposition Thatipudi reservoir, Vijayanagaram district-A Geospatial approach	2015
31	D.Manaswi	A Geospatial based study on Ground water management in Greater Visakhapatnam Municipal Corporation, Andhra Pradesh	2015
32	B.B.Pranaya	Role of Remote Sensing in vegetation characterization in Greater Visakhapatnam Municipal Cooperation area, Visakhapatnam district, Andhra Pradesh	2015
33	B.Kanaka Appalaraju	A Geospatial based study on artificial recharge of Ground water resources management in Greater Visakhapatnam Municipal Corporation, Visakhapatnam district, Andhra Pradesh	2015
34	K.Lakshmi Manasa	Long-term variations in sea surface temperature and phytoplankton biomass along the East coast of India and its impact on fish catch	2015
35	Sagar Basnet	A Geospatial based study on snow cover surface temperature estimation and change detection in Dudh Koshi river basin, Nepal	2015
36	Bibek Nepal	Geographic Information Ststems based Landslide susceptibility index mapping using information value method-A case study on Sindhupalchok district, Nepal	2015
37	Yarammachetty Siva Kumar	Impact of post monsoon cyclones and depressions on phytoplankton concentration in Bay Of Bengal-A study using Ocean Colour and Sea Surface Temperature	2015
38	Tran Van Ho	A study on improvement of Object based image analysis for forest extraction in Nongha, Vietnam	2015
39	B.Anand	Soil characterists for constructions in Vizianagaram District, Andhra Pradesh	2015
40	Amare Wale Kassa	Identification of Ground water potential zones and quality management in Greater	2014

		Visakhapatnam Municipal Corporation (GVMC), Visakhapatnam district, Andhra Pradesh, India-A Geospatial Approach	
41	Srinu Yavarna	A case study on Temporal Change of Vegetation in and around Visakhapatnam-A DIP Approach	2014
42	Thota Sivasankar	A study on spatio-temporal change on HIV/AIDS in Visakhapatnam district-A medical GIS approach	2014
43	M.Veera Venkata Naveen	Estimation of Urban roughness parameters using 3D building database	2014
44	M.Sudha	A study on ground water potential zones in GVMCorporation-A GIS approach	2014
45	N.Srilakshmi	A study on geotechnical investigations along the Bheemili Beach road, Visakhapatnam District-A GIS Approach	2014
46	Anil Kodimela	A study on urban planning in Bheemunipatnam Municipality, Visakhapatnam district-A Geospatial technology approach	2012
47	Sankar Rao Koon	A study on tourism development in Bheemunipatnam Municipality, Visakhapatnam district-A GIS approach	2012
48	Yasobu Yarragunta	Study on impact of agricultural crop wise information and PET estimation methods on sub-basin level water resources assessment	2011
49	Srinivas Elakurthi	A study on spatial database for improvement of basic amenities in Madhavanagar slum area, Nalgonda district, Andhra Pradesh-A GIS approach	2011
50	V.R.K.Vara Prasad Itta	Selection of landfill sites for solid waste management in and around GVMC, Visakhapatnam dist-A GIS approach	2011
51	Sivaramakrishna Devarapalli	Oceansat-2 OCM data for Agricultural Drought monitoring: A case study	2011
52	B.Sridhar	A Study on identification of landslide zones along the recent expansion of Bheemili Beach road, Visakhapatnam District-A GIS Approach	2010
53	B.Vasudeva Rao	A spatial technology based study on landslide vulnerable zones location along the recent expansion of Bheemili Beach road, Visakhapatnam District	2010
54	N.Samyuktha	Semi-automated road feature extraction on a high resolution satellite image in and around APSRTC Complex, Visakhapatnam-A DIP approach	2010
55	Sk.Razia Sulthana	A study on silt/sediment deposition in Meghadrigedda reservoir-A Spatial technology approach	2010

56	A.Arun Kumar	A study on vegetation characterisation in Greater Visakhapatnam Municipal area by using RS & GIS techniques	2009
57	Ch.Sudha	Affective Microplanning	2003
58	N.Rmakumari	A study on urban sprawl analysis of Visakhapatnam Municipal Area-A RS and Digital Image processing approach	2004
59	V.Brinda	Selection of landfill site for solid waste management in and around Visakhapatnam Municipal area-A GIS approach	2004
60	Satish Masavarapu	Hyderabad city Information guide using WebGIS	2005
61	Amirishetty Devendra Prasad	Remote Sensing and GIS for the Evaluation of surface water pollution sensitivity in Hyderabad	2003
62	J.Satish	Remote Sensing and GIS for evaluation of ground water pollution sensitivity in Hyderabad District	2003
63	S.Jhansi	Groundwater quantification in Peddagedda watershed in Visakhapatnam District, Andhra Pradesh	2000
64	B.A.Patrudu	Generation of path route from road network using Russing high resolution imagery and network analysis	1999