Name: Dr. Prafull Singh

Designation: Assistant Professor (III)

Brief Profile:

Dr. Prafull Singh is working as Assistant Professor in the field of Earth sciences and Remote Sensing at Amity Institute of Geoinformatics & Remote Sensing, Amity University, Noida, U.P. India He has completed his M.Sc. in Geology and Ph.D. degree in Hydrogeology and Remote Sensing.

He is working in the field of Hydrogeology, Water Quality, Climate Change and Remote Sensing. He has more than 12 years of teaching and research experience. Two students have completed their Ph.D. degree under his guidance and another four are at the submission stage. He Awarded DST young Scientist award in 2014 and completed one DST project as Principal Investigator. He has published more than 50 research articles in National and International Journals and has 6 chapters in edited Books with International publisher. He is reviewer of many International journals in the field of Water resources, Natural disasters, Ground water quality, Urban Climate and remote sensing and member of editorial cum Advisory Board.

Educational Qualification:

PhD – Groundwater Modeling & Remote Sensing (2009)

Area of Research:

- Groundwater Potential and Recharge Modeling
- Groundwater pollution
- Urban Environmental Monitoring and sustainability
- River Basin Management
- Watershed Modeling
- Rainfall runoff & Soil Erosion modeling
- Application of Space Technology in Flood , Drought and Landslide Mapping and Monitoring
- Application of advance remote Sensing (Thermal, Hyperspectral and Microwave) for earth resource mapping & Monitoring

No. of PhDs Supervised: Completed - 02
Ongoing - 04

No. of PGs: Ongoing – 10 / Completed –25

Projects and Consultancy:

Ongoing : (2 under process)

Completed: (01)

- Assessment of Aquifer Vulnerability to Pollution in Lucknow Area, using Integrated Approach, Young Scientist Science Engineering Research Board (SERB), (DST)- 2014-2017.

Awards and Fellowships

- Award Certificate in Shikshak Samman Samaroh-2018 organized Rashtriya Shaikshik Mahasangh, U.P. (2018)
- DST Young Scientist Award (2014)
- University Doctoral Research Fellowship (2004-2008).

Memberships:

1. Member IEEE Geosciences and Remote Sensing Society, Germany.
2. Member International Association of Hydrological Sciences, U.K.
3. International Association of Engineers, Hong Kong.
4. Member Earth Science India

Research Publications in International Journals (After Joining Amity University)

1. Prafull Singh (2019) A Comparative Study of Spatial Interpolation Technique (IDW and Kriging) for Determining the Ground Water Quality**.**GIS and Geostatistical Techniques for Groundwater Science, Page, 43-56.Elsevier (USA).

2. Prafull Singh (2019) Application of Thermal Imaging and Hyperspectral Remote Sensing for Crop Water Deficit Stress Monitoring.Geocarto International.DOI: 10.1080/10106049.2019.1618922 (Impact Factor 1.759).

3. Prafull Singh (2019) Comparison of Various Modelling Approaches for Water Deficit Stress Monitoring in Rice Crop through Hyperspectral Remote Sensing. Agriculture Water Management. 213, 231–244. (Impact Factor 3.182).

4. Prafull Singh (2019) Probabilistic Landslide Hazard Assessment using Statistical Information Value (SIV) and GIS Techniques: a case study of Himachal Pradesh, India. 1-12, American Geophysical Union. John Wiley & Sons,

5. Prafull Singh (2018) Monitoring spatial LULC changes and its growth prediction based on Statistical Models and Earth Observation Datasets of Gautam Buddha Nagar, Uttar Pradesh, India. Environment, Development and Sustainability. 1-19 (Impact Factor 1.379).

6. Prafull Singh (2018) Morphotectonic Analysis of Sheer Khadd River Basin Using Geo-spatial Tools. Spatial Information Research. 26, 4 , 405–414.

7. Prafull Singh (2018) Modeling LULC Change Dynamics and its Impact on Environment and Water Security: Geospatial Technology Based Assessment. Journal of Ecology, Environment and conservation .24, 300-306.

8. Prafull Singh (2018) Hydrological inferences through morphometric analysis of lower Kosi river basin of India for water resource management based on remote sensing data . Applied Water Science, DOI: 10.1007/s13201-018-0660-7.

9. Prafull Singh (2017) Geoinformatics for assessing the inferences of quantitative drainage morphometry of the Narmada Basin in India. Applied Geomatics. 9. 167–189.

10. Prafull Singh (2017) Assessment of impervious surface growth in urban environment through remote sensing estimates. Environmental Earth Science, 76:541-554. (Impact Factor 1.435).

11. Prafull Singh (2017) Impact of Land use Change and Urbanization on Urban Heat Islands in Lucknow City, Central India. A Remote Sensing Based Estimate. Sustainable Cities and Society. 32: 100-114. (Impact Factor 3.072).

12. Pafull Singh (2016) Hydrogeological Component Assessment for Water Resources Management of Semi-Arid Region: A Case Study of Gwalior, M.P., India. Aabian Journal of Geoscience. DOI: 10.1007/s12517-016-2736-8.(Impact Factor 0.860).

13. Prafull Singh (2016) Appraisal of Urban Lake Water Quality through Numerical Index, Multivariate Statistics and Earth Observation Datasets. International Journal of Environmental Science and Technology. 445-456. (Impact Factor 2.037).

14. Prafull Singh (2016) Assessment of Urban Heat Islands (UHI) of Noida City, India using multi-temporal satellite data. Sustainable Cities and Society, 19–28. (Impact Factor 3.072).

15. Prafull Singh (2016) Appraisal of surface and groundwater of the Suburnarekha River Basin, Jharkhand, India: Using remote sensing, Irrigation Indices and statistical techniques. Geospatial technology for Water Resource Application. CRC Press, Taylor Francis. ISBN: 978-1-4987-1968-1.

16. Prafull Singh (2015) Morphometric evaluation of Swarnrekha watershed, Madhya Pradesh, India: an integrated GIS-based approach. 10.1007/s13201-015-0354-3. Applied Water Science.

17. Prafull Singh (2014) Hydrological Inferences from Watershed Analysis for Water Resource Management using Remote Sensing and GIS Techniques. The Egyptian Journal of Remote Sensing and Space Sciences. 17, 111–121.

18. Prafull Singh (2015) Water Reuse Product in Urban Area. Urban Water Reuse Handbook. CRC Press, Taylor Francis. ISBN: 9781482229141.

19. Prafull Singh (2013) Assessment of Groundwater Prospect zones of a hard rock terrain using Geospatial tool. Hydrological Science Journal (58: 213-223). (Impact Factor 2.546).

20. Prafull Singh (2013) Morphometric analysis of Morar River Basin, Madhya Pradesh, India, using remote sensing and GIS techniques. Environmental Earth Science (68:1967–1977). (Impact Factor 1.435).

21. Prafull Singh (2013) Geochemical modelling of fluoride concentration of hard rock terrain of Madhya Pradesh, India. Acta Geologica Sinica. (87: 1421-1433). (Impact Factor 2.506).

22. Prafull Singh (2012) Groundwater resource evaluation in the Gwalior area, India, using satellite data: an integrated geomorphologic and geophysical approach. Hydrogeology Journal(19: 1421–1429). (Impact Factor2.071).

National Peer Reviewed Journal: 15

International Conference/Proceedings: 15

Reviewer of Journal:

Science of Total Environment, Environmental Earth Science, Environmental Monitoring Assessment, Water Resource Management, Hydrological Science Journal, Hydrogeology, Journal, Groundwater for sustainable Development , Sustainable City and Society, Applied Water Science, Current Science. Earth System Sciences, Sustainable Water Management. Regional Climate Change, GI & Science and Remote Sensing.

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