

Professor J.K. Garg

Area Of Specialization: Geospatial techniques for Bioresources and Environment Management, Wetland Conservation and Management, Energy and Environment, Ecological Engineering, Landscape dynamics and Urban Heat Island Effect, Disaster Management.



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Education: M.Sc. (Meerut University), M.Phil. (Jawaharlal Nehru University), Ph.D. (Gujarat University)

Research Experience:

Space Applications Centre (ISRO), Ahmedabad: July 1976- January 2008

Guru Gobind Singh Indraprastha University: February 2008- continuing

Academic Positions Held in Guru Gobind Singh Indraprastha University: **Dean**, University School of Environment Management, (2008-2011); **Director**, Centre for Disaster Management Studies (2011-2014).

Research and Teaching Experience: Prof. J.K. Garg has 42 years of research experience. He joined Space Applications Centre (ISRO), Ahmedabad in 1976 and pioneered the research pertaining to use of remote sensing and GIS for environmental applications in the country. It may be mentioned that 1st scientific inventory of the wetlands in the country, sponsored by the Ministry of Environment and Forests, Government of India, was carried out under his guidance. He has completed successfully 12 research projects sponsored by the Ministry of Environment, Forest, and Climate Change, Ministry of Agriculture, Department of Space, and GNCTD in various spheres of bio-resources and environment using geospatial techniques. His main endeavour has been to develop techniques for environmental appraisal of developmental activities (mining, thermal power generation, river valley projects), wetland conservation and management, disaster management (landslide hazard assessment, forest fire) besides natural resources census using RS and GIS techniques. He was also Project Manager (Landslides) from India in International Charter on Space and Disasters.

Prof. Garg has been teaching remote sensing to M.Sc. students since joining Guru Gobind Singh Indraprastha University in 2008. He has introduced and taught contemporary specialized subjects such as remote sensing and GIS, wetland conservation and management, ecosystem management and restoration, disaster risk reduction, besides modifying existing courses on ecology to suit the

current global thinking. Prof. Garg has introduced and taught courses on Geoinformatics, Aquatic Biology, and Ecosystems and Natural Resource Management to Ph.D. students.

Prof. Garg has more than 152 publications which include research papers in international/national journals, book articles, and reports etc. His current areas of research include emission and modelling of GHGs, climate change and ecosystem response, hyperspectral remote sensing of wetlands, Urban Heat Island Effect, Riverine ecosystems and landscape dynamics, environmental hazards and developmental planning, biodiversity conservation, EIA of major developmental activities, river valley projects, ecosystem analysis and management, and natural hazards assessment etc. using geospatial techniques and other contemporary analytical tools.

Other Academic Activities: Prof. Garg has been in the selection committee of various universities such as Central University of South Bihar, Nalanda University, Rajgir, TERI School of Advanced Studies etc., and also National Centre for Antarctic and Oceanic Research, Goa, Ministry of Earth Sciences, DRDO etc. He is also Member Academic Council of TERI School of Advanced Studies, and Board of Studies in many universities. Prof. Garg has also delivered large number of lectures on use of geospatial technology for climate change, environment management, disaster management, wetland management etc. in various international and national forums such as NASA LCLUC, ASSOCHAM, National Institute of Disaster Management, Indian Institute of Public Administration, Delhi University, Jawaharlal Nehru University etc. Prof. Garg is also Honorary Member of Wetland International – South Asia. Earlier he was member of Technical Committee of Quality Council of India -for accreditation of environmental consultants.

Reviewer – in International and National Journals on Remote Sensing of Environment, Biodiversity Conservation, and Environment Management (International Journal of Remote Sensing, Journal of Indian Society of Remote Sensing, Geomatics- Journal of Indian Society of Geomatics, Journal of Advanced Research in Alternative Energy, Journal of Pollution Effects and Control, International Journal of Biodiversity and Conservation, Applied Water Science etc. Prof. Garg is on the Editorial Board of Journal of Environment and Ecology.

Awards: Fellow - Society for Environment and Development (India), New Delhi 110077

