

## **CV – Professor Mahesh Kumar Jat**

### **Personal Details**

Place and date of birth: Tulsipura, Jaipur (India), December 15, 1972

Nationality: India

Address (work): Dept. of Civil Engineering, Malaviya National Institute of Technology Jaipur (India)

JLN Marg, Jaipur, Rajasthan (India) - 302017

Email: [mkjat.ce@mnit.ac.in](mailto:mkjat.ce@mnit.ac.in); mahesh.mnit@gmail.com; Phone (work): +91 2713412 Skype: mahesh.mnit

### **Education**

2004 – 2007 PhD in Integrated Water Management, Department of Civil Engineering, Indian Institute of Technology Roorkee Roorkee, India - 247667 (Graduation: 10 Oct, 2007)

1997 - 1999 M. E. in Water Resources Engineering, Department of Civil Engineering, Malaviya National Institute of Technology Jaipur (India)

1993 – 1997, B. E. in civil engineering, J.N. Vyas University Jodhpur, India

### **Professional experience**

Jun. 2018 - 2020 - ... Head of the Civil Engineering Department, MNIT Jaipur

May. 2018 – ... Professor in Water Resources Engineering, Dept. of Civil Engineering, Malaviya National Institute of Technology Jaipur (India)

March. 2008 - May. 2018 Associate professor, Dept. of Civil Engineering, MNIT Jaipur (India)

March 1999 - March. 2008 Lecturer (Assistant Professor), Dept. of Civil Engineering, MNIT Jaipur (India)

### **Scientific focus area**

Working in the area of urban hydrology, hydrological modelling, land use/ land cover change modelling & predictions, integrated water resources planning & management, climate change & their impact on water resources, development of an Integrated water management Model based on optimization for the optimum integration of supply and demand, land use land cover change and its impact on climate, optimum land use planning and application of geo-spatial technologies like remote sensing and GIS.

### **Publications - summary**

54 publications in international peer reviewed journals (+ 2 in press); 04 contributions to books (book chapters); about 56 contributions to conferences (posters, presentations), workshops, etc.; A detailed list is available on request. H-index = 16 ; I index – 26 (ISI, Web of Science), Citations: 1751.

### **Research Supervision experience**

Ph.D supervised – 09 Awarded; 06 in progress

M. Tech. – 34 awarded; 03 in progress

### **Research funding (examples from past 5 years, full list available on request)**

2012 - 2015, AICTE, co-applicant, Assessment of Climate Change & Its Impact on Urban Hydrology: Indian Perspective' (4 million rupees) // 2013 - 2018, FIST, DST, Govt. of India, main applicant, 'Development of water technology centre' at MNIT Jaipur (6.7 million rupees) //

2017-2020, Ministry of Water Resources, Govt. of India, co-applicant, 'Climate Change Impact Studies for Rajasthan (Area of Inland Drainage and Mahi basin)' (25.2 million rupees) //

2018-2021, DWDS, Govt. of Rajasthan, **main applicant**, Development of Experimental Watershed and Hydrological Modelling for Improvements in Performance of Watershed Intervention Works' (1.50 Million Rupees)

2020-21, NDMA, Resource mapping and development of MIS, Rs. 23.5 lakh

2021-22, NDMA, Development of Disaster risk for 60 Indian Cities, Rs. 116.24 lakh

### **Research Project management experience**

2008-2009, 'Water management plan for Jawaharlal Navodaya Vidyalaya Paota, Project team member // 2004-2007, Environmental Assessment & Monitoring of DPIP Project, World bank sponsored project, Project team member // 2012-2015, 'Assessment of

Climate Change & Its Impact on Urban Hydrology: Indian Perspective, Project team member in a Nationally Coordinated project //

2013-2018, FIST, DST Project on Development of Water Technology Centre, Project Leader // 2017-2020, 'Climate Change Impact

Studies for Rajasthan (Area of Inland Drainage and Mahi basin)' (MoWR, Govt. of India), Co -Project leader // 2018-2021,

Development of Experimental Watershed and Hydrological Modelling for Improvements in Performance of Watershed Intervention

Works), Project Leader, DWDS, Govt. of Rajasthan, India. Project leader - Developing an MIS for earthquake resources for NDMA,

Project Leader – Development of GIS based aseismic risk for 60 Indian cities.

### **Others**

Expert lectures delivered – 63; Member of professional societies – ASCE, ISTE, IWRS, ISRS, IAHS

Member in many expert committees - like selection committee, BOS, etc.; Foreign Collaborations – UTS, Australia, KIT Germany, UCSB, IHE, Delft;

Short term trainings conducted – 56 training programs for faculty and Industry peoples