

Profile Page



Name : Dr Mahesh Patel
Designation : Assistant Professor
Department : Civil Engineering
Qualification : PhD Experimental Hydraulics (IIT Guwahati)
M Tech Water Resources Engineering (IIT Guwahati)
B.E. Civil Engineering (Samrat Ashok Technological Institute
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Research Interests :

Turbulent fluvial flows, bedform dynamics, flow resistance, bed morphology, the evolution of sheet flow, seepage in alluvial channels, environmental hydraulics, and hyporheic flow over fixed bedforms.

Other Profile Links :

Google Scholar Link :

Mahesh Patel [Click Here](#)

Journal Publications :

Year	Journal	Publication
2019	ISH Journal of Hydraulic Engineering (in press)	Jyotismita Taye, Jyotirmoy Barman, Mahesh Patel, and Bimlesh Kumar, "Turbulent Characteristics of Sinuous River Bend"
2017	Earth Surface Processes and Landforms, Wiley	Mahesh Patel, Shantanaba Majumder and Bimlesh Kumar, 'Effect of seepage on flow and bedforms dynamics'
2017	CATENA, Elsevier, 158(1), 219-234	Mahesh Patel and Bimlesh Kumar, 'Flow and bedform dynamics in an alluvial channel with downward seepage'
2017	Canadian Journal of Civil Engineering, 1-12	Mahesh Patel, Shantanaba Majumder, and Bimlesh Kumar, 'Statistical description of morphological characteristics of bedforms in seepage affected alluvial channels'
2017	Submitted in Royal Society Open Science	Vishal Deshpande, Mahesh Patel and Bimlesh Kumar, 'Seepage in threshold alluvial channels: an insight into the changing flow hydrodynamics'
2015	Geomorphology, Elsevier, 248(1), 161-171	Mahesh Patel, Vishal Deshpande and Bimlesh Kumar, 'Turbulent characteristics and evolution of sheet flow in an alluvial channel with downward seepage'

2015	ISH Journal of Hydraulic Engineering, Taylor & Francis, 21(3), 333-342	Anurag Sharma, Mahesh Patel and Bimlesh Kumar, 'Turbulent parameters and corresponding sediment transport in curved cross-section channel'
2015	Journal of Indian Water Works Association, 47 (1)	Anurag Sharma, Mahesh Patel and Bimlesh Kumar, 'Performance appraisal of velocity predictors in channel flow'

Conference Publications :

Year	Conference	Publication
2018	National Conference on Advanced Structures, Materials and Methodology in Civil Engineering ASMMCE 2018 3rd - 4th November 2018, NIT Jalandhar	Smriti and Mahesh Patel "Investigating the Impact of Land Use and Land Cover Changes in Regions of Punjab: A Review" (Best Paper Award)
2016	20th Congress of the Asia Pacific Division of the International Association for Hydro Environment Engineering and Research held in Colombo, Sri Lanka	Mahesh Patel, Vishal Deshpande, and Bimlesh Kumar, 'Resistance to flow in an alluvial channel subjected to seepage'
2016	4th IAHR Europe Congress, Liege Belgium	Mahesh Patel, Vishal Deshpande and Bimlesh Kumar, 'Effect of seepage on the friction factor in an alluvial channel'
2015	36th IAHR World Congress 2015 held in The Hague, Netherlands	Anurag Sharma, Mahesh Patel, and Bimlesh Kumar, 'Turbulence in curvilinear bed streams'
2014	International Conference on Soft Computing for Problem Solving, NIT Silchar, India	Jaideep Sehrawat, Mahesh Patel, and Bimlesh Kumar, 'Gaussian process regression to predict incipient motion of alluvial channel'
2014	National conference on Water and its Sustainability in Mining and Other Environment: VISION 2050, ISM Dhanbad, India	Mahesh Patel, Sainath Panigrahi, and Bimlesh Kumar, 'Dam break analysis: case studies of Bettakumbri and Hongadhalla dam'
2013	International Conference on Climate Change, Water Resources and Disasters in Mountainous Regions: Building Resilience to Changing Climate, SOHAM, Kathmandu, Nepal	Vishal Deshpande, Mahesh Patel, and Bimlesh Kumar, 'Spatio-temporal variation of critical parameters in threshold channel'
2013	International Conference on Sustainable Innovative Techniques in Civil and Environmental Engineering, JNU Delhi, India	Mahesh Patel and Bimlesh Kumar, 'Resistance predictor with bedforms in alluvial channel'
2012	International Conference on Environmentally Sustainable Urban Ecosystems, IIT Guwahati, India	Mahesh Patel, Sumit Talukdar, Vishal Deshpande, and Bimlesh Kumar, 'Use of large tilting flume to characterize the sediment movement in alluvial stream'

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
Book Chapter	Sustainable Hydraulics in the Era of Global Change / Effect of seepage on the friction factor in an alluvial channel	Taylor & Francis Group, CRC Press London	Mahesh Patel, Vishal Deshpande and Bimlesh Kumar	978-1-138-02977-4	2017
Book Chapter	Development of Water Resources In India / Turbulent Scale Measurement in Mobile Bed channel	Springer	Anurag Sharma, Dengkhw Brahma, Mahesh Patel, and Bimlesh Kumar	978-3-319-55125-8	2017

Book Chapter	Fluid Mechanics and Fluid Power Contemporary Research Lecture Notes in Mechanical Engineering / Flow over fluvial bedforms with suction	Springer	Mahesh Patel, Sainath Panigrahi, and Bimlesh Kumar	978-81-322-2743-4	2016
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Events Organized :

Category	Type	Title	Venue	From	To	Designation
Short Term Course	Natonal	Recent Research and Innovations in Civil Engineering	Department of Civil Engineering, NIT Jalandhar, Punjab	16-07-2018	20-07-2018	Coordinator
Workshop	Natonal	Application of Superplasticizers and Air Entraining Agents in Concrete Industry	NIT Jalandhar	02/02/2019	02/02/2019	Coordinator

Award and Honours :

Title	Activity	Given by	Year
Future Talents' Postdoc Career Days 13th to 16nd May, 2019	Invited and Funded by the Technische Universität Darmstadt, Germany	TU Darmstadt, Germany	2019
Future Talents' Postdoc Career Days 19th to 22nd March, 2018	Invited and Funded by the Technische Universität Darmstadt, Germany	TU Darmstadt, Germany	2018
Travel Grant to Attend International Conference	For Participating International Conference '4th IAHR Europe Congress' in Liege, Belgium	Science and Engineering Research Board, Department of Science and Technology, Govt of India	2016
3rd prize	Poster presentation in Assam Water Conference	Executive Enginner of PWD, Govt of Assam	2014
Castigliano's Award	For best structure student during under-graduation	H.H. Jyotiraditya Scindia, Chairman Board of the governors	2009-10