## Dr. Mukesh Kumar Tiwari

		Qualification : Ph.D.Designation : Assistant Professor & HOD(Department of Irrigation and Drainage Engineering) & (Department of Soil and Water Conservation Engineering)In-charge-Training and Placement & Coordinator StudentREADY Program CAET, AAU, Godhra
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PG Guiding	Completed 8 M. Techs, 03 M. Techs (On-going), 02 PhD. (On- going)	
<b>Research Profiles:</b>		
Academia.edu	https://anandagriculturalu.academia.edu/MukeshTiwari	
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Scopus	https://www.scopus.com/authid/detail.uri?authorId=35331082600	
Publons	https://publons.com/researcher/467427/mukesh-kumar-tiwari	

Experier	nce Pro	ject Associate (June, 2004 to Feb, 2	005) SRIJA	N, NGO, New D	elhi
-	Res	Research Associate (Mar, 2005 to Mar, 2006) Water Technology Centre,			
		an Agricultural Research Institute (IA			
		earch Fellow (Apr., 2006 to Aug., 2	006) Dept. o	of Civil Engineer	ing, Indian
		itute of Technology (IIT), Delhi			
		earch Associate (Sept, 2006 to Jan,			
		artment of Agril. & Food Engg., Indi	an Institute of	of Technology (I	IT),
		ragpur, India	2011) D /		7 1
		istant Professor (Feb, 2011 to Sept	, 2011) Dept	. AgrilEngg. &	ech.,
		aland University, India	2012)		
		istant Professor (Oct., 2011 to Feb., in Ganga Institute of Technology and		CITS) Joholour	
		istant Technical Specialist (Mar, 20			
		SI Pvt. Ltd., Noida, India	12 to May,	2012)	
		istant Professor (May, 2012 to Till of	date) Colleg	e of Agricultural	
		ineering & Technology, Anand Agric		•	
Develop	ment & Research A				
				Status of	
S. No.	Sponsoring Agenc	y Title of Project	(PI/Co-	Status of the Project	
D. 110.	Sponsoring Agene		PI/other)	ule i lojeci	
1.	Anand Agricultura	Forecast of Monthly Drought	PI	On-going	
	University, Anand	Indices (SPI and SPEI) in		0 0	
	-	Middle Gujarat			
2.	Anand Agricultura		PI	Completed	
	University, Anand	using MODIS and Landsat-8 dataset in selected semiarid			
		region of middle Gujarat			
		Tegion of middle Oujarat			
3.	Anand Agricultura	Daily and monthly rainfall	PI	Completed	
5.	University, Anand	forecasting using Extreme	11	Compiciou	
	Sin, cibicy, 7 manu	Learning Machines			
		(ELMs), ANN with genetic			
		algorithm (GANN) in the middle			
		region of Gujarat.			
4.	Anand Agricultura		PI	Completed	
	University, Anand	approaches for optimum		Completed	
	·	productivity in Panam irrigation			
		command area			
	TC		DI		
5.	Information	Measurement to management	PI	Completed	
	Technology	(M2M): Improved water use			
	Research Academy				
	(ITRA), Ministry of				
	Electronics and	experimental sensor network			

	Information Technology, Delhi, GoI.	New			
6.	Anand Agric University, A		Impact Assessment of Future Climate Change on Water Availability in the Semi-arid Middle Region of Gujarat	PI	Completed
7.	Anand Agricultural University, Anand		Evaluating canal scheduling approaches for optimum productivity in Panam irrigation command area	PI	Completed
8.	Anand Agric University, A		Daily and Monthly Rainfall Forecasting using Extreme Learning Machines (ELMs), ANN with genetic algorithm (GANN) in the Middle region of Gujarat	PI f	Completed
9.	Anand Agric University, A		Diagnostic Analysis to Understand the Performance of Agricultural Systems in the Periphery of Narmada Comman Area. Anand Agricultural University	Co-PI d	Completed
Public	cations:	Г			
		Interna	tional Publications :	30	
			al Publications :	03	
			al Conferences :	05	
		Sympo	al Conference/Seminar/ : sium/Workshop	08	
<b>.</b> .			ences/Seminar/Workshop	15	
Reviev Assigr			viewer of research papers for ernational repute related to Water		
in	Publications nal/Internationa nals	Tiv dee	andel, N.S., Chakraborty, S.K., J vari, M.K., & Jat, D. (2021). Identi p learning models. Neural Comp 63–5367.	fying crop w	ater stress using
		V., Ser Par	ariya, S., Hirapara, A., Meherbana Kalubarme, M. (2021). Soil I ntinel-1 SAR data and Land achmahal district, Gujarat State vironment and Geoinformatics, 8(	Moisture Es Surface T . Internatio	stimation using emperature in

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4.	Kumar, D. and Tiwari M. K., (2020) Optimization Modelling of Conjunctive Use of the Irrigation Water Resources for Agricultural Sustainability. International Journal of Current Microbiology and Applied Sciences, 9(5): 1467-1480.
5.	Koradia, A.K., Bhalala, A. D., Tiwari, M.K. (2019). Rainfall- runoff simulation modelling using artificial neural networks in semi-arid middle Gujarat region. Indian Journal of Soil Conservation, 47(3), 231-238.
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	Information Systems and Artificial Neural Networks. In
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	<ul> <li>5801-1 40)</li> <li>Tiwari, M. K., Chatterjee, C. (2018). Flood Forecasting and Uncertainty Assessment Using Wavelet and Bootstrap Based Neural Networks. In: Kim, D., Samui, P. (eds.) Handbook of Research on Predictive Modeling and Optimization Methods in Science and Engineering, IGI Global. (<u>https://www.igi-global.com/book/handbook-research- predictive-modeling-optimization/185480#table-of-contents</u>)</li> </ul>

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Extension /Popular Articles	<ul> <li>૧. સૂર્થવંશી,એસ. બી.,ચાવડા જે. જે,તિવારી,એમ.કે. (૨૦૧૬). વરસાદી પાણીનાં સંગ્રહ્ દ્વારા જળ સંરક્ષણ. કૃષિગોવિધા, ૬૮(૧૨). ISSN2320-8902</li> <li>૨. ગોર એમ એલ,તિવારી,એમ.કે.(૨૦૧૬). મધ્ય ગુજરાતનાં વિસ્તારમાં વરસાદનાપાણીનો સંગ્રહ્. કૃષિગોવિધા, ૬૯(૨). ISSN2320-8902</li> <li>૩. તિવારી એમ.કે., પંપાણિયા નિરવ, પારગી, એસ.જે. (૨૦૧૮). ખેતીમા દૃષિત પાણી ( ઔધોગિક અને ઘરેલુ ) નું વ્યવસ્થાપન,કુદરતી સ્રોતોનુ વ્યવસ્થાપન,EXT -3:૧૫:૨૦૧૮: ૧૦૦૦; ISSN: 978-93-5346-260-4.</li> <li>૪. તિવારી એમ.કે., પારગી, એસ.જે.,પંપાણિયા નિરવ, (૨૦૧૮).કુદરતી સ્રોતોનુ વ્યવસ્થાપને, આરંગે, પારગી, એસ.જે.,પંપાણિયા નિરવ, (૨૦૧૮).કુદરતી સંશાધનોની જાળવણી અને ગુણવત્તા માપનના સંચાલનમા રિમોટ સેન્સિંગ અને જીઆઈએસનો ફાળો,EXT -3:૧૫:૨૦૧૮: ૧૦૦૦;ISSN: 978-93-5346-260-4.</li> <li>૫. પંપાણિયા નિરવ,તિવારી એમ.કે, કુનપરા, અરવિંદ. (૨૦૧૮). ખેતીમાં વરસાદી પાણીનું વ્યવસ્થાપન અને ભૂગર્ભજણ સંગ્રહ્. EXT -3:૧૫:૨૦૧૮: ૧૦૦૦; ISSN: 978-93-5346-260-4.</li> </ul>
Practical Manuals:	Devrajsinh I. Thakor, Tiwari, M. K. (2020). Sprinkler and Micro Irrigation Systems - Practical Manual. College of Agricultural Engineering and Technology, AAU, Godhra. EDU-4: 18: 2019: 200
	Pampaniya, Nirav, Tiwari, M.K. (2019). Irrigation Engineering- Practical Manual. College of Agricultural Engineering and Technology, AAU, Godhra. EDU-4: 36: 2020: 200
	Pampaniya, Nirav K., Tiwari, M.K. (2018). <b>Practical Manual on</b> <b>Remote Sensing and GIS Applications</b> . College of Agricultural Engineering and Technology, AAU, Godhra. EDU-4: 3: 2018: 150
	Balas, Duda, Tiwari, M.K (2019). <b>Practical Manual on Ground</b> <b>Water, Wells and Pumps</b> . Department of Irrigation and Drainage Engineering, College of Agricultural Engineering and Technology, AAU, Godhra.EDU-4: 29:2019:200
Honors and Awards:	i. Achieved Certificate of Appreciation for valuable contribution and outstanding performance as a Member of the Scientific Committee of the 2 <sup>nd</sup> Conference of the Arabian Journal of Geosciences (CAJG), Springer, Springer Nature, held in Sousse, Tunisia on 25- 28 November 2019.

	ii. Received Certificate of Outstanding Reviewing from the <b>Journal of Applied Soft Computing</b> , Elsevier in August 2018.
	<ul> <li>iii. Adjudges the award of outstanding performance during a 10 days training programme on "Strategic Issues in Agricultural Trade under WTO Regime" to be held from January 19- January 28, 2015 at International Agribusiness Management Institute, AAU, Anand, Gujarat.</li> </ul>
	iv. Received the Best Paper Award for the research paper entitled "Impact Assessment of Land Use Change on Runoff Generation using Remote Sensing & Geographical Information System" authored by Mukesh K. Tiwari, M. L. Gaur, Pappu Ram Siyag and Ankush Kumar, presented in the 15 <sup>th</sup> ESRI India User Conference "Geo-Enabling Digital India" held During December 9-11, 2014 at Delhi.
	v. Invited as <b>Visiting Scientist in Department of Biological</b> <b>Engineering, McGill University</b> , Montreal, Quebec, Canada (8 <sup>th</sup> Jul, 2011 to 8 <sup>th</sup> Aug, 2011).
	vi. Awarded the Canadian Commonwealth Exchange Program-Asia Pacific (formerly GSEP) Fellowship to conduct research in the area of flood forecasting using some new tools from the field of neural networks and Fuzzy logic approach at the Intelligent Systems Research Laboratory, College of Engineering, University of Saskatchewan, Canada for 6 months from April 1st, 2010 to September 30th, 2010.
	vi. Best extension article award for an article entitled "મધ્ય
	ગુજરાતનાં વિસ્તારમાં વરસાદનાપાણીનો સંગ્રહ. કૃષિગોવિધા, ૬૯(૨)" in
	Gujarati Language.
Trainings Undertaken:	to 01-07-2020 on "Remote Sensing & GIS Technology and Applications for University Teachers & Government
	<ul> <li>Officials" which was conducted by Indian Institute of Remote Sensing (IIRS),ISRO, Dehradun,.</li> <li>(ii) Attended 6 weeks online MOOC course on "Cartography" organized by ESRI, USA.</li> <li>(iii) Attended 21 days ICAR sponsored CAFT National Training Programme on "Recent Advances in Crop Micrometeorology" attended during 17 September 2019 to</li> </ul>

Organized Training (Centrally	<ul> <li>07 October 2019 at Centre for Advanced Faculty Training (CAFT) in Agril.Meteorology, Department of Agricultural Meteorology, College of Agriculture, MPKV, Pune.</li> <li>(iv)Participated in 21 days summer school on "Geo-Spatial Technologies and Its Applications" held from 20 March to 09 April, 2017 at Centre of Geoinformatics, Tata Institute of Social Sciences (TISS), Mumbai.</li> <li>(v) Participated in 21 days Centre for Advanced Faculty Training (CAFT) Program on "Recent Advances in Survey Design and Analysis of Survey Data using Statistical Software" held from Oct 28-Nov 17, 2014, at Indian Agricultural Statistics Research Institute (IASRI), New Delhi.</li> <li>(vi)Participated in 10 days short course on "Strategic Issues in Agricultural Trade under WTO Regime" from 19<sup>th</sup> to 28<sup>th</sup> January, 2015 held at the International Agribusiness Management Institute (IABMI), Anand Agricultural University, Anand – 388 110 (Gujarat).</li> <li>(vii) Participated in a 5 days training programme on "Sustainable Development and Management of Groundwater Resources" from 16-20 March, 2015 held at College of Agricultural Engineering and Technology (CAET), AAU, Dholakuva, Dahod Road, Godhra-389001.</li> <li>(i) Organized a 08 days Model Training Course as a Course Coordinator On the topic entitled "Hydrological and Crop</li> </ul>
Sponsored) Membership of Professional Societies	<ul> <li>Simulation Modeling in the Arena of Climate Change", during 06-13 February, 2018 Sponsored by Department of Agriculture Cooperation &amp; Farmers Welfare, Ministry of Agriculture &amp; Farmers Welfare, Govt. of India, New Delhi.</li> <li>(ii) Organized a 21 days summer school as Course Co-director entitled "Water and Energy Security in The Arena of Climate Change" sponsored by Information Technology Research Academy (ITRA), MediaLabAsia, Ministry of Electroics and Information Technology, Govt of India, during 17 January-06 February, 2017 at College of Agricultural Engineering and Technology, Anand Agricultural University, Godhra, Gujarat, India.</li> <li>Life member of Indian Association of Soil and Water Conservationists (IASWC), Life Membership NoLM-1595.</li> <li>Life member of Indian Society of Agricultural Engineering, Life Membership No ISAE -LM-10943.</li> </ul>

<ul> <li>Life member of The Institution of Engineers (India) (Membership No: M- 1552508).</li> <li>Life member of Association of Agrometeorologist (LM-1267)</li> </ul>
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