

Department of Agricultural Engineering

Sr. No.	Name	Designation
1	Prof. Vipul T. Shinde	Assistant Professor & Head
2.	Prof. Tejash U. Chaudhari	Assistant Professor



Prof. Vipul T. Shinde

Assistant Professor (Soil & Water Conservation Engineering)

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Educational Qualification

Degree	Discipline	Year of Passing	University
M. Tech	WRDM (Water Resources Development and Management)	2009	IITKharagpur
B.Tech	Agricultural Engineering	2007	CAET, Dapoli

Service Experience till date

Sr. No.	Institute/Office	Designation	No. of years served	Job profile
1.	College of Agriculture, Navsari Agricultural University, Waghai, Gujarat	Assistant Professor	3 years 11 months	Assistant Professor of Soil & Water Engineering at Agricultural Engineering Department

Seminar/Symposia/Workshop/Training attended

Venue	Date	Topic
Event – Conference		
Number attended - 6		
4 th International Conference on Recent Advances in Agriculture and Horticulture Science held at Jodhpur, Rajasthan organized by International Journal of Tropical Agriculture & Serial	December 2016	Sustainable Management of Mine affected Area Soil through Application of Lime, Manure and Fertilizers

publications, New Delhi		
ICEWRE 2012: International Conference on Environmental and Water Resources Engineering organized by WASET at Kuala Lumpur, Malaysia	August 2012	Water Quality Assessment of mine affected Watershed in India Using Water Quality Index and GIS
Annual Convention of Indian Society of Remote Sensing held at MPCST Bhopal, India	November 2011	Rainwater Harvesting Site Identification and Watershed Prioritization Using RS & GIS
ICHWM-2010: International Conference on Hydrology and Watershed Management held at CWR, JNTU Hyderabad, India	February 2010	Time Series Forecasting using ARIMA and X-12-ARIMA Models
Geomatics-09 National Conference, organized by Indian Society of Geomatics at Forest Research Institute (FRI), Dehradun	February 2009	Predicting Soil Erosion in the Konar Basin of Upper DVC Using Remote Sensing & GIS
43 rd Indian Society of Agricultural Engineers (ISAE) annual convention and symposium held at Ranchi, India	February 2009	Soil Erosion Modelling of Upper Damodar Valley Catchment using Remote Sensing and GIS
Event – Workshop		Number attended - 2
College of Agriculture, Navsari Agricultural University, Waghai, Gujarat	November 30 th , 2016	Mushroom Bioprospecting & its role in Women Empowerment & Societal Upliftment in Tribal Area
Organized by National Institute of Hydrology, Roorkee at New Delhi	March 03-04, 2015	WEAP Model Applications in Watershed Management
Event – Training		Number attended - 9
Organized by ICAR - National Academy of Agricultural Research Management	18 Nov- 16 Dec 2016	Four week online MOOC course on “Competency Enhancement for Effective Teaching”
Organized by NCCCS and College of Agriculture, NAU, Waghai	March 14-15, 2016	2 days training programme on “Leadership and Entrepreneurship Development”
Organized by IIT Kanpur and Commonwealth of Learning funded by Ministry of HRD, GoI	March 2016	With Distinction, completed an eight week online course on “GIS in Ag-Essentials and Applications”
Organized by IIT Kanpur and Commonwealth of Learning funded by Ministry of HRD, GoI	March 2016	Eight week online course on “Weather Forecast in Agriculture and Agro-advisory”
Organized by Indian Council of Agricultural Research (ICAR) at CIAE Bhopal	January 05-25, 2016	21 days winter school training on “Advance Tools and Techniques for Precise Input Application Systems”
Organized by Agricultural Engineering Department, NMCA, NAU, Navsari	October 13-14, 2014	2 days training on “Farm Mechanization with Advance Implements and Weather Information for Sustainable Agriculture in South Gujarat”
Organized by IIT Kharagpur	December 2009	Short-term course on “Statistical Modelling of System”
Popular Steel Works and Agricultural	June 2006	One month training on Operation,

Implements Pvt. Ltd., Kolhapur (Maharashtra)		Working Principles, Assembling, Dismantling and Maintenance of Various Agricultural Implements.
Northern Region Farm Machinery Training and Testing Institute, Hisar (Haryana)	June 2005	One month training on Study, Selection, Operation, Maintenance, Trouble shooting and Repair of Tractor and Agricultural Implements, I.C. engine, Straw and Grain Combine Harvesters.
Event – Seminar		Number attended - 2
Organized by Department of Food Processing Technology, AD Patel Institute of Technology, Anand, Gujarat	April 18-19, 2015	National Seminar on “Gujarat: Opportunities in Food Processing”
Organized by N.M. College of Agriculture, NAU, Navsari, Gujarat	May 11, 2015	National Seminar on “Enhancement of Crop Productivity through Physiological Interventions”

Academic Achievements

- Reviewer to **Journal of Hydrologic Engineering (ASCE)**
- Qualified **National Eligibility Test – 2011** in L&WE conducted by Agricultural Scientists Recruitment Board, ICAR, New Delhi
- GATE 2007 (Agricultural Engg.), **All India Rank 102**
- JRF 2007 (Agricultural Engg.), **All India Rank 58**

Awards & honors

- **Young Scientist Award** at 4th International Conference on Recent Advances in Agriculture and Horticulture Science held at Jodhpur, Rajasthan organized by International Journal of Tropical Agriculture & Serial publications, New Delhi in December 2016
- MHRD, GoI fellowship for M.Tech and P.hD at IIT Kharagpur from year 2007-2013

Publications

Journal			
Name of Author(s)	Year	Title of Publication	Journal
Shinde V. T., Tiwari K. N. and Singh M.	2016	Sustainable Management of Mine affected Area Soil through Application of Lime, Manure and Fertilizers	International Journal of Tropical Agriculture, 34(7):2359-2365
Singh M, Singh R, Bhadoriya PBS, Shinde V, Mishra A, Narwade A V, Pradhan S	2016	Integration of Remote Sensing & GIS Catchment Scale Hydrological Modelling in Middle Reach of Mahanadi River Basin using Simplified Coefficient	International Journal of Tropical Agriculture, 34(7):2011-2018

		Model	
Shinde V. T. , Tiwari K. N., Singh M. and Rajendiran S.	2016	Restoration of mine affected area soil for enhanced crop production using diverse fertilizer treatments	Journal of the Indian Society of Soil Science. In Press (Comments incorporated)
K. Nidhi, V. M. Chowdary, K. N. Tiwari, V. Shinde & V.K. Dadhwal	2016	Assessment of Surface Water Potential using Morphometry and Curve Number based Approaches	Geocarto international DOI: http://dx.doi.org/10.1080/10106049.2016.1195889
Patil M and Shinde V	2015	Development of a Ring Transducer for Measuring Tractor Front End Reaction.	Trends in Biosciences 8(1): 206-211
Singh M, Shinde V , Pradhan SK and Shukle K	2014	Hydrologic Modelling of Mahanadi River Basin in India using Rainfall-runoff Model.	Nature Environment and Pollution Technology, 13(2): 385-392
Nandgude S, Ahire D, Mahale D and Shinde V	2014	Flood Forecasting of West Flowing River in Sahydri Ranges Using Probalistic Model.	Trends in Biosciences 7(4): 302-308
Nandgude S, Chavan P, Mahale D and Shinde V	2014	Study of Water Harvesting Potential in Morna River Basin of Maharashtra Using Remote Sensing and GIS	Trends in Biosciences 7(4): 309-315
Nandgude S, Kamble A, Shinde S, Mahale D and Shinde V	2014	Soil Erodibility Estimation for Soil Conservation in Dapoli Region of Maharashtra.	Trends in Biosciences 7(6): 486-490
Nandgude S, Salunkhe J, Shinde S, Mahale D and Shinde V	2014	Rainfall-runoff Modeling of Small Watershed in Konkan Region using Artificial Network.	Trends in Biosciences 7(6): 480-485
Shinde V , Nandgude S B and Singh M	2013	Assessment of Water Quality Around Surface Coal Mine in India.	Nature Environment and Pollution Technology, 12(2): 215-224.
Nandgude S, Shinde V , Mahale D and Singh M	2013	Synthesis of Rainfall Characteristics for Predicting the Erosivity Pattern of Wakavali Region in Maharashtra, India.	Journal of Hydrologic Engineering (ASCE), 18 (1): 92-98.
Sonawane A, Hasan M, Rajwade Y, Desai S, Rajurkar G, Shinde V , Singh D and Singh M	2013	Comparison of Neuro-Fuzzy and Regression Models for Prediction of Outflow of on-farm Reservoir.	International Journal of Agricultural, Environment & Biotechnology, 6(2): 187-193.
Shinde V , Tiwari K N and Singh M	2012	Assessment of Land and Water Resources of Mine Affected Watershed in India using Remote Sensing and GIS.	International Journal of Agricultural, Environment and Biotechnology, 5 (4):

			331-342.
Shinde V , Sharma A, Tiwari K N and Singh M	2011	Quantitative Determination of Soil Erosion and Prioritization of Micro-Watersheds using Remote Sensing and GIS.	Journal of the Indian Society of Remote Sensing, 39(2):181–192.
Singh M, Singh R and Shinde V	2011	Application of Software Packages for Monthly Stream Flow Forecasting of Kangsabati River in India.	International Journal of Computer Applications, 20(3): 7-14.
Shinde V , Tiwari K N and Singh M	2010	Prioritization of micro watersheds on the basis of soil erosion hazard using remote sensing and geographic information system.	International Journal of Water Resources & Environmental Engineering, 2(5):130-136.
Nandgude S, Shinde V , Singh M, Yadav M and Mhatre S	2010	Analysis of Erosion Influencing Characteristics of Rainfall in the Konkan Region of Maharashtra.	Journal of Water Management, 18 (1&2): 11-19.
Nandgude S B, Ramteke G, Patil D, Shinde V and Mahale D M	2010	Dry Spell Analysis for Kharland Management to Mitigate the Climate Change.	International Journal of Climate Change: Impact and Responses, 2(1): 195-208.

Practical Manual(s)

Author (s)	Year	Title of manual
V. T. Shinde	July 2013	Practical manual of Farm Power and Machinery Course (Ag. Engg. 3.2) for students of Third semester, B.Sc (Hons.) Agriculture
V. T. Shinde	January 2014	Practical manual of Fundamentals of Soil & Water Conservation Engineering Course (Ag. Engg. 2.1) for students of Second semester, B.Sc (Hons.) Agriculture
V. T. Shinde	July 2014	Practical manual of Protected Cultivation and Post Harvest Technology Course (Ag. Engg. 5.3) for students of Fifth semester, B.Sc (Hons.) Agriculture
V. T. Shinde	January 2015	Practical manual of Renewable energy Course (Ag. Engg. 6.4) for students of Fifth semester, B.Sc (Hons.) Agriculture

Book(s)

Author (s)	Year	Title of book	Publisher
Shinde V , Tiwari K N and Singh M	2014	Soil Erosion Modeling of Upper Damodar Valley Catchment Using GIS	LAP LAMBERT Academic Publishing Germany

No of Professional Societies Membership :

- Life member (LM-11045) of **Indian Society of Agricultural Engineers (ISAE)**.

No of Official Foreign Visits

- To attend ICEWRE 2012: International Conference on Environmental and Water Resources Engineering organized by WASET at Kuala Lumpur, Malaysia

Research projects handled

Sr. No.	Project title	PI/Co-PI	Level (Departmental/planned)	Year of approval	Status
1	Quantitative Determination of Soil Erosion and Prioritization of Micro-watersheds using Remote Sensing and GIS	PI	Departmental	February 2015	Ongoing
2	Assessment of Water Resources of Navsari and Dang District using Water Quality Index and GIS	PI	Departmental	February 2015	Ongoing
3	Determining feasibility of an on farm reservoir for rice based cropping system in south Gujarat under climatic change scenario	Co-PI	Departmental	February 2015	Ongoing
4	Estimation of wet and dry spells in of different regions in south Gujarat using stochastic analysis of long-term weather data	Co-PI	Departmental	February 2014	Ongoing

No. of students guiding as co-chairman/advisory committee

1. M.Sc. – 1 (Ongoing)

Extra-Curricular Activities

- **In-charge of Training and Placement cell** of College for academic year 2016-17
- **Assistant Rector of boys hostel** since August 2013
- Member of Anti ragging committee of college for consecutive 3 years from 2014-17
- Member of Gender harassment-cum-women development cell of college for year 2016-17
- Member of Student discipline committee of college for year 2016-17
- **Sports advisor** for Students' Representative Council in college for year 2016-17
- Team manager for volleyball team of College during Inter collegiate tournaments at Navsari during November 2016.
- **Co-in charge of Training and Placement cell** of College for academic year 2015-16
- **Gathering advisor** for Students' Representative Council in college for year 2015-16
- **Cultural advisor** for Students' Representative Council in college for year 2014-15

- **Gathering & Outdoor games advisor** for Students' Representative Council in college for year 2013-14
- Delivered series of lectures in Krushimahostav 2015 on advanced technologies & implements in agriculture during 4th– 11th May 2015.
- Delivered lecture in Technology week on topic 'modern implements in agriculture' on 5th Feb 2015, organized by KVK Waghai
- Delivered lecture in Technology week on topic 'farm mechanisation' on 2nd Feb 2015, organized by KVK Waghai
- Delivered series of lectures in Krushimahostav 2014 on topics- Drip and sprinkler irrigation systems, soil erosion control, watershed management, nutrient management etc during 26th May – 1st June 2014.
- Delivered series of lectures in Krushimahostav 2013 on advanced technologies & implements in agriculture during 26th – 31st May 2013.



Mr. Tejash Umedbhai Chaudhari

Assistant Professor (Applied Mathematics)

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Educational Qualification

Degree	Discipline	Year of Passing	University
B.Sc.	Mathematics	2007	S. P. University
B. Ed	General	2008	S. P. University
M. Sc.	Mathematics	2010	S. P. University
Ph.D*	Mathematics	-	VNSGU

* Ph.D thesis is submitted, waiting for viva voice.

Service Experience till date

Sr. No.	Institute/Office	Designation	No. of years served	Job profile
1	Government Polytechnic (Valsad)	Lecturer	1 year	Teaching
2	Government school	Teacher	11 months	Teaching

3	GIDC degree engineering College, Navsari	Assistant professor	1 year 1 month	Teaching
4	Navsari Agricultural University	Assistant professor	3 years 3 months (as on 11.1.17)	Teaching

Seminar/Symposia/Workshop/Training attended

Event	Number attended	Venue	Date	Topic
Workshop	01	UmraKh, Bardoli	09-April-2016	Engineering: Issues, opportunities and Challenges for Development
Training	02	HRD, SP Uni.	02-May-2016	Orientation Programme
		College of Agriculture, Waghai	15- March, 2016	Leadership and Entrepreneurship development

Publications

S.No.	Publications	No. of Publications
1.	Research Paper National Journal	05
2.	Workshop / Seminar / Symposia Proceedings	01

Details of publications

- Chaudhari T. U. & Raval S. C. (2013). Finite element analysis of tower crane based on FEM. *Recent thought – The referred International Journal*, 4(3), 60-62.
- Chudhari, T. U. & Patel, D. M. (2015). Finite element solution of Poisson's equation in a homogeneous medium. *International Research Journal of Engineering & Technology*, 02(09), 674-679.
- Chudhari, T. U. (2016). Solution of Burger's equation for an incompressible fluid with different viscosity using Galerkin Finite Element Method. *EIOCD*, 1-7.
- Chaudhari, T. U. (2016). Numerical solution of Inviscid Burgers' equation by using Galerkin Finite element method. *International Research Journal of Engineering & Technology*, 03(08), 1646-1648.
- Chaudhari, T. U. (2016). Finite element solution of Korteweg-de-Vries-Burgers equation. *International Journal of Applied Science & Engineering technology*, 1-6.