

Dr. VAIBHAV RAJIV SAPKAL

**B.E. (Civil Engineering), M.Tech. (Civil Engineering), Ph.D. (Civil Engineering,
IIT Roorkee)**

ASSISTANT PROFESSOR

SCHOOL OF CIVIL ENGINEERING, SHRI MATA VAISHNO DEVI

UNIVERSITY (SMVDU), KATRA, (J&K)

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- 1. Objective - To Excel in Teaching Training and Research**
- 2. Academic and Professional Qualification**

Examination	Board / University	Branch	Yr. of Passing
Ph.D	Indian Institute of Technology Roorkee, India	Civil Engineering	2018
M.Tech.	S.V.National Institute of Technology Surat (Gujarat)	Civil Engineering (Environmental Engineering)	2011
B.E.	Government College of Engineering Amravati (Affiliated to S.G.B. Amravati University)	Civil Engineering	2008

3. Present Position

Working as an Assistant Professor, School Of Civil Engineering, Shri Mata Vaishno Devi University (SMVDU) (Approved Under 12(b) & 2(f) of UGC Act 1956), Katra, (J&K) from 11 September 2018 to till date.

4. Under Graduate Project

Title: Design & Analysis of Multistory Building Using Software STADD-PRO

5. Post Graduate Project

Title: Evaluation Of Membrane Separation Technique & Anaerobic Treatment Using MSW Landfill Leachate

6. Post Graduate Group Project

Title: Quality Assessment of 150 MLD Katargam Water Treatment Plant, Surat.

7. Ph. D. Thesis Title :- Treatment of Municipal Solid Waste Leachate

(Ph.D. research work jointly carried out at Department of Civil Engineering, Indian Institute of Technology (IIT) Roorkee, India and National Environmental Engineering Research Institute (*NEERI*) Nagpur, India)

8. Sultanate of Oman Experience: - As a Analyst – Wastewater Treatment from 21-10-2011 to 01-11-2011 for Project entitled ‘ Harnessing Clean and Green Energy via Integrated Treatment of Industrial and Domestic Waste Water’ funded by Research Council , Oman at Sohar University, Sohar, Oman

9. Publications (Journal and Conferences)

Sr. No	Title of paper	Title of conference	Date of Publication	Place & Affiliation
1.	Water Treatment of Surat City	National Conference On Advances In Environmental Engg.	10-12 March 2010	Pravara Rural Engg. College Loni University of Pune

2.	Optimization of Hybrid Anaerobic and Membrane Treatment of MSW Landfill Leachate	International Conference On Environment And Industrial Innovation (ICEII 2011)	17-19 June 2011	Kuala Lumpur MALAYSIA APCBESS
3.	Development Of Reverse Osmosis Technique For Treatment Of Highly Contaminated Municipal Solid Waste Landfill Leachate	ACHEMA 2012	18 -22 June 2012	Frankfurt Main, German DECHEMA
4.	Development of hybrid technique for treatment of landfill leachate by combining anaerobic and membrane techniques	ACHEMA 2012	18 -22 June 2012	Frankfurt Main, German DECHEMA
5.	Development of Hybrid Anaerobic Digestion and Membrane Separation Technique for Treatment of Municipal Solid Waste Landfill Leachate	The 5th International Conference on Solid Waste Management	2015	Indian Institute of Science, Bangalore, India
6.	Biogas Production Potential Of Municipal Solid Waste Landfill Leachate – A Lab Scale Study	CHEMIX' 19 (A National Conference on Intra- and Inter Disciplinary	30-31 March 2019	Visvesvaraya National Institute of Technology, Nagpur

		Blend of Chemical Engineering)		
7.	Membrane Based Integrated Solution For Flower Waste From Worship Places Along With Environmental Protection	CHEMIX' 19 (A National Conference on Intra- and Inter Disciplinary Blend of Chemical Engineering)	30-31 March 2019	Visvesvaraya National Institute of Technology, Nagpur
8.	Enhancing strength properties fly ash based geo polymer concrete with ultra fine slag at ambient temperature	6th National Conference on Engineering Research and Applications. ERA – 2019.	29 March 2019	Rayatbhara University, Mohali
9.	Development of hybrid anaerobic digestion and membrane separation technique for treatment of municipal solid waste landfill leachate	3rd International Conference on Thermal Power : Chemistry and Sustainable Environment (Poster Presentation)	5 June 2019	Chandrapur Super Thermal Power Station (Govt. of Maharashtra u/t)
10.	Waste treatment of highly contaminated MSW leachate and energy generation as a byproduct	International E-Conference on Recent Transformations in Chemical and Textile Technology	24- 25 August 2020	University Institute of Chemical Technology, Kavayitri Bahinabai Chaudhari North

				Maharashtra University, Jalgaon
11.	Treatment of Municipal Solid Waste Leachate: A Review	Journal of Environmental Science and Engineering , ISSN 0367 – 827 X , Volume 58 NO. 2	April 2016	CSIR – National Environmental Engineering Research Institute Nagpur , India.

10. Expert Lectures Delivered :

Sr. No	Title of the seminar/conference	Title of the Talk	Date	Organizing agency
1.	Short Term Training Programme	Advance Technology for Conservation of Energy and Sustainable Development	18- 22 April 2016	Department of Chemical Engineering Jawaharlal Darda Institute of Engineering and Technology, Yavatmal.
2.	One Week AICTE FDP- (Present Scenario of treatment of waste in India: Challenges, Issues and new techniques of treatment)	Various Treatments of Municipal Solid Waste and Leachate	13-25 November 2017	Department of Civil Engineering, Sanjivani college of Engineering, kopargaon, Ahmednagar.
3.	One Week AICTE FDP- Recent Trends in Process Intensification	Various Methods for Treatment of municipal solid waste and landfill leachate	1- 14 December 2017	Department of Chemical Engineering of Pravara rural Engineering College, Loni.
4.	One Week AICTE _QIP FDP on Waste to Energy – A Green Approach Solar Energy	Treatment of municipal solid waste and landfill leachate	3 -7 July 2019	Department of Chemical Engineering, Shri Guru

				Gobind Singhji Institute of Engineering and Technology, Nanded (Maharashtra)
5.	Faculty Development Program on Energy and Power Systems	Municipal solid waste and leachate management for India : Status, challenges and energy generation from waste	05- 09 August 2019	School of Energy Management, Shri Mata Vaishno Devi University Katra (J&K)
6.	One week National Workshop on ‘Civil Engineering for Green and Inclusive Sustainable Development	Municipal solid waste and leachate management for India	16 -20 September 2019	Department of Civil Engineering, Rajkiya Engineering College, Ambedkar Nagar (U.P.)
7.	One week National Workshop on ‘Civil Engineering for Green and Inclusive Sustainable Development	Treatment of waste by waste with zero discharge	16 -20 September 2019	Department of Civil Engineering, Rajkiya Engineering College, Ambedkar Nagar (U.P.)
8.	One week short term training program on ‘Recent Trends in Civil Engineering’	Impact of Municipal Solid Waste on Environment in India	13-17 November 2019	Department of Civil Engineering, Rajkiya Engineering College, Ambedkar Nagar (U.P.)
9.	Attended Selection Committee meeting (As a subject expert) of Civil Engineering on 09-07-2019 at University of Jammu, Jammu			

11. Conferences, workshop, seminar attended

S.No.	Title of Conference/Seminar etc.	Date(s) of the event	Organized by
1.	German Workshop on Management Of Water Supply And Wastewater System	2009	Indian Institute of Technology, Mumbai India
2.	Indo-German Conference on Cities In The Era Of Climate Change	17-18 January 2011	Indian Institute of Technology, Mumbai India
3.	Enviro 7vision 2010	25-27 November 2010	IIT Bombay, Mumbai
4.	International conference on Sustainable Water Resource Management and Treatment Technologies	19-21 January 2011	NEERI Nagpur
5.	Young Water Professional Programme	22 January 2011	NEERI Nagpur
6.	International workshop on Advances in Disinfection Technologies	9 February 2011	NEERI Nagpur
7.	Modeling of Environmental Systems	28- 29 March 2011	Pravara Rural Engineering College, Loni
8.	Management and Valorisation of Industrial and Agricultural Wastes	12 October 2011	IIT Bombay
9.	Laboratory Methods for Water & Wastewater Analysis and Air Quality Monitoring	20-24 May 2019	Civil Engineering Department, Vivesvaraya National Institute of Technology (VNIT),Nagpur
10.	One day Workshop on Scilab	4 May 2019	IIT Bombay Mumbai

11.	International Conference on Digital Pedagogy	1-2 April 2019	Ministry of Human Resources and Development – MHRD, and All India Council of Technical Education
12.	Microsoft Workshop on Transforming education through technology	3 April 2019	Ministry of Human Resources and Development – MHRD, and All India Council of Technical Education
13.	One week Professorial Development Training under TEQIP III	26 - 30 August 2019	Indian Institute of Management Tiruchirappalli
14.	One week FDP on Recent Advances in Civil Engineering	2 - 7 June 2020	Civil and Environmental Engineering Department, Veermata Jijabai Technological Institute, Mumbai
15.	International Symposium on Environmental Vedic Wisdom	5- 6 June 2020	Maharaj J P V Arts, Commerce and Shri V K K Science College Dhadgaon, Nandurbar.
16.	National Level One Day Awareness Workshop on “Outcome Based Education and Accreditation” for Engineering Colleges	11 September 2020	G H Raison Institute of Engineering and Technology, Nagpur.

12. Best Paper Award

Paper : Membrane Based Integrated Solution For Flower Waste From Worship Places Along With Environmental Protection

Secured Best Paper Award, 2 nd position for in CHEMIX' 19 (A National Conference on Intra- and Inter Disciplinary Blend of Chemical Engineering) held on 30-31 March 2019 in Visvesvaraya National Institute of Technology, Nagpur

13. Workshop organized

1. Coordinator of 1st National Conference on Recent Advances in Civil Engineering organized by Jawaharlal Nehru Technological University (JNTUH), Hyderabad and Shri Mata Vaishno Devi University (SMVDU), Katra, J&K on 5 July 2019, at of Civil Engineering, JNTUH Hyderabad.
2. One Day National Workshop on 'Disaster Management' jointly organized by Jawaharlal Nehru Technological University (JNTUH), Hyderabad and Shri Mata Vaishno Devi University (SMVDU), Katra, J&K on 26 September 2018 at Department of Civil Engineering, JNTUH Hyderabad.
3. Coordinator of Workshop on STAAD Pro (Analysis and Design Software) organized on 17-18 September 2019 at Department of Civil Engineering, Shri Mata Vaishno Devi University (SMVDU), Katra, J&K.
4. Two days workshop on STTAD-PRO Organized by School of Civil Engineering, SMVDU as a coordinator on 17-18 September 2019
5. Twinning arrangement under TEQIP III with JNTUH Hyderabad for completion of 10% syllabus at SMVDU on 9-10 November 2019
6. Twinning arrangement with IIT Jammu for conducting laboratory experiment of 4th Sem Students at IIT Jammu in February and March 2020.
7. Organized Webinar on Air Pollution and Control is organize at SMVDU on 15 – 12 – 2021
8. Organized Webinar on on Systems Engineering for Wastewater Treatment and Asset Management at SMVDU on 17 – 05 – 2022

14. Session Chair

1. Session Chair of 6 th International Conference on Recent Trends and Advancements in Engineering and Technology (ICRTAET).
Sponsored By – SMVDU – TBIC and TEQIP – III on 17- 18 January 2020
Organized by – Shri Mata Vaishno Devi University Katra, Jammu and Kashmir.

2. Session Chair of 1st National Conference on Recent Advances in Civil Engineering organized by Jawaharlal Nehru Technological University (JNTUH), Hyderabad and Shri Mata Vaishno Devi University (SMVDU), Katra, J&K on 5 July 2019, at of Civil Engineering, JNTUH Hyderabad.

15. Book Published

Title of Book - Management of Solid Waste for Protection of Environment: A New Approach

(ISBN 978-3-659-58577-7)

Publisher - Lambert

16. Membership

1. Member of Indian Association For Environmental Management, NEERI Nagpur
2. Associate Member of The Institution of Engineers (India)

17. MOOCs Courses

S. no.	Date of training	Course title	University / Institute	Outcomes
1	July to November 2019	Integrated Waste Management for a Smart City	IIT Kharagpur	Completed
2	January to March 2020	Electronic Waste Management - Issues And Challenges	IIT Kharagpur	Completed
3	01 -09 – 2021 to 31 – 10 – 2022	Orientation Towards Technical Education and Curriculum Aspects	National Institute of Technical Teachers	Completed

			Training and Research, Chennai	
4	01 -09 – 2021 to 31 – 10 – 2022	Professional Ethics & Sustainability	National Institute of Technical Teachers Training and Research, Bhopal	Completed
5	01 -09 – 2021 to 31 – 10 – 2022	Communication Skills, Modes & Knowledge Dissemination	National Institute of Technical Teachers Training and Research, Chandigarh	Completed
6	01 -09 – 2021 to 31 – 10 – 2022	Instructional Planning and Delivery	National Institute of Technical Teachers Training and Research, Bhopal	Completed

18. . Involvement in Management of Institutional Development

A. Laboratory Development / School Activity

1. Started PG Course, M.Tech. Environmental Engineering

- Laboratory Development / School Activity

1. Surveying Laboratory

2. Environmental Engineering Laboratory

Substantial efforts were made in preparing list of equipment's, addresses of suppliers, budget and budgetary provisions and Purchas Process

- Member Secretary of Board of Studies of Civil Engineering, SMVDU
- Member of SWAYAM Committee, SMVDU Katra
- Time Table Coordinator of SoCE, SMVDU Katra
- Member of Academic Affairs Committee, SoCE
- Faculty Advisor for Cultural Committee of SoCE, SMVDU Katra
- Internal Member of School Academic Integrity Panel
- Registration coordinator for 5th and 7th Sem of SoCE for year 2021-22
- Prepared Corse Booklet of B.Tech. Civil Engineering for SoCE
- Member of School Purchas Committee

B. Participation in University Activities

- Member of Engineering Affairs committee of SMVDU
- Member for Aquagard/Water Filter Repair committee of SMVDU
- Member of Green Audit committee of SMVDU
- Member of Stock Verification of Library Books in SMVDU Committee
- Member of Green Audit Committee SMVDU

19. References

1. Prof. Dr. Munish Kumar Chandel

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2. Dr. Atul N. Vaidya

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