

# Curriculum Vitae

---

## Dr. Rajesh Vijaykumar Kherde

**Principal**, D.Y. Patil School of Engineering Academy  
Ambi, Pune.

**Ph.D.(Tech) - Civil, M.E-Civil, B.E-Civil.**

Cell: +91 7498976954, +91 9922460820

A2/13, Shri Shwet Shwetayan Building, Sahyandri Colony,  
Vidya Nagar, Pimple gurav, Pune-411061, Maharashtra.

Email Id: rkherde@gmail.com

<https://github.com/rkherde/RVK-PHS>

**Specialization : Water resources management/Hydrology**

## Summary:

---

- **Ph.D. – Civil Engineering**, Mumbai University  
[Studies on River Basin Flow Modeling Using **Geographical Information Systems (GIS).**]
- M.E-Civil Engineering (Water Resources Management), Gujrat University (**Gold Medalist**).
- B.E-Civil Engineering, Amravati University.
- **24 Year** of teaching experience
- **8 Years** of administrative experience as Principal & HOD
- **Gold medalist** in post graduate studies.

## Career Objective:

---

To establish a career in an innovation driven environment that encourages research activities in the field of Civil Engineering. Use my skills and knowledge in the best possible way to achieve institutional goals. Acquire a responsible job with an opportunity for professional challenges.

## Current & Past Profile:

---

I am currently working as Principal of D.Y.Patil School of Engineering Academy.

- Developed “Guardian Faculty Member Handbook”, a handbook of Menter-Mentee system for recording data of a student throughout his stay (4 years) in an engineering college.

- Started DYPSOEA and BOSCH Joint Certification Center in campus. This is an advanced training center of Bosch for conducting different certification courses for students, teachers and industry professionals. Joint certification program offer six different training modules.

I have worked as **Professor & HOD** in the department of civil engineering in D.Y. Patil Institute of Engineering and Technology. I was **Overall NAAC** Coordinator and coordinator for **IQAC**.

I have worked as a **Professor & HOD - Civil** in Sandip institute of Technology & research Centre (SITRC). The Job profile includes teaching and research. I have also worked as **BOS member** of civil engineering course in faculty of engineering Sandip University, Nashik.

I have worked as a **Head, Department of civil Engineering**, Symbiosis Institute of Technology, Pune from July 2010 to June 2013. Following responsibilities were handled while working as HOD-civil:

#### **Responsibilities Handled:**

1. Planning of teaching- learning process, blow ups of syllabi and exhaustive Lab Manuals, etc.
  2. Ensuring engagement of all classes by teachers of the department, coverage of required syllabus up to first and second Mid Semester Examinations and End Semester Examination; arrangement of alternative teacher in the event a teacher goes on leave and maintenance of course files
  3. Planning and organization of special lectures by experts from academics and Industry
  4. Industry-Institute Interaction through industrial visits of students
  5. Upkeep of laboratories
  6. Identification of weak students and organizing remedial classes
  7. Smooth functioning of the department
  8. Timely information to parents and the Director for students needing counseling & help
- Developed syllabus of B.Tech – Civil engineering and M.Tech- Geoinformatics and surveying Technology while working at Symbiosis Institute of Technology.
  - Apart from administrative responsibilities, I have also worked on committees like Examination, Admissions, Academic Audits, Anti ragging committee, Disciplinary committee.
  - I was also nominated by vice chancellor as a **university observer** for admission process of Symbiosis institute of telecom & Management.
  - I have Received performance related incentive of Rs. 3000/Month for consecutive three years 2013-14, 2014-15 & 2015-16.

## Academic Profile:

| Exam             | Institute                              | Board/Univer<br>sity   | Year of<br>Passing | Percentage  |
|------------------|--|------------------------|--------------------|---|
| Ph.D. -<br>Civil | Sardar Patel College<br>of Engineering | Mumbai<br>University   | 2015               | Three international<br>Publications in<br><b>Scopus indexed</b><br>journals with one<br>national journal<br>publication and two<br>conference papers. |
| M.E-<br>Civil    | L.D. College of<br>Engineering         | Gujrat<br>University   | 1997               | 73.25% <b>Gold<br/>Medalist</b>   |
| B.E-<br>Civil    | College of<br>Engineering Badnera,     | Amravati<br>University | 1995               | 67.33%  |

## Experience: 23 Years

| Institute  | From       | To         | Designation  |
|--|------------|------------|--|
| D.Y.Patil School of<br>Engineering Academy                       | 18/01/2019 | Till Date  | Principal  |
| D.Y. Patil Institute of<br>Engineering and<br>Technology         | 10/01/2018 | 17/01/1019 | Professor  |
| Sandip Institute of<br>Technology & Research<br>Centre (SITRC)   | 30/06/2016 | 9/01/2018  | Professor  |
| Symbiosis Institute Of<br>Technology,<br>Lavale, Pune            | 1/07/2010  | 02/6/2016  | Associate<br>Professor &<br>Assistant<br>Professor |
| International Institute Of<br>information Technology,<br>Pune    | 1/11/2006  | 30/06/2010 | Assistant<br>Professor                             |
| Thadomal Shahani Engineering<br>College, Bandra(West),<br>Mumbai | 7/10/1997  | 31/10/2006 | Senior<br>Lecturer &<br>Lecturer                   |

## Achievements:

---

- Recipient of the **Gold Medal** awarded by Gujarat Institute of Civil Engineers and Architects for standing first in the studies of M.E - Civil.
- Qualified GATE - 95 with 76.52 percentile.

## Subjects Taught:

---

**UG :** Engineering Mechanics(15 years), Strength of Materials(15 years), Fluid Mechanics-I & II (3years ), Pre-stressed cement concrete(3 years), Structural Analysis- II (once), Basic Civil & Environmental Engineering, Project Management & Engineering economics.

**PG:** Computational Mechanics and Numerical Mathematics, Basic Fluid Mechanics, Environmental Fluid Dynamics

## Technical Skill Set:

- **Civil Engineering:** Water Resources Engineering, Engineering Mechanics, Strength of Materials, Fluid Mechanics, Pre-stressed concrete Design.
- **Geographic Information systems:** Delineation of river basins & stream network from DEM analysis. Preparation of Soil maps & Land use land cover maps using remote sensing data.

## Computer Skills:

---

Languages: Visual basic 6

Database: oracle, MS Access

Application: MS Office

GIS: Arch Info 10.1, QGIS

## Workshop/ Seminar Organized

---

- Member, Organizing committee, Indo-Russian Workshop on High Energy Density Physics.
- Member, Organizing, committee, Symposium on Novel Ideas in CFD (SONIC – 07 & SONIC-09).
- Coordinator, Oil & Gas Engineering Workshop OGETECH- 08.
- Coordinator, Seminar on Emerging Trends in CFD.

## Guest Lectures Delivered

---

- Delivered Guest Lecture on 'Finite Difference Methods in CFD' at Department of chemical Engineering, Priyadarshni Institute of Engineering and Technology, Nagpur.
- Delivered Guest Lecture on 'Introduction to CFD Modeling' at Department of Mechanical Engineering, Ram Meghe Institute of Technology & Research, Badnera, Amravati.
- Delivered Guest Lecture on 'CFD - An emerging Technology' at Department of Mechanical Engineering, Radhika Tai Pandav college of Engineering, Nagpur.

## Workshops/Seminars/FDP Attended:

---

- Attended one month refresher course on “Industrial Training for Engineering Teachers” & DACUM – Designing a curriculum” organized by Govt. College of Engineering Amravati under STTP, ISTE on 07 – 26 June 2004 & 28 June – 02 July 2004.
- International conference on recent advances in engineering, technology and management (SPICON2012), May 31st – June 02<sup>nd</sup>, 2012.
- Faculty development program (FDP) on “Animation for better educational communication” organized by symbiosis teaching learning resource centre, SIU, on 09-10 February 2016.
- A work shop on “Road safety and road accident prevention” conducted on 19<sup>th</sup> and 20<sup>th</sup> July 2013 jointly by Symbiosis International university & National Highway authority of India.
- Faculty development program (FDP) on “Optimization Techniques” organized by symbiosis teaching learning resource Centre, SIU, on 18<sup>th</sup> December 2013.
- Two days state level workshop “ Industrial Fluid Power & Its application” organized by Department of mechanical engineering, Sinhgad Institute of Technology, lonavala on 14<sup>th</sup> & 15<sup>th</sup> February 2012.

## Publications:

---

### International Journal Papers:

1. Kherde R.V., Sawant Priyadarshi (08/2013) Integrating geographical information systems (GIS) with hydrological modelling -applicability and limitations. International Journal of Engineering and Technology, 5(4) : 3374-3381 (**Scopus**; ISSN: 0975-4024).
2. Kherde Rajesh, Sawant Priyadarshi (01/2014) Topmodel parameter optimization using monte carlo simulation and generalized likelihood uncertainty estimation (GLUE) package. Journal of Environmental Hydrology, 22(1) : 1-12 (**Scopus**; ISSN: 1058-3912).

3. Kherde Rajesh, Sawant Priyadarshi (05/2014) A GIS Based Variable Source Area Model for Large-scale Basin Hydrology. Research Journal of Applied Sciences, Engineering and Technology, 7(18) : 3797-3802 (**Scopus**, ISSN: 2040-7467).
4. Kherde R.V. (5/2016) Rainfall runoff modeling – Modellers Guide, International Journal of Applied Engineering Research, 11(3): 1900-1907 (**Scopus**; ISSN: 0973-4562).
5. Kherde R.V. and Sumana Sahoo(1/2017) Modeling Reference Evapotranspiration with Wind Speed and Relative Humidity Data, International Journal of Engineering and Technology, 8(6) : 2815-2823 (**Scopus**; ISSN: 0975-4024).
6. Kherde, R. and Sawant, P. (2018) "Parameter Optimization, Uncertainty Estimation and Sensitivity Analysis in Hydrological Modeling", *European Journal of Engineering Research and Science*, 3(11), pp. 66-72. doi: 10.24018/ejers.2018.3.11.907.

#### **National Journal Papers :**

7. An Analytical Model for Sub grid Force-Equilibrium Approach in Submerged Vegetative Channel, Rajesh Vijaykumar Kherde & Dr. Priyadarshi H Sawant, *Recent Trends in Civil Engineering & Technology Volume 1, Issue 1, Aug, 2011, Pages 1-8* (ISSN: 2321-6476)
8. "FEASIBILITY CHECKING OF FACTORS FOR APPLICATION OF PUBLIC-PRIVATE PARTNERSHIPS IN REAL ESTATE FOR PRIVATE CONSTRUCTION FIRM", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.6, Issue 5, page no.28-33, May-2019
9. "PROBABILITY ANALYSIS OF PROJECT SCHEDULE USING MONTE CARLO SIMULATION IN EXCEL", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.6, Issue 5, page no.106-110, May-2019

#### **Conference Papers:**

10. Use of geographic information system (GIS) for water Resources planning and management, Rajesh Vijaykumar Kherde & Dr. Priyadarshi H Sawant, Proceedings of the National Seminar on Water Resources Management in Andhra Pradesh (WRMAP) ,March 29-30 2011,GITAM University, Pages 194-204
11. Topography-based hydrological modelling in the wardha drainage basin, Rajesh Vijaykumar Kherde & Dr. Priyadarshi H Sawant, Proceedings of international conference on recent advances in engineering, technology and management (SPICON2012), May 31st – June 02nd , 2012.

## Journal Papers Reviewed:

### Springer – Water Resources management

1. Variable stream flow contributions in nested sub watersheds of a US Midwestern urban watershed. – Liang Wei et al. (2017)
2. Multi Criteria Decision Making in Selecting Stormwater Management Green Infrastructure for Industrial Areas Part 1: Stakeholder Preference Elicitation. – Jayasooriya VM et. Al. (2018)
3. Water-saving Efficiency of Counterweight Spheres Covering Plain Reservoir in Arid Area - Ke-Wu Han et al. (2018)
4. Long-term changes in the course of ice phenomena on the Oder River along the Polish-Germany border - Włodzimierz Marszelewski and Bogusław Pawłowski

## Conference Papers Reviewed:

Reviewer for International Conference on Insights in Mechanical and Civil Engineering (ICIMCE) 2019 held during 26<sup>th</sup> and 27<sup>th</sup> April 2019 at D Y Patil Institute of Engineering & Technology, Ambi, Pune.

## Patents:

1. A patent on “Smart Charging  
Application Number: 201721022208, Application Date: 24.06.2017  
Publication Number: 201721022208, Publication Date: 28.12.2018
2. Road turn cautioner (App. No. 201821003997 )
3. Colour coded staff (App. No. 201821003996 )
4. Centre point marker (App. No. 201821003995 )

## Personal Details:

|                      |  |
|----------------------|--|
| <b>Name</b>          | <b>Dr. Rajesh. V. Kherde</b>                             |
| <b>Email Id</b>      | <a href="mailto:rkherde@gmail.com">rkherde@gmail.com</a> |
| <b>Mobile No.</b>    | +919922460820  |
| <b>Date Of Birth</b> | 12 <sup>th</sup> July 1972                               |