



Dr. Prashant S. Bokare

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Present Address

Quarter No. T-102,
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Complex, OP Jindal
University, Gharghoda
Road, Punjipathra,
Raigarh, C.G. 496109,
India.

Dr. Prashant S. Bokare

B.E., M.E. (VNIT Nagpur)

Ph.D. (IIT Guwahati)

About me

I hold Ph.D. in Traffic Simulation (Civil Engineering) from Indian Institute of Technology Guwahati, Guwahati, Assam, India. My technical focus area consists of Data Analysis, Probability and statistics. With 32 years of experience in academics and administration of Engineering Institutions, my renewed focus is on **Smart Villages** through the Artificial Intelligence, Machine Learning and Data Science.

Besides routine administration, I successfully lead the University to digitally transform the campus by implementing;

- Google GSuite Cloud
- ERP based academic management
- Moodle
- Library Management System through ERP
- Plagiarism tool like URKUND
- Inflibnet, Shodhganga, ShodhSindhu
- Robust and reliable wired and wireless network of CCTV camera system
- Acquiring resources like ASCE, ASME, IEEE, ET Case studies (all free of cost from Inflibnet)

At present I am heading;

- NAAC team
- Purchase Committee
- Discipline Committee
- Anti-Ragging Committee

As of now, I am working on;

- Reorienting curriculum to latest technologies (AI, ML, DS)
- Application of Data Science in Decision Making (Doing a course with IIM Raipur)
- Finite Element Analysis of Steel Sleepers
- Accident Prediction Models (CGCOST funded project)

I was instrumental in achieving following during AY 2019-2020;

- **Swachchata Award** for OPJU, **6th rank nationally among 739 Universities and Colleges**
- Winning 04 grants from **National Commission of Women**
- Mobilizing **Chhatra Vishwakarma Awards** (underway)
- Mobilized **National Institutional Ranking Framework, NIRF**, data submission

I have published number of papers in journals and conferences, published one patent and delivered number of guest lectures. **At present working on Self Study Report (SSR) of NAAC at OP Jindal University.** I taught 16 courses of Civil Engineering including programming languages (at UG, PG and Ph.D. level) and 03 courses of MBA, established 04 laboratories, guided several live U.G. and P.G.projects. Fond lover of Hindustani Classical Music and voracious reader.

Experience

July 2018 to till date

Dean School of Engineering, OP Jindal University (promoted by **Jindal Steel and Power Ltd. (JSPL)**), Punjipathra, Raigarh, C.G.

August 2013 -July, 2018, (05 Years)

Principal, RSR Rungta College of Engineering and Technology, Bhilai, C.G.

January 2008 - August 2013 (06 Years)

Professor and Dean Academics at B. D. College of Engineering Sevagram, M.S.

July 1998 - January 2008 (09 Years)

Lecturer, Selection Grade at B. D. College of Engineering Sevagram, M.S.

October 1993 - July 1998 (05 Years)

Lecturer, Senior Grade at B. D. College of Engineering Sevagram, M.S.

August 1987 - October 1993 (06 Years)

Lecturer at B. D. College of Engineering Sevagram, M.S.

Recent Skill Certifications

2019,

Certificate Course in Introduction to Artificial Intelligence, NPTEL

2019,

Certificate Course in Python for Everybody, Coursera

2019,

Certificate Course in Data Science, Udemy

2019,

Certificate Course in Deep Learning, Coursera

Qualifications

2013,

Ph.D., Indian Institute of Technology Guwahati, Guwahati, Assam, India
NPTEL

1993,

Master of Engineering, NIT, Nagpur, erstwhile, VRCE, NAgpur University
Nagpur.

1987,

Bachelor of Engineering, Walchand College of Engineering Sangli, M.S.
(Shivaji University Kolhapur, M.S.)

1984,

Diploma in Civil Engineering, Rural Polytechnic Wardha M.S.

Patent

Title - GAMMA RADIATION SHIELDING COMPOSITE MATERIALS

Patent Application No - 201921008367 , Status - Published

Project in Hand

Title-Crash (Accident) Prediction Model (CPM) for Durg-Raipur Four-
Lane Highway

Funding Agency - Chhattisgarh Council of Science and Technology (CG-
COST), Raipur, C.G.

Funding Amount - Rs. 500000/- (Rs. Five Lakh)

Editorial Board Member

Member of International Editorial Board of International International
Journal of Traffic and Transport Engineering, Belgrade, Serbia

Major Achievements As Head of the Institute

Forte

- Visioning
- Operations and Execution of Academic System

Registration Process

- A date of registration to semester is announced to students while they go for vacation
- A registration form is filled by the student and submitted to department along with fees paid receipt
- Roll number is allotted to student.
- Outcome:
 - Fees recovery is well planned and class attendance is good from Day-1

Major Achievements As Head of the Institute, Continued

Start-IC Club (Start-up Incubation club)

- Club of students, entrepreneurs and faculty members
- Frequent Idea Exhibitions
- Healthy and fierce discussions
- Preparation of Project proposals
- Outcome:
 - Two startups could see light of the day

Industry Interface

- Fifteen industries were included in interface
- Students were trained on specialized machines like CNC, automated mechanisms etc
- Few students got paid internships
- Outcome:
 - No of employable of students improved

Inception of Project Exhibition for Students AVISHKAAR

- In first edition of Avishkaar, we could display 70 projects.
- In second edition 250 projects.
- Outcome:
 - Students learn how to crack the problem
 - Students learn to prepare and present power point presentations
 - Students enjoy the process

Curriculum Revision

- Revised First Year Curriculum with following focus
 - Artificial Intelligence introduced from first semester
 - Data science is introduced as minor for all non-CSE branches from first semester
 - Project based learning is introduced
 - Spoken communication is a part of curriculum at every semester

NAAC Preparations

- Formulated IQAC of the University
- Submitted IIQA which was approved by NAAC
- Preparations for detailed SSR are on the way

Stakeholders' Feedback System

- Students' Feedback System
 - Students submit feedback on difficulty level and level of understanding of subject in class room instead of feedback on teachers
 - Students submit objective feedback on systems devised for them in measurable terms
 - The process frequency is fortnightly
 - Outcome
 - * Since the feedback is not on teacher, students submit fearless and impartial feedback
 - * The feedback system becomes more objective
 - * Difficulty level of subject is immediately known and remedial measures can be immediately taken in a fortnight and results of improvement is reflected in feedback of next fortnight.

Stakeholders' Feedback System, Continued

- Parents' Feedback
 - Minimum five parents are invited every day randomly
 - Feedback committee meets the parents and request the feedback on services including teaching and placement efforts
 - Rectifying measures are devised on the basis of feedback
 - Outcome:
 - * Parents act as part of system and give a wide mouth publicity to college efforts
 - * Feedback of parents helped us to improve the system

NAAC Accreditation

- Submitted Institutional Information for Quality Assessment (IIQA) to NAAC. It was approved.
- Completed and submitted Self Study Report with all compliance
- Completed Students' Satisfaction Survey (SSS)
- Visit of NAAC team awaited

Conferences, Workshops, Seminars Etc.

- Conducted six (06) funded conferences
- Conducted five (05) funded workshops

Formulation of Standard Operative Procedure (SOP) and System in Place (SiP)

- Academic Manual
- Library Manual
- HR Manual
- Sports Manual
- Accounts and Audit Manual
- Purchase Manual
- Stores Manual
- Hostel Manual
- Complaint Redressing Mechanism
- OP Jindal University (OPJU) Policy Document for
 - Adjunct Professor
 - Long Term Internships
 - Guest Lecture, Workshops, Symposiums, Hands on Practice Workshops
- Regulations framed for OPJU
 - PhD regulation
 - MTech Regulation revised
 - Purchase Procedure Regulation

Positions Held

Total Experience - 32 years

2018 July - Till Date

Dean, School of Engineering, OP Jindal University, Raigarh, Chhattisgarh, India.

2013 August - 2018 July

Principal, RSR Rungta College of Engineering and Technology Bhilai, Chhattisgarh, India.

2013

In-Charge of Second Shift at Bapurao Deshmukh College of Engineering Sevagram Maharashtra.

2008-2013

Dean Academic at Bapurao Deshmukh College of Engineering Sevagram Maharashtra

2012

Coordinator WHEEL-SPIN 2012, National Level Student Techfest

2011

TEQIP-II Coordinator at Bapurao Deshmukh College of Engineering Sevagram Maharashtra.

2012

Organizing Secretary, First International Conference at Bapurao Deshmukh College of Engineering Sevagram Maharashtra

2012

Organizing Secretary, Second International Conference at Bapurao Deshmukh College of Engineering Sevagram Maharashtra

2007

Head of The Department of Civil Engineering at Bapurao Deshmukh College of Engineering Sevagram Maharashtra

1996, 1998, 2001, 2004

Officer In-Charge of University Examination at Bapurao Deshmukh College of Engineering Sevagram Maharashtra

Awards

Diploma

First Merit in Maharashtra in Diploma Examination

B.E.

Passed B.E. in **Distinction Grade**

Elocution and Debate

Bagged many Prizes in Elocution Competitions

Subjects Taught and Laboratory Setup

Ph.D. Coursework

Statistical Analysis and Modelling
Classical Optimization Methods
Matlab Programming
Advance Excel

Post Graduate

(1)Environment Management (2)Public System Administration (3)Matrix Methods (4)Bunkers and Silos (5)Advanced Concrete Design

Undergraduate

(1) Traffic Engineering (2)Transportation Engineering (3)Engineering Mechanics(4)Environmental Engineering(5)Water and Waste Water Engineering,Water Treatment (6)FORTRAN Programming

Laboratory Setup

(1) Public Health Engineering (2)Engineering Mechanics Laboratory (3)Material Testing (4)Computer Laboratory

Conferences and Summer/Winter Schools Attended

1. India-Japan Seminar on Advantages of Using Steel Structures in Buildings and Infrastructure, under Indo Japan Steel Relations Program, 12-13 March 2019, IIT Bombay.
2. 3rd Conference of Transportation Research Group of India, Kolkata India 2015.
3. 2nd Conference of Transportation Research Group of India, Agra India 2013.
4. International Conference 'Transportation Planning Methodologies for Developing Countries' December, 2012 at IIT Bombay
5. World Summit on Accreditation, New Delhi. March 2012.
6. First Conference of Transportation Research Group of India, December 2011, Bangalore
7. Indo American Summit on Education 09, New Delhi, 2009
8. Computer Aided Transportation Planning and Traffic Engineering, IISc Bangalore Dec 2010
9. Recent Trends in Urban Traffic Planning, NIT Surat October 2009
10. Computer Aided Traffic Engineering - IIT Guwahati, November 2008
11. Clean Production Technologies - NITTTR, Chandigarh June 2008

Recent Publications

1. **Bokare, P.S. and Dhabadgaonkar, S.M.** 'Characterization of Sugar Mill Waste Water', Proc. of International Conference on Advances in Steel, Power and Construction Technology, 21-22 November 2019, OP Jindal University, Raigarh, C.G. India.
2. **Bokare, P.S. and Pandey, V.** Finite Element Analysis of Beam Column Joint in RCC Structure', International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653, Volume 6 Issue VI, June 2018.
3. **Bokare, P.S. and Sony, P.** 'Parametric Comparison of Rectangular and Trapezoidal Box Girder Bridge Deck System' IRJET, ISSN 2395-0072, 4(9) 2017.
4. **Bokare, P.S. and Sony, P.** 'Review of Design Procedure for Box Girder Bridges' iJRASET, ISSN 2321-9653, 5(9) 2017.
5. **Bokare, P.S. and Nag Choudhary, S.** 'Dynamic Analysis of Multi-storey Building using Response Spectrum Method and Seismic Coefficient Method – A Comparison' iJRASET, ISSN 2321-9653, 5(3) March, 2017.
6. **Bokare, P.S. and Chandrakar, P.** 'A Review - Comparison between Response Spectrum Method and Time History Method for Dynamic Analysis of Multistoried Building', ISSN 2319-7064, 6(5), 2017.
7. **Bokare, P.S. and Maurya, A.K.** 'Acceleration-Deceleration Behaviour of Various Vehicle Types', Transportation Research Procedia - **Journal Elsevier**, 2016 World Conference on Transportation Research, WCTR 2016, 10-15 July 2016 Shanghai, China.
8. **Bokare, P.S. and Maurya, A.K.** 'Study of Acceleration Behaviour of Motorized Three Wheeler in India', Transportation Research Procedia - **Journal Elsevier**, 2014 (International Conference on Transportation Planning Methodologies for Developing Countries, TPMDC-2014),.
9. **Maurya, A.K. and Bokare, P.S.** Sample Size Requirements for Vehicles Speed Data Collection Using Global Positioning System Procedia Social and Behavioral Sciences- **Journal Elsevier** 2nd Conference of Transportation Research Group of India, Agra, India. December, 2013.
10. **Maurya, A.K. and Bokare, P.S.** 'Study of Deceleration Behaviour of Different Vehicle Types', in International Journal of Traffic and Transport Engineering (**Impact Factor 1.1595**), 2012, 2(3), 253-270.
11. **Bokare, P.S. and Maurya, A.K.** 'Study of effect of Speed, Acceleration and Deceleration (A/D) Of Small Petrol Car on its Tailpipe Emission' in International Journal for Traffic and Transport Engineering (**Impact Factor 1.1595**), 2013, 3(4): 465 - 478
12. **Bokare, P.S. and Maurya, A.K.** 'Acceleration and Deceleration Behaviour of Truck on Indian Highway' Indian Highways, March, 2014 Journal of Indian Roads Congress, New Delhi India.

Recent Publications, Continued

13. **Bokare, P.S. and Maurya, A.K.** Speed-Time Models of Deceleration Manoeuvre of Various Vehicle Types at Signalized Intersection, in Proceedings of 3rd Conference of Transportation Research Group India, Kolkata, India, 2015 (published). **Conference**
14. **Bokare, P.S. and Maurya, A.K.** Study of Acceleration Behaviour of Motorized Three Wheeler in India. Transportation Planning Methodologies for Developing Countries, 2014, IIT Bombay, India. **Conference**
15. **Bokare, P.S. and Maurya, A.K.** Study of effect of speed, acceleration and deceleration maneuver on vehicle's tail pipe emission Transportation Planning Methodologies for Developing Countries, 2012, IIT Bombay, India. **Conference**
16. **Maurya, A.K. and Bokare, P.S.,** Bus Driving Cycle on State Highway in Maharashtra, India.- A case Study, At National Workshop on Understanding Real World Indian Driving Cycle at Central Road Research Institute, New Delhi, India. 4th December, 2012. **Conference**
17. **Maurya, A.K. and Bokare, P.S.** Acceleration Modeling of Vehicles in Developing Countries, Published in 2nd International Conference on Models and Technologies for Intelligent Transportation Systems, 22-24 June, 2011, Leuven, Belgium. **Conference**
18. **Maurya, A.K. and Bokare, P.S.** Effect of driver behavior on vehicle acceleration 1st Conference of Transportation Research Group of India, Bangalore, India. December, 2011. **Conference**

Reviewer

- Institution of Engineers, Journal of Civil Engineering
- International Journal of Traffic and Transport Engineering, Belgium.

Lectures Delivered

At Government Science College, Durg

Lecture on 'Few Thoughts on Success, Failure etc.' at Government Science College Durg on 3rd September 2016.

Surana Government Girl College, Durg

Lecture on 'How to Lead A Successful Professional Life' at on 3rd September 2016.

For the Research Scholars at RSR Rungta College of Engineering and Technology, Bhilai

Five Day Workshop on Research Methodology, December 2016

For the Research Scholars at RSR Rungta College of Engineering and Technology, Bhilai

Classical Optimization Methods, November 2016

For the Research Scholar at Rungta College of Dental Science and Research, Bhilai

Statistical Analysis using MS Excel

For the Research Scholars at Sanjay Rungta Group of Institutions, Bhilai

How to Write Research Papers

For the Research Scholars at Sanjay Rungta Group of Institutions, Bhilai

Research Methodology

For the Research Scholars at RSR Rungta College of Engineering and Technology, Bhilai

Research Methodology

For the Research Scholars at RSR Rungta College of Engineering and Technology, Bhilai

Workshop on L^AT_EX2e (02 times)

Hydrology Data User Group, Nashik, M.S.

Expert Lecture on GIS Based Data Logging Technic, November 2012 at Wardha

Lectures Delivered, Continued

For the Ph.D. Scholars of Electrical Engineering Students at Wardha, M.S.

Classical Optimization Methods

For the Research Scholars at Ramdev Baba Kamlanehru Engineering College Nagpur

Statistical Analysis using MS Excel

For the Research Scholars at Cummins College of Engineering for Women, Pune, M.S.

Data Analysis using Statistical Methods

Participation in University Work

- Executive Council member of Hemchandra Sahu Durg University, Durg Chhattisgarh.
- Drafted scheme and curriculum of Civil Engineering undergraduate program for RTM Nagpur University in the year 2001.
- Member Board of Studies, RTM Nagpur University in the year 2001-2004

Thesis Evaluated and Undergoing Thesis

- Five PhD thesis evaluated
- One student doing her PhD thesis under me right now

Special Efforts Taken to improve skill set

1. 3rd Conference of Transportation Research Group of India, Kolkata India 2015.
2. 2nd Conference of Transportation Research Group of India, Agra India 2013.
3. International Conference 'Transportation Planning Methodologies for Developing Countries' December, 2012 at IIT Bombay
4. World Summit on Accreditation, New Delhi. March 2012.
5. First Conference of Transportation Research Group of India, December 2011, Bangalore
6. Indo American Summit on Education 09, New Delhi, 2009
7. All India Seminar on Maintenance and rehabilitation of structures IE Nagpur Local Center, 1992
8. Annual convention - Indian Water Works Association, 1993
9. Computer Aided Transportation Planning and Traffic Engineering, IISc Bangalore Dec 2010

10. Recent Trends in Urban Traffic Planning, NIT Surat October 2009
11. Computer Aided Traffic Engineering - IIT Guwahati, November 2008
12. Clean Production Technologies - NITTTR, Chandigarh June 2008

Ph.D. Thesis Evaluated

2019 Analysis of Stresses in RCC Bridge Piers. For RTM Nagpur University, Nagpur.

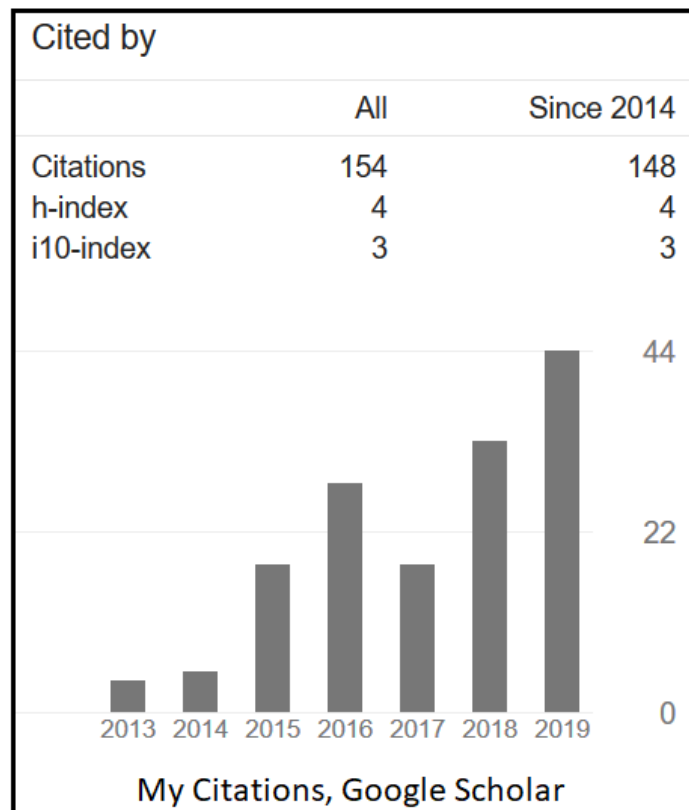
2017 Analysis of GIS Techniques in Finalizing the Canal Alignment and Canal Design. For RTM Nagpur University, Nagpur.

2017 Investigation on Strength Variation of Lime Fly-Ash Mortar With Change in Parameters. For RTM Nagpur University, Nagpur.

2017 Formulation of Effective Environmental Audit Method for Indian Coal Industry. For RTM Nagpur University, Nagpur.

2017 Modeling of Coupled Freshwater in Heterogeneous Layer and Salt-water Flow Coastal Aquifers. For Mumbai University, Mumbai.

2014 Parametric Studies on Rice Husk Ash As A Pozzolanic Material For RTM Nagpur University, Nagpur.



Reviewer of Journals

- International Journal of Traffic and Transport Engineering, Belgrade, Serbia
- Journal of The Institution of Engineers (India) - Series A
- Research Journal of Chhattisgarh Swami Vivekanand Technical University, Bilai.

Events Organized

Co-Chairman 4th International Conference on Advances in Steel, Power and Construction Technology, November 2019, OP Jindal University, Raigarh CG.

Chairman 3rd International Conference on Advances in Steel, Power and Construction Technology, November 2018, OP Jindal University, Raigarh CG.

Conference Chair National Conference 'Applications of Computers and Electronics for the Welfare of Rural Masses, ACEWRM 2015'

Organizing Secretary International Conference 'Emerging Frontiers of Technologies for Rural Area, EFITRA 2012'

Organizing Secretary International Conference 'Benchmarks in Engineering, Science and Technology, IC-BEST 2012'

Convener Wheel-Spin 2011, National Students Techfest

Hobbies

Reading

Latest Reads - Man The Unknown by Alexis Carrel, The Art of Happiness by Dalai Lama

Indian Classical Music

Can Sing and understand

Legends - Smt. Girijadevi, Shri. Mehadi Hassan, Dinkar Phanshikar

Sport, Badminton

Can play

Ace shuttlers - Lin Dan, Kento Momota, Kadambi Shrikant

References

Dr.Akhilesh Kumar Maurya Associate Professor, Department of Civil Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, India. Contact - maurya@iitg.ernet.in, 09435733624, 0361-2582426

Dr.Rajan Chowdhari Associate Professor, Department of Civil Engineering, Indian Institute of Technology Guwahati, Guwahati, Assam, India. Contact - rajandce@iitg.ernet.in, 0361-2582434

Dr.Dilip Peshwe Professor, Department of Metallurgy, V.N.I.T. Nagpur, Maharashtra, India. Contact - drpeshwe@mme.vnit.ac.in, 0712-2801385