

RESUME

1. Name : Prashant Purushottam Nagrale
2. Date of Birth : 8th may 1972 (Age – 49 Years)
3. Name of the Institution : Sardar Patel College of Engineering
4. Department : Civil Engineering
5. Field of Specialization : Modeling of Pavement, its Design, Low Cost Roads, Ground improvement
6. Academic Qualifications : B.E. (Civil), M. Tech. (Civil Engg.), Ph. D. (Transportation Engineering, IIT Roorkee), M. B. A. Project Management
7. R&D and Teaching Experience : 24 Years
8. Industrial Experience, if any : Nil
9. Awards / Prizes / Certificates etc. : Obtain fellowship from Gov. of India during Ph. D.
10. Office Address : Dr. Prashant P. Nagrale (Professor & Dean)
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Sardar Patel College of Engineering,
Andheri (w), Mumbai – 58.
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14. EDUCATIONAL QUALIFICATION

August 2006

Ph. D. Indian Institute of Technology Roorkee, INDIA

Supervisor: Dr. M. N. Viladkar, Professor, CED,IIT, Roorkee.

Dr. Satish Chandra, Professor, CED, IIT, Roorkee.
(Director, CRRI, New Delhi)

Thesis Title: Modeling of Fibre Reinforced Flexible Pavements.

- Experimental program was conducted on three types of subgrade soils mixed with different percentage of fibre content and different aspect ratio for deciding the optimum quantity of fiber which gives maximum benefits in terms of strength.
- Static and cyclic triaxial test were conducted on unreinforced subgrade soils and subgrade soils reinforced with Optimum quantity of fibre content for understanding the effect of reinforcement and confinement on modulus of elasticity and resilient modulus.
- 2 – D axi-symmetric elasto – plastic Finite element model was developed for pavement section resting on unreinforced and reinforced subgrade soils using commercial software **ANSYS**.
- Generalized design chart was developed for design of flexible pavements resting on reinforced flexible pavements
- Benefits of fibre reinforcement in terms of extension in service life or reduction in layer thicknesses due to fibre reinforcement are proposed.

January 1998

M. Tech. V. R. C. E., Nagpur, INDIA

Supervisor: Dr. Ronghe, Professor, CED, VNIT, Nagpur.

Thesis Title: Parametric Study of Trough Bridge Superstructure

June 1995

B. E. Civil, Walchand College of Engineering, Sangli, India, with Distension

June 2013

M. B. A. Project Management, Sikkam Manipal University.

15. SUBJECTS TAUGHT

Sr. No.	Class	Semester	Title of the Course	Course Type
1	T. Y. B. Tech	IV	Transportation Engineering	Regular
2	T. Y. B. Tech	V	Highway Engineering	Regular
3	T. Y. B. Tech	V	Low Cost Low Volume Roads	Elective
4	B. Tech. Final	VI	Traffic Engineering & Control	Elective
5	B. Tech. Final	VII	Pavement Design & Construction	Elective
6	M. Tech.	I	Applied Statistics and Quantitive Technique	Regular
7	M. Tech.	II	Project Appraisal Planning and Scheduling	Regular
8	Ph. D.	Course work	Quantitative Methods and Computer Application in Research	----

16. SPONSORED RESEARCH PROJECTS

Period	Sponsoring Organization	Title of Project	Grant received	Status
2018	Mumbai University	Modelling of Cell Filled Concrete Flexible Pavements	0.25 L	----
2015	TEQIP	Mechanistic Approach and its Design for Stabilized Flexible Pavement.	2.5 L	completed
2010	AICTE, New Delhi	Modernization of traffic and transportation Lab of Civil Engineering Department.	9.0 L	completed
2009	AICTE, New Delhi	Development of design charts for lime stabilized low volume rural roads.	10.0 L	completed
2007	AICTE, New Delhi	Design and Construction Methodology for Low Cost Roads using Stabilization Technique.	2.0 L	completed
2006	AICTE, New Delhi	Application of Genetic Algorithms for Scheduling Public Transport Buses in Mumbai.	6.0 L	completed

17. ADMINISTRATIVE / OTHER EXPERIENCES

Period	Organization	Nature of Responsibility	Designation
Nov. 2020 to March 2022	NRIDA	Scrutiny of DPR of Roads and Bridges and suggested the innovative ideas for construction of Rural Roads of one of the prestigious scheme PMGSY in the capacity of STA	Professor & Dean Finance
Nov. 2020 to May 2021	DTE	Instrumental for the preparation of DPR of the New Government College of Engineering at Ratnagiri. The Institute got Approval from DTE, AICTE and Government of Maharashtra for starting the Government Engineering College at Ratnagiri.	Professor & Dean Finance
Oct. 2020	DTE	Instrumental for the preparation of DPR for the New Government Architectural College in Konkan Region	Professor & Dean Finance
Since Jan, 2019	SPCE	<p>Dean Finance:</p> <ol style="list-style-type: none"> 1. The reconciliation work of UG and Exam Account section. 2. Monitoring the fees collected from UG, PG and Ph. D. students, Revenue generated through Consultancy, fees received from Social Welfare etc. 3. Keeping the records of salary bill submitted to DTE and taking regular follow up with DTE for receiving salary grant. 4. Planning for the fund available and distribution of the same for various activities in the institutes after approval from finance committee. 5. Conducting internal audit of the account section. 6. Updating to the Principal about financial position of the Institute regularly. 	Professor Former HoD, & Chairman PG Program
Since May, 2016 to Dec. 2018	SPCE	<p>Chairperson, PG Programs at Institute Level.</p> <ol style="list-style-type: none"> 1. Monitoring Academic, Finance and Establishment section at Institute Level. 2. Developed the policies for academic and Research growth of PG Section. 	Professor Former HoD,

		<p>3. Interacted with Industries for the Placement of PG Students.</p> <p>4. Motivated faculties to Prepared of proposals for starting of some New PG program in the Institute.</p> <p>5. Instrumental for preparation of Scheme and Syllabus for conduct of 16 credit course work for the Ph. D. program as per UGC guideline and submitted to University of Mumbai.</p> <p>6. Prepared Strategic Plan and Policies (2017-2022) for the Growth of PG Section and submitted to the Principal.</p>	
Since Oct., 2013 to Jan.2019	SPCE	<p>Chairman Building and Works Committee.</p> <p>1. Prepared plan for space distribution to Civil, Electrical, Mechanical Department and PG Section as per AICTE guideline and submitted to the Principal.</p> <p>2. Carried out waterproofing, strengthening and painting work of the institute and hostel building. (it Includes, Inviting tender, appointing contractors, and get work done and monitoring the progress of work).</p> <p>3. Instrumental in utilizing about 1.5 Cr From Institute account, 0.75 from TEQIP – II during 2014-2016 and 0.65 Cr from TEQIP – III for waterproofing, strengthening and painting work of the institute and hostel building During 2017-2020.</p>	Professor & HoD Civil, Chairman PG Section
Aug. 2019 till date	SPCE	<p>Chairman, Grievance Committee:</p> <p>1. Resolved all the types of Grievances of the teaching and nonteaching staff received to the committee.</p>	Professor & Dean Finance
May, 2016	DTE	<p>Coordinator for Centralized Admission Process:</p> <p>Coordinator for ME/M.Tech./Hotel Management/ Pharmacy/ MBA admission for entire Maharashtra through centralized admission process (CAP).</p>	Professor & Chairman PG Program
Since Nov. 2013	NRRDA, New Delhi	<p>Coordinator State Technical Agency (STA):</p> <p>National Rural Road and Infrastructure Development Authority (NRIDA) New Delhi selected Civil Engineering Department as a (STA)</p>	Professor & HoD Civil

		center for Scrutinizing the Road and Bridge DPR of five Districts of Konkan Region, Maharashtra. Under one of the prestigious scheme PMGSY.	
June,2013 to June 2015	SPCE	<p>BoG Member (2013 -2015):</p> <ol style="list-style-type: none"> 1. Worked with principal for preparation of agenda of BoG meeting, collection of necessary documents required for the BoG Meeting. 2. worked with Principal for preparation of Five years Strategic plan for the academic growth of institute, 3. Worked with Principal for policy matters in the Institute. 4. Worked with the Principal for necessary documentation for the BoG meeting 	Professor & HoD Civil
Dec. , 2013	SPCE	<p>Chairman Subject Board:</p> <ol style="list-style-type: none"> 1. Prepared complete Scheme and syllabus and credits for UG, PG and Ph. D program after discussion with department staff and approved the same from subject board. 2. List of Examiners for paper setting and evaluation of M. Tech. Dissertation work with the help of department staff and approved the same from subject board. 3. Prepared the guideline related to evaluation scheme. 	Professor & HoD Civil
Oct., 2013 to Oct. 2016	SPCE	<p>Head of Civil Engineering Department:</p> <ol style="list-style-type: none"> 1. Day to day activities of department, growth plan of department for next five years, 2. Instrumental for strengthening of Environmental Laboratory, Transportation laboratory, Geotechnical Laboratory and established GIS laboratory, Laboratory for PG etc. through TEQIP Fund. 3. Motivated faculties for the professional growth, strengthen M. Tech. Construction Management Program, Ph. D. Civil Engineering program. 4. Motivated faculties to conduct guest lectures for the students, 	Professor

		<p>5. Motivated department faculties for research, consultancy.</p> <p>6. prepared and maintained proper documentation required for NBA, NIRF etc.</p>	
26.06.2013	SPCE	Selected as a Professor in the Department of Civil Engineering through Interview Process.	Professor
Sept. 2012 till date	SPCE	<p>Coordinator QIP Center:</p> <p>1. Instrumental for preparation of proposal for QIP Center in civil Engineering Department. Got Approval for QIP Center in Civil Engineering Department.</p> <p>2. Received grant of 2 Lakh Rs. from AICTE for establishing center in SPCE.</p> <p>3. AICTE can give 100 percent grant for conducting short term courses under QIP. Also, two full time research scholars can be selected and AICTE can give full expenditure, stipend of these scholar.</p>	
Sept. 2012 Oct 2016	SPCE	<p>Coordinator Ph. D. Program:</p> <p>Nominated as a coordinator for academic and administrative part of Ph. D. Program in Civil Engineering Department.</p>	Associate Professor
Aug. 2011 to Aug.2014	SPCE	<p>Coordinator M.Tech. Civil:</p> <p>1. Instrumental for preparation of proposal for M. Tech. Civil with Construction Management subjects. Got approval from AICTE, University and State Government for starting this program in SPCE.</p> <p>2. Motivated department faculties for their involvement in PG program.</p>	Associate Professor
Aug. 2011 to July 2012	SPCE	Worked as in charge HoD in absence of Present HoD for more than 6 month.	Associate Professor
March 2011	MPSC	Nominated for the confidential work in MPSC office.	Associate Professor
May 2010	Mumbai University	Syllabus Revision committee member for UG and PG course	Associate Professor

May 2009 till date	DTE/ M.P.S.C.	Expert Committee member for new engineering, pharmacy and MBA Degree colleges and Polytechnic colleges in Maharashtra.	Associate Professor
May 2009- 10 & 2010 - 11	SPCE	Nominated as Coordinator for First year Engineering admission (CAP- Maharashtra State) and J & K admission for a year 2009-10 and 2010 - 11.	Associate Professor
May 2008	Mumbai University	Nominated as exam controller for part time and full time UG and PG examination,	Associate Professor
Since May 2006	SPCE	Testing, Research and Consultancy Work in Transportation Engineering Laboratory	Lecturer
May 2007 &2008	SPCE	Nominated as CAP Monitors for part time and full time UG examination,	Lecturer
16.08.2007	SPCE	Selected as Associate Professor in the Department of Civil Engineering through Interview Process.	Associate Professor
May 2003	SPCE	Outside Maharashtra State Admissions, In charge: counseling committee	Lecturer
May, 2002	SPCE	Selected for the Ph. D. Programme Under QIP at Indian Institute of Technology, Roorkee	Lecturer
May 2002	SPCE	Outside State Admissions, In charge: counseling committee	Lecturer
May 2001	SPCE	Outside State Admissions, In charge: counseling committee	Lecturer
May 2000	SPCE	Outside State Admissions, In charge: counseling committee	Lecturer

18. RESEARCH PUBLICATIONS

Sr. No.	Title of Paper	Year of Publication
International Journals		
1	<p><i>“Evaluation of Strength Characteristics of Flexible Pavement Layers Modified with Plastic Waste”</i> By - Arpit Vyas , Dr.Anil Ghadge and Dr. Prashant Nagrale, International Journal of Environmental Sciences, ISSN: 2229-7359, Vol. 11 No. 5s, 2025, https://www.theaspd.com/ijes.php</p>	2025

2	<p><i>“Prediction of L_{10} and L_{eq} Noise Levels Due to Vehicular Traffic in Urban Area Using ANN and Adaptive Neuro-Fuzzy Interface System (ANFIS) Approach”,</i></p> <p>by - Patil Vilas K., & Dr. Nagrale Prashant P. International Journal of Business Data Communications and Networking, ISSN:1548-0631, Volume-15, Issue-2</p>	2019
3	<p><i>“Noise Mapping Using Q-GIS: A case study of Nashik City.”</i> By - Patil Vilas K., & Dr. Nagrale Prashant P. (2018), International Journal for Research in Engineering Applications and Management, ISSN:2454-9150, Volume-4, Issue 03,542-545.</p>	2018
4	<p><i>“Conceptual and Strategic Planning for Undeveloped Residential Area in Mumbai City”</i>, By, Saurabh A. and Prashant P. Nagrale, ASCE India Conference Proceeding, Dec.2018, pp – 15-21.</p>	2018
5	<p><i>“Improvement in Engineering Properties of Subgrade Soils Due to Stabilization and its Effect on Pavement Response”</i>, By Atulya Patil, Swapnil Raut and Prashant P. Nagrale, An International Journal of Geomechanics and Engineering, (Techno- Press, ISSN: 2005-307X), Volume 12, Number 2, February 2017 Pp – 257-267.</p>	2017
6	<p><i>“ Stabilization of Subgrade soil and its Benefits in terms of Pavement Response”</i> , By Atulya Patil, Swapnil Raut and Prashant P. Nagrale, Asian Journal of Science and Technology, ISSN:0976-3376, Vol. 07, Issue 02, February, 2016. Pp - 2352 – 2357.</p>	2016
7	<p><i>“Modelling of Road Traffic Noise in Selected Areas of Nashik City.”</i> By - Patil Vilas K. & Dr. Nagrale Prashant P., International Journal of Advanced Technology in Civil Engineering, ISSN:2231-5721, Volume-2, Issue-1,108-111</p>	2013
8	<p><i>“Mechanistic Approach for Fibre Reinforced Flexible Pavements”</i> by M.N. Viladkar, Satish Chandra and Nagrale, Prashant P. J. Transportation Engineering, ASCE. Jan – 2008, pp – 15-21.</p>	2008
9	<p><i>“Finite Element Analysis of Fibre Reinforced Flexible Pavement”</i>, by Nagrale, Prashant P., Satish Chandra, and M.N. Viladkar, International Journal for Pavements, IJP, USA. Vol. – 5, 2006, pp 50-62.</p>	2006

	National Journal	
1	<i>“Design Charts For Cement Concrete Low Volume Rural Roads”, By Dr. Prashant P. Nagrale, Bharati M. Jagdale and Ruchika Agarwala, J. Indian Road Congres, New Delhi, India. Jan 2019.</i>	2019
2	<i>“Economic Analysis of Cell Filled Concrete Pavements” By Dr. Prashant P. Nagrale, Bharati M. Jagdale and Sagar J.Goud, J. Highway Research, New Delhi, India. July – Dec. 2019. Pp -14 -22.</i>	2019
3	<i>“Strength Characteristics of Stabilised Subgrade and it’s Economics in Rural Roads”, By – Prashant P. Nagrale & Atulya Patil J. Indian Highway, New Delhi, India. December 2019, Pp – 38 - 45</i>	2019
4	<i>“Strategic Planning for Redevelopment of Residential Projects in Mumbai”, By Prashant P. Nagrale and Amlani Saurabh, J . National Institute of Construction Management and Research (NICMAR) – Jan. 2017.</i>	2017
5	<i>“ Finite Element Modelling of Rollcrete Concrete Concrete Pavement”, By Prashant P. Nagrale, P. G. Gaikawad and Pranav Kulkarni, Journal of Construction Engineering Technology and Management (ISSN:2249-4723), Vol. 6, Issue – 2, JoCETM (2016), Pp-62-66.</i>	2016
6	<i>“Benefits of Mechanistic Approach in Flexible Pavement Design” by Nagrale Prashant P. & More Deepak, Journal Indian Highway, New Delhi, India. March 2014, pp-31-37.</i>	2014
7	<i>“Optimum Maintenance Predictions and Derivation of Transition Probability Matrices for Bridge Deterioration Modeling,” by Katkar S. R. and Nagrale Prashant P. Indian Highways – IRC, Volume 42, Number 1, January 2014, ISSN 0376-7256, pp. 52-65.</i>	2014
8	<i>“Formulation of Group of Pavements by Using Latin Square ANOVA Required for Network Level Pavement Maintenance Management” by Katkar S. R. and Nagrale Prashant P. Journal Institution of Engineers (India), Technical Journal No 37. Nov.2013, Pp 78 – 83.</i>	2013
9	<i>“Measurement and Analysis of Noise at Signalised Intersections.” By - Patil Vilas K. & Dr. Nagrale Prashant P., Journal of Environmental Research and</i>	2013

	Development, Volume-9, No.3, January-March 2015, 662-667	
10	<i>“Design of lime Stabilized Flexible Pavements”</i> By Prashant P. Nagrale and P. Shrivastava J. Indian Highway, New Delhi, India. Jan 2009, pp – 19 – 25.	2009
11	<i>Elasto-Plastic Analysis of Fibre Reinforced Flexible Pavements</i> ”, by Satish Chandra, M.N. Viladkar and Nagrale, Prashant P., Journal Institution of Engineers (India), vol -89, Nov. 2008, pp – 49-54.	2008
12	<i>“Modeling of Flexible Pavement Resting on Fibre Reinforced Subgrade Soils”</i> by Nagrale, Prashant P., Satish Chandra, and M.N. Viladkar, Journal Indian Roads Congress, New Delhi, India. Jan 2008, pp – 47 – 52.	2008
13	<i>“Benefits of Fibre Reinforced Subgrade Soils in Flexible Pavements”</i> , by Nagrale, Prashant P., Satish Chandra and M.N. Viladkar, Journal Institution of Engineers (India), Vol – 87, May –2006, pp.53 – 57.	2006
14	<i>Strength Characteristics of Fibre Reinforced Subgrade Soils”</i> , by Nagrale, Prashant P., Satish Chandra and M.N. Viladkar, Journal Highway Research Bulletin Number-74, April-2006, New Delhi, India. pp – 49 -58.	2006
	National and International Conferences	
1	<i>“Evaluation of Permeability Characteristics of Bitumenous Concrete with Different Nominal Maximum Aggregate sizes”</i> . By: Pritesh Bhana & Prashant P. Nagrale, 7 th Conference on Transportation Systems Engineering and management – 2020. Jointly Organised by National Transportation Planing & Research Center and College of Engineering Trivendrum, Kerla 29 – 30 December, 2020	Dec. 2020
2	<i>“Evaluation of Distress And Development of Pavement Condition Rating of Rural Roads”</i> By - Usama Ali & Dr. Prashant P. Nagrale, International Conference, <i>ICACSE-2020, Government college of Engineering Karad, India, 24 -25 , April, 2020</i>	2020
3	<i>“Analysis of Cement Concrete Low Volume Rural Roads”</i> , By – Prashant P. Nagrale & Bharti Jagdale, VI th Colloquium on Transportation System Engineering and Management (CTSEM – 2019), SVNIT Surat, Gujarat, 23 – 24 May 2019.	2019
4	<i>“The Effect of Geometric Parameters on Traffic Safety for Multilane Highways with Heterogeneous Traffic”</i> By – Manali More & Prashant P. Nagrale, VI th Colloquium on Transportation System Engineering and Management (CTSEM –	2019

	2019), SVNIT Surat, Gujrat, 23 – 24 May 2019.	
5	<i>“Modelling of Flexible Pavement with Cementitious Base”</i> By - Prashant P. Nagrale, Snehal S. Pashte Vishwajeet Pol-Inamdar, Gopal. R. Rabbewar, two days Dimand Jubilee National Conference on Innovative world of Structural Engineering (NCIWSE-2019), Goverment College of Engineering Aurangabad, 21-22 December 2019	2019
6	<i>“Use of Pozzocrete-60 for Construction of Low Volume Rural Roads”</i> , By : Ajankya Magdum, Prashant P. Nagrale & A. N. Ghadge, International conference (ICOPAC-2018), CRRI – New Delhi, 16.11.2018 -17.11.2018	2018
7	<i>“Strength Characteristics of Plastic Cell Filled Concrete”</i> , by: Bharti Jagdale & Prashant P. Nagrale, International conference (ICOPAC-2018), CRRI – New Delhi, 16.11.2018 -17.11.2018.	2018
8	<i>“Modelling of Stabilized Flexible Pavement: A New Concept of Pavement Design”</i> , By Nagrale Prashant P. Atual Patil and S. H. Ishwaratti, Conference of Numerical Modelling in Geomechanics (CoNMIG- 2017), IIT, Roorkee, 03.03.2017 to 04.03.2017.	2017
9	<i>“Improvement in Engineering Properties of Subgrade Soils Due to Stabilization and its Effect on Pavement Response”</i> , By - Prashant P nagrale & Atulya Patil, International Conference Organized by World Congress Committee in Collaboration with Techno-Press, Jeju Island, South Korea, 27.10.2016 to 05.11.2016	2016
10	<i>“Finite Element Modelling of Rollcrete Concrete Pavement”</i> by Nagrale, Prashant P., P. G. Gaikawad & Pranav Kulkarni at National Conference on advances in construction technology and management at VNIT – Nagpur, 19 – 20 Feb. 2016.	2016
11	<i>“Economic Analysis of Lime and Fly Ash Stabilized Flexible Pavements”</i> by Nagrale, Prashant P., Atulya Patil & Swapnil Raut at National Conference on advances in construction technology and management at VNIT – Nagpur, 19 – 20 Feb. 2016.	2016
12	<i>“Analysis of Time and Cost Overruns in Road Project”</i> by Nagrale, Prashant P., Atulya Patil & Nilesh Patil at National Conference on advances in	2016

	construction technology and management at VNIT – Nagpur, 19 – 20 Feb. 2016.	
13	<i>“Mechanistic Approach for Stabilised Flexible Pavements”</i> , By Nagrale Prashant P. and Atulya Patil, XII th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC- 2016), at IIT, Bombay, 19.12.2016 to 21.12.2016.	2016
14	<i>“Modelling of Stabilized Flexible Pavement: A New Concept of Pavement Design”</i> , By Nagrale Prashant P. Atual Patil, Indian Geotechnical Conference, IGC- 2016, IIT, Madras (Chennai), 15.012.2016 to 17.02.2016.	2016
15	<i>“Effect of Fly Ash on Soil Stabilization”</i> by Nagrale Prashant P., Atulya Patil & Swapnil A. Patil, Proceeding: National Conference Tech Streams – 2014, held at Pillai HoC college of Engineering and Technology, Rasayani, Panvel During 21-22 February, 2014.	2014
16	<i>“Economic Analysis of Rural Roads Using Finite Element Modelling,”</i> By Pravinkumar S. Jagtap and Dr. Prashant P.Nagrale, National Conference on Recent Advancement and Development in Civil engineering (RDACE-2013) at SKR college of Engineering Poonamallee, Chennai on 14 th to 15 th March, 2013.	2013
17	<i>“Estimation of Forecasted Amenities Required in R/North Ward of Mumbai City: A Case Study,”</i> by Ashok S. Pol and Dr. Prashant P.Nagrale; National Conference on Recent Advancement and Development in Civil engineering (RDACE-2013) at SKR College of Engineering Poonamallee, Chennai on 14 th to 15 th March, 2013.	2013
18	<i>“Estimation of Forecasted Amenities Required in R/North Ward of Mumbai City: A Case Study,”</i> by Ashok S. Pol and Dr. Prashant P. Nagrale; National Conference on Recent Advancement and Development in Civil engineering (RDACE-2013) at SKR College of Engineering Poonamallee, Chennai on 14 th to 15 th March2013.	2013
19	<i>“Estimation of Forecasted Amenities for Disposal of Sewage Required in Dahisar ward of Mumbai City,”</i> by Ashok S.Pol and Dr. Prashant P.Nagrale; National Conference on Recent Advancement and Development in Civil engineering (RDACE-2013) at SKR College of Engineering Poonamallee, Chennai on 14 th to 15 th March2013.	2013

20	<i>“Mechanistic Approach for Design of Low Volume Rural Roads”</i> , By Pravinkumar S. Jagtap and Dr. Prashant P. Nagrale, National Conference on Recent Advancement and Development in Civil engineering (RDACE-2013) at SKR college of Engineering Poonamallee, Chennai on 14 th to 15 th March, 2013.	2013
21	<i>“Benefits of Mechanistic Approach for Low Volume Rural Roads”</i> , by Nagrale, Prashant P., and Pravinkumar Jagtap, Indian Geotechnical Conference, IGC-2013, IIT Roorkee, India. Pp – 97-100.	2013
22	<i>“Finite Element Modelling of Flexible Pavements”</i> by Nagrale, Prashant P., and More Deepak, Indian Geotechnical Conference, IGC-2013, IIT Roorkee, India. Pp – 105-108.	2013
23	<i>“Estimation of Forecasted Amenities Required in Ward Mumbai City-Case Study”</i> by Nagrale, Prashant P., and Pol Ashok, Indian Geotechnical Conference, IGC-2013, IIT Roorkee, India. Pp – 278-281.	2013
24	<i>“Design of Jute Reinforced Flexible Pavements”</i> By Nagrale Prashant P. and et.al. International Conference SPICON 2012, Sardar Patel College of Engineering Andheri (w), Mumbai – 58, May 2012, TRE - 17.	2012
25	<i>“Laboratory Investigation on Reinforced Subgrade Soil”</i> P. P. Nagrale, P. H. Sawant and S. S. Pusadkar, Indian Geotechnical Conference, IGC-2010, IIT B, Mumbai, India, pp. T8-352 -355.	2010
26	<i>“Effect of tyre pressure on fibre reinforced subgrade subgrade soil: A Mechanistic Approach”</i> by Nagrale, Prashant P., and Pusadkar S. S. Indian Geotechnical Conference, IGC-2008, Bangalore, India. Pp – 202 – 205.	2008
27	<i>“Mechanistic Approach for Fibre Reinforced Flexible Pavement”</i> , by Nagrale, Prashant P., Satish Chandra and M.N. Viladkar, Conference: Immerging Trend in Civil Engineering, Govt. College of Engineering Amaravti, March 2007.	2007
28	<i>“Behaviour of flexible pavement resting on fibre reinforced subgrade soils”</i> , by Nagrale, Prashant P., Satish Chandra and M.N. Viladkar, Indian Geotechnical Conference, IGC-2005, Ahmedabad, India, pp. 185 -188.	2005
29	<i>“Resilient Behaviour of Fibre Reinforced Subgrade Soil”</i> , By Nagrale, Prashant P., Satish Chandra and M.N. Viladkar, Conference: Immerging Trends in Highways and Bridges, TIET, Patiaela, India, 2004, pp. 178 – 182.	2004

Communicated Research Papers		
1	“Evaluation of Pavement Surface Distress and Its Maintenance Policy” International Journal of Civil Engineering	2025
2	“A Datadriven Framework for Prioritization of Rural Road Upgradation using Python and SQLite” SpringerJournals, Innovative Infrastructure Solutions	2025

19. Short Term Courses/Workshop Attended/Course Conducted

1. AICTE Sponsored short term course on **“Traffic Flow Modelling (TFM-2021)”**, Organized by school of Infrastructure, Indian Institute of Technology Bhubaneshwar, Odisha, India.
2. Attended one week TEQIP – III sponsored online faculty Development Programme on **“Road Safety Issues and Challenges”**. Organized by Transportation Division, Department of Civil Engineering, NIT Warangal during 07.12.2020 to 11.12.2020.
3. Attended one week TEQIP – III sponsored online faculty Development Programme on **“Efficacy of digital Pedagogy for effective on line teaching Learning”**. Organized by Sardar Patel College of Engineering, Andheri (w), Mumbai – 58. During 08.10.2020 to 15.10.2020.
4. Attended one week training programme on **“Design and Construction of Sustainable Concrete Pavements”** Organized by Prof. A. Veeraragavan, Professor, Department of Civil Engineering, Indian Institute of Technology Madras sponsored Under TEQIP – III, during 09.12.2019 to 13.12.2019.
5. Conducted one week workshop on **“Highway Geometric Design and Road Safety”**

Awareness” at Reva Engineering College, REVA under twining activity of TEQIP - III, during 24.9.19 to 28. 9. 2019.

6. Delivered Export Lecture to the Students and Faculties of Reva Engineering College, REVA on the Topic “***Finite Element Modeling on Lime Stabilized Flexible Pavement***”, on 28.01.2019, under twining activity of TEQIP – III.
7. Attended one week “Induction Program for Newly admitted Student”, conducted at College of Engineering Pune Under TEQIP – III During 27.11.2017 to 02.12.2017.
8. Participate as a Core Group coordinator for the preparation of Strategic Plan of the institute for a period of 03.02.2017 – 04.02.2017.
9. One week short term course on “***Developing Interpersonal skill and Effective Communication***”, Organized by Sardar Patel college of Engineering Andheri (w), Mumbai, under TEQIP – II in collaboration with SPFU during 02.01.2017 to 07.01.2017.
10. Two days workshop on “***Application of Non-conventional Materials and Technologies in Rural Roads***” organized by IIT Bhubaneshwar during 22.08.2014 to 23.08.2014 under PMGSY.
11. Two Days Workshop on “***How to write Course Learning Objectives and Research Based Instructional Strategies***” held on 6th and 7th Dec. 2012 at Government College of Engineering, Pune.
12. One Day workshop on “***Quality Improvement Program in Context of Current Education in India***” on 10th Sept. 2012 at IISc, Bangalore.
13. Three days workshop on “***Quality Initiative in Technical and Higher Educational Institutes***” Held During 28th to 30th Aug. 2012 at Engineering Staff College of India, Hyderabad.
14. One day Orientation Program on “***New outcome Based Accreditation processes***” held on 16th June 2012 at Government College of Engineering, Pune.

15. One day Workshop on “***Procurement and PMSS training***” Organized by State Project Facilitation Unit, Chandigarh, on 16th March 2012 at Chandigarh.
16. Conducted 3 days workshop on “***Disaster Management/Disaster Proofing of Structure***” to Civil engineers (EE/SE Level) of the **Prasar Bharati** (Broadcasting Corporation of India) at Mumbai in July. 2011.
17. Conducted 3 days “***Refresher course to Civil engineers (AE/EE/SE Level)***” of the **Prasar Bharati** (Broadcasting Corporation of India) at Mumbai in Nov. 2009.
18. Participated in one week workshop “***Mission 10 X***” conducted by Wipro in Sardar Patel Institute of Technology. 24th to 26th Nov. 2008 and 9th and 10th Dec 2008.
19. Conducted one week short term course on “***Bridge Engineering to Civil engineers (EE/SE Level)***” of the P.W.D. Daman at DAMAN July. 2007.
20. One week short term course on **IPR** teaching sponsored by MHRD, Govt. of India and organized by IPR cell of IIT Roorkee during March 20 to 24, 2006.
21. Two days AICTE sponsored western region workshop **NTMIS** during 24th and 25th Jan 2002 held at Government Polytechnic Nagpur.
22. Two weeks AICTE-ISTE sponsored short term training programme during 21st oct to 31st oct 2002 on “***Finite Element Analysis of Structure***” organized by Applied Mechanics Department of VNIT, Nagpur, India.
23. Five weeks winter school during 27th November to 29th December 2000 on “***Object Oriented Programming in C++ and Java***” organized by Mechanical Engineering Department of Sardar Patel College of Engineering, Andheri (W), Mumbai 400 058, India.

20. Awards & Medals

- i. “**Received Best Teacher Award in 2012**” for doing Best work in teaching and Research in the area of Civil Engineering, the award was given by a Social Organization “**Runanubandha**”

Run by Mumbai Municipal Corporation, Mumbai. The survey was carried out at State Level and based on Merit this award was issued on Jan. 2012.

ii. Received Copyright (IPR) FROM Government of India for Computer Software Work Using Python Tool for Rural Road Upgradation Priority, title : **PP25 PYTHON TOOL FOR RURAL ROAD UPGRADATION PRIORITY, April 2025**

21. Initiatives

- i. Instrumental for Starting new full time "**Post Graduate Program in Civil Engineering (Construction Management Subjects)**" from year 2011 -12. (It is approved by AICTE and University of Mumbai.).
- ii. **Instrumental for Establishing "QIP Center for Ph. D. in Civil Engineering Department"** – Prepared the Proposal for QIP Center and submitted to AICTE and got approval from year 2012.
- iii. "**Initiated and prepared scheme and syllabus for Ph. D. course work**" for University of Mumbai as per New Guideline from year 2011.
- iv. "**Instrumental for establishing STA center in civil Engineering Department**" for one of the prestigious scheme of National Rural Road Development Authority (NRIDA) PMGSY in 2013.

22. Visit to Abroad

Country visited	Purpose of visit	Year	Remark
Jeju Island, South Korea	Presentation of Research Paper in one of the International Conference Organized by World Congress Committee in Collaboration with Techno-Press, " Title of the Conference Paper : Improvement in Engineering Properties of Subgrade Soils Due to Stabilization	27.10.2016 to 05.00.2016	Sponsored By Institute under TEQIP

	and its Effect on Pavement Response”		
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23 . Ph. D Completed

1. Katkar Surendra Kumar - *Title: Probabilistic Analysis of Pavement Maintenance Predictions of Rural Roads (2016).*
2. Patil Atulya P.- *Title : Modeling of Flexible Pavements Resting on Different Stabilizers and its Economic Analysis (2018).*
3. Patil Vilas K. – *Title: Modeling of Noise Due to Vehicular Traffic in Urban Area for Uninterrupted Traffic Flow (2019)*

24. Ph. D. Under Guidance

1. Bharati Jagdale (Under QIP) – *Title: Modelling of Cell filled Concrete Flexible Pavements and its Economics, Joined in July, 2017.*
2. Pritesh Bhana Title: *“Evaluation of Rutting and Fatigue Potential of Bituminous Mixes and Its Modelling”* Joined in Jan 2019.
3. Pravin kumar Jagtap: Title *“Modeling of Rural Road Upgradeation- Prioritization and its economics”* Joined in 2019.
4. Vikram Kothari: *“Modelling of Cementicious Base and Subbase of Flexible Pavement and its Economics”* Joined in 2021
5. Digvijay Lokhande: *“Topic Yet to finalize, doing course work, joined in Jan. 2025*

25. M. E. / M. Tech. Dissertation Guided/completed

Sr. No.	Name	Topic of Dissertation
1	Ameya A. Mahaddalkar	Economic Analysis of Rollcrete With Conventional Concrete in Highway Pavement.(2012)
2	A. S. Pol	Estimation of Forecasted Amenities Required in R/ N Ward of Mumbai City: A Case Study. (2013)
3	Mayuresh Patil	Evaluation of Pavement Deterioration Using Markovian Approach (2013)
4	Deepak More	Modeling of Flexible Pavement and its Economics (2013)
5	Ajit Sable	Feasibility Study for New RMC Plant and Its Successful Management. (2013)
6	Yewale Sudhir R.	Comparative Study of Prefab Concrete Structure with

		Conventional (RCC). (2013)
7	R. K. Barai	Maintenance Policy of Rural Roads Using Markov Chain Approach. (2013)
8	Pal S. N.	Rescheduling of High Rise Structures: A Case Study. (2013)
9	Pravin Jagtap	Development of Design Charts for Low Volume Rural Roads (2013)
10	Nadeem Qureshi	Economic Analysis of Roller Compacted Concrete Pavements (2014)
11	Swapnil A. Raut	Economic Analysis of Stabilised Flexible Pavement with Conventional Flexible Pavement (2014)
12	Rashmi Hire	Parking Facilities for Hybrid Vehicles (2014)
13	Sayagavi Prakash G.	Strategy for Risk Reduction in Construction Projects – Use of Risk Register (2014).
14	Bansode B. M.	Systematic Approach for Rural Road Network planning for upgradation and its cost analysis (2015).
15	Sarang D. Pokale	Strategic Planning of Rural Road Development and its economics. (2015).
16	Saurabh B. Amlani	Strategic Planning for Redevelopment of Residential Projects in Mumbai City. (2016).
17	Hrishikesh A. Shinde	Techno- Commercial Aspect wise Comparison of RCC repair Techniques. (2016).
18	Pawar Anuj U.	Design of Costal Road in Mumbai City (2016).
19	Ajinkya Magdum	Finite Element Analysis of Semi-rigid Pavement and its Economics. (2017)
20	Rohan Jain	Modelling for upgradation Priority of Rural Roads (2018)
21	Sagar Goud	Economic Analysis of Cell field concrete Flexible Pavements. (2018)
22	Hatim	Structural Education Model for Investigating Labour Productivity in Infrastructure Project (2019)
23	Manali More	Effect of External Factors on Crash Rate for Multilane Highways with Heterogeneous Traffic, (2019)
24	Patel Mayur Dilip	Feasibility Study of Samruddhi Expressway, (2020)
25	Usama Sharique Ali	“Evaluation of Effect of Distresses on the Speed of Vehicles” (2020)
26	Harshal Tanaji Malusare	“Asphalt Pavement Distress and Condition Evaluation Using ASTM D6433 and IRC 82” (2023)
27	Ms. Kamleshwari Rajaram Jadhav	“Development of Relationship Between Pavement Surface Distresses and Its Maintenance Policy” (2025)
28		

26. M. E. /M. Tech/ Ph. D. Thesis Examined

Sr. No.	Title of the Thesis	Name of the student	Name of the College	Examination Type

1	Behavior of Skirted Raft Foundation	Tejas P. Bhatkar on 1/7/2013	Government College of Engineering, Amaravti	M. Tech.
2	Performance of Adjacent Footings on Reinforced Sand	Sachin S. Saraf on 1/7/2013		M. Tech.
3	Influence of Adjoining Footing(s) on Bearing Capacity	Mandar Deshkar on 15/5/2012	Government College of Engineering, Amaravti	M. Tech.
4	Study of Behavior of Plate Girder with Corrugated Web	Patil Mansi N. on 28.06.2019	K. K. Wagh, Nasik, Savitribai Phule Pune University	M. Tech.
5	Experimental and Finite Element Investigation of Castellated Beam with circular and capsule shape Opening with and without transverse stiffeners.	Wagh Mayur G. on 28.06.2019	K. K. Wagh, Nasik, Savitribai Phule Pune University	M. Tech.
6	Development of Efficient Cementations Grouts	Prof. S. A. Dhale Guided By. Dr. A. M. Pande	Nagpur University	Ph. D.
7	Effect of Road Geometry and Traffic Characteristics on crash rate for multilane Highway with Heterogeneous traffic.	Prof. Anuj kumar Sharma, Guided By. Dr. V. S. Landge	Nagpur University, letter No. 1626, Dated:27.11.2014	Ph. D.
8	e2 Construction: A model for Indian Skill Development and Construction Labour in UAE.	Elias Boutros Sayah Guided by. Prof. Dr. M. S.Randive	Savitribai Phule Pune University. Ref.no. PGS/PHD/1040, Dated 14.03.2017 , MIS No. 133.	Ph. D.
9	"Effective use of bio oil obtained by pyrolysis of municipal solid waste, in flexible pavement "	Mr. Kulkarni Swanand Guided by. Prof. Dr. M. S. Randive	Savitribai Phule Pune University. Ref.no. Mail Dated: 10.11.2020.	Ph. D.

27. Membership of Professional Bodies/Institutions

- i. Life member of Indian Society of Technical Education (ISTE), India, Membership Number – LM 32957, Dated: 14.03.2002.
- ii. Life member of Indian Geotechnical Society, Mumbai Chapter, Membership Number – LM – 958, since 2006.
- iii. Life member of Non-Destructive Testing Association, Mumbai Chapter, Membership Number – LM – 6003, since 2001.
- iv. Approved M. E. Teacher in University of Mumbai, Letter: PG/2/1948/of 2009, Dated 7th May 2009.
- v. Approved Ph. D. Guide in University of Mumbai from 29th Feb.2012, Letter: Th/ICD/2012-13/582, Dated 9th May 2012.
- vi. Member board of study, Department of Civil Engineering, Government Autonomous College of Engineering, Amaravati (since 2020)
- vii. Member Academic Council, Thakur College of Engineering and Technology (Autonomous Institute), Kandivali (East), Mumbai.

28. University Approval at Various Positions:

Sr. No.	Post	Nature of Appointment	Date of Approval
1	Lecturer (As per Vth Pay) Date of Joining 17.09.1999,	Permanent by selection in Interview	CONCOL/SA/860 of 2006, Dated 28.02.2006.
2	Assistant Professor, (As per Vth Pay) Date of Joining 21.08.2007	Temporary by selection in Interview for one Year, 2007-08.	CONCOL/IS/ECD/13-14/34776, Dated: 20.02.2014.
3	Assistant Professor, (As per Vth Pay) Date of Joining: 01.05.2008	Temporary by selection in Interview for one Year, 2008-09	CONCOL/SA/3294/of 2011, Dated: 5.09.2011.
4	Assistant Professor, (As per Vth Pay), Date of Joining 09.09.2009	Permanent by selection in Interview, From year 2009.	CONCOL/IS/ECD/12-13/ 6104, Dated 07.12.2013.
5	Professor, Date of Joining: 26.06.2013	Permanent by selection in Interview, Appointment letter No. 26/2013-14/4756, Dated 24.06.20 Probation Completion Letter Ref. No. 81/2015-16/893, Dated: 16.11.2015.	CONCOL/IS/ECD/2014-15/16032, Dated:30.08.2014 DTE Letter no. 4/ Astha/Manyata/2013/1 5793. University Letter

29. Session Chair / Special Lecture / key Note Lectures Delivered

1. Delivered expert lecture on “***Finite Element Modeling of Flexible Pavement : A New Concept of Pavement Design***” in short term course at Pillai College of Engineering, Rasayani, new Panvel on 12.01.2016.
2. Delivered expert lecture on “***Mechanistic- Empirical Approach for Flexible pavement Design: A New Concept***” in short term course at Datta Meghe College of Engineering, Airoli, Mumbai on 23.12.2016.
3. Delivered Key Note Lecture in International Conference ICRTES-2017 (Techno – Vision 17), “***Finite Element Modeling of Stabilized Flexible Pavements: A New Concept of Pavement Design***”, Key Note Lecture in International Conference ICRTES-2017 (Techno – Vision 17), 20.01.2017 to 21.01.2017, at Government College of Engineering, Jalgaon, Distt. Jalgaon.
4. Delivered Expert Lecture on “***Finite Element Modelling and Economics for Rollcrete Concrete Pavements***”, AICTE approved Short term course in Datta Meghe College of Engineering, sector – 3, Navi Mumbai, Dated – 20.12.2017.
5. Delivered Key Note Lecture on “***Economics of Rollcrete concrete pavements for Rural Roads***”, National Conference on Roads and Transport (NCORT), Oct. 14-15, 2017, at IIT Roorkee.
6. Delivered Key Note Lecture on “***Design and Construction of Cement Concrete Low Volume Rural Roads (As per IRC: SP: 62 -2014)***”, International Conference on Research & Innovative Perspectives in Engineering (ICRIPE – 2021), Organised by Government College of Engineering, Nagpur.
7. Session Chair for one of the Technical session of International Conference ICRTES-2017 (Techno – Vision 17), 20.01.2017 to 21.01.2017 at Government College of Engineering, Jalgaon, Distt. Jalgaon.
8. Session Chair for one of the technical session of National Conference on Advances in Construction Technology and Management at VNIT – Nagpur, 19 – 20 Feb. 2016.

30. Worked for MPSC/DTE/AICTE/UNIVERSITY

- i. Subject Expert in the selection committee at DTE office for the CAS Promotion for the post of Professor, letter- 4/ astha/CAS meeting/2013/347, dated 20.09.2013.
- ii. Subject Expert in the selection committee at MPSC office for the post of Lecturer in Civil Engineering, Government polytechnic, Maharashtra Polytechnic Teacher Service, Group – A, (Advt. 84/2013), letter-15(2)(28)/17842/VII, dated 05.06.2015
- iii. Chairman, Inspection committee DTE, for Physical Inspection of Atharva College of Engineering, Malad (w), Mumbai – 95. Letter-4/vkm/ts/technical-3/2015/1742, dated 12.06.2015.
- iv. Chairman, Inspection committee DTE, for Physical Inspection of Fr. Conceion Rodrigues College of Engineering, Fr. Agnel Asram, Mumbai – 50, Letter-4/vkm/ts/technical-3/2015/1742, dated 12.06.2015.
- v. Chairman, Inspection committee DTE, for Physical Inspection of Xavier Institute of Engineering, C/o Xavier Technical Institute, Mahim, Mumbai – 16. Letter-4/vkm/ts/technical-3/2015/1742, dated 12.06.2015.
- vi. Inspection committee Member at DTE office for scrutinizing the detailed proposals for increase in intake or starting additional branches in various Degree and Diploma colleges in Maharashtra. Letter-2/npc/npt/2015/267,25.02.2015.
- vii. Paper setter and Examiner for PET- March – 2015, conducted by University of Mumbai. Letter – No, Exam./Appt/PET/51/of 2015.
- viii. Paper setter and Examiner for PET- March – 2014, conducted by University of Mumbai. Letter – No, Exam./Appt/PET/58/of 2013. Date- 19.02.2014.
- ix. Physical Inspection committee member, Mumbai University for Extension of affiliation of Shivajirao Jondhale College of Engineering and Technology, Asangaon, Dist. Thane. Letter from University of Mumbai – PG/2/ICD/2013-14/2100 Date-06.03.2014.
- x. Physical Inspection committee member, Mumbai University for Extension of affiliation of Mahatma Education Society, Pillai HOC College of Engineering and Technology, Pillai HOC

Education Society Campus Rasayani, Dist. Raighad. Letter from University of Mumbai – PG/2/ICD/2013-14/2100 Date-06.03.2014.

xi. Physical Inspection committee member, Mumbai University for Extension of affiliation of Mandar Education Society, Rajaram shinde College of Engineering Pedhambe, Distt. Ratnagiri. Letter from University of Mumbai – PG/2/ICD/2013-14/2100 Date-06.03.2014.

xii. Inspection committee Member at DTE office for scrutinizing the detailed proposals as per the Complaint of Citizen Forum for Suncity in educational system, Thane. Letter – 2/ncg/(35296/13)2060, date.06.06.2013.

xiii. Physical Inspection committee member, Mumbai University for Continuation and Extension of affiliation of Fr. Conceicao Rodrigues Institute of Technology, Sector – 9 A, Vashi, Navi Mumbai – 03, Letter from University of Mumbai – PG/2/ICD/2014-15/1305, Date-18.10.2014.

xiv. Physical Inspection committee member, Mumbai University for Continuation and Extension of affiliation of Anjuman I Islam Kalsekar Technical Campus, New Panvel, Navi Mumbai – 06. Letter from University of Mumbai – PG/2/ICD/2014-15/1305, Date-18.10.2014.

xv. Executed Confidential Work of MPSC, letter 374(2)(2)/2013/11, date.06.08.2013.

xvi. Performance Review committee Member at BTE office for scrutinizing the detailed proposals of the candidates for Extension in service after retirement. Letter. Msbte/ka31/astha/review committee/2015/878, dated 11.03.2015.

xvi. Physical Inspection committee member for inspection of Indira Gandhi college of Engineering, Kopar Khairane, Navi Mumbai

xvii. Invitee Member for the meeting called by Fees Regulation Authority Higher and Technical Education for Finalizing and Approving the Fees of Engineering Colleges of Maharashtra State for the Year 2017-18.

xviii. Chairman, Local Inspection Committee for Affiliation to Dr. Babasaheb Ambedkar Technological University, Lonere, meeting on 10.02.2017 – 11.02.2017.

xix. University of Mumbai appointed as a VC nominee for the for the Interview of post of Principal in Bharti Vidyapeeth College of Architecture,

xx. University of Mumbai appointed as a VC nominee for the for the Interview of faculty positions in Sasmira's Institute of Management Studies and Research, Sasmira Marg, Worli, Mumbai - - 400 003,

Dr. Prashant P. Nagrale
Professor & Coordinator, QIP Center
CED, SPCE, Andheri (w), Mumbai -58