

**Photo:**

Name of Faculty : Dr (Mrs) Hema Kishor Munot  
Designation : Associate Professor, Applied Mechanics  
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**Career Objective:**

- To continue the Teaching and motivate students for R& D activities
- To encourage the students to work in industry and academia
- To focus on Research work in Civil Engineering
- To cater the basic needs of technological demand of rural population
- To motivate students to be an Entrepreneur

**Educational Qualifications:**

<b>Examination</b>	<b>School/College/ University</b>	<b>Board/University</b>	<b>Year of Passing</b>
S.S.C.	B.F.High School,Ahmednagar	S.S.C.BoardPune	March 1982
H.S.C.	Ahmednagar College , Ahmednagar	H.S.C.BoardPune	March 1984
B.E.(Civil)	C.O.E.Pune	Pune University	March 1988
M.E.(Civil) (Structures)	C.O.E.Pune	Pune University	May 2005
PhD	SVNIT,Surat	Gujrath University	May 2019

**EXPERIENCE:**

<b>Experience Type</b>	<b>Institute/ Company Name</b>	<b>Graduate/ Post Graduate Level</b>	<b>Designation</b>	<b>From</b>	<b>To</b>
Teaching	GCOEAwsari	Graduate Level	Assistant Professor in Applied Mechanics	1/8/23	Till to date
Teaching	GCOE Yavatmal	Graduate Level	Assistant Professor in Applied Mechanics,	12/8/21	31/07/2023
Teaching	C.O.E.P Pune	Graduate/ Post Graduate Level	Lecturer in Applied Mechanics (Assistant Professor in Applied Mechanics since June 2006)	26/10/99 1/8/2000	31/05/2000 11/08/2021
Industry	RachanaArchitects and Engineers,Pune	---	Civil Engineering Consultant	19/01/93	25/10/99
Teaching	Lecturer in Civil Engineering, P.D.V.V.P C.O.E.Ahmednagar	Graduate Level	Lecturer in Civil Engineering	2/01/89	18/01/93
<b>Total Experience: 35 Years , 1 Month</b>					

<b>PUBLICATIONS : 15</b>		
<b>Journals (International) : 05 (National) 02</b>		
<b>Conferences(National) : 05 (International): 03</b>		
<b>Research Papers-</b>		
<b>Title of Paper</b>	<b>Name of Journal/Book/Conference/ Symposium/ Seminar in which published</b>	<b>Year of Publication</b>
Maturity -A Non DestructiveTestingMethod Vinaykumar C.H, MrsHemaKMunot	National Symposium on NDT of concreteStructures2004( held at COEP,Pune	2004
CaseStudyofPrestressed Steel Structures ShaikhSalimM Mrs H.K.Munot	National Conference on Emerging Technology and Developments in Civil Engineering2007(heldat COE Amaravati	2007
Earthquake Resistant DesignandDetailingof RCC Structures MrsH.K.Munot ShaikhSalim M	NationalConference on EmergingTechnologies inCivilEngineering2008( held atPDVVP COE Ahmednagar )	2008
Properties of concrete with Metakaolin and fly ash as partial	International Journal of Earth Science and EngineeringISSN0974-	2011

replacement to cement Supria Nalawade Mrs H.K.Munot BalkrishnaDawari	5904,Volume 04No 06 SPL,October2011	
NonConventionalSustainable Ecofriendly multipurpose Geopolymeric paper blocks Saurabh Chandarana Mrs H.K.Munot Jayesh Charthal	Proceedings of International Conference on Advances in Mechanical Engineering May 2013	<b>2013</b>
Experimental study of reinforced geopolymeric paper blocks with different ways of placing fiber reinforcement Saurabh. Chandarana, Jayesh S.Charthal, Hema K Munot	International Journal of Advanced Research (October(31)issue, VOL 2 (2014) ).	<b>2014</b>
Performance comparison of Cold Formed members and Hot rolled members. Ashish Phadke&MrsH KMunot	SEC2014(IITDELHI)	<b>2014</b>
Effects of chloride ions on the corrosion resistance of conducting polypyrrole coated steel in simulated Concrete poresolution HemaMunot,PravinDeshpande, Chetankumar Modhera	PublishedinUGCapproved journal U.P.B. Sci. Bull., Series B, Vol. 79, Iss. 2, 2017ISSN1454-2331	<b>29-01-2013</b>
Conducting polypyrrole coated rebar in carbonated concrete pore solution: Electrochemical investigations” Hema Munot ,Pravin Deshpande, Chetankumar Modhera	M974_17 <i>PortugaliaeElectrochimica Acta</i>	<b>2015</b>
Cyclic polarisation studies: Effect of chloride ions on the corrosion resistance of steel bar in simulated concrete pore solution HemaMunot,Pravin Deshpande, Chetankumar Modhera	Posterpresentation in PuneUniversityatthe8 <sup>th</sup> international conference onAdvanced Materials Development and Performance(AMDP2017	<b>2017</b>
Electrochemical investigations on semi-conducting properties of the passive film on conducting polypyrrole coated low carbon steel in simulated concrete pore solution” HemaMunot,Pravin Deshpande, Chetankumar Modhera	<i>Portugaliae Electrochimica Acta</i> on	<b>2017</b>

Analytical Study of Mechanism of Concrete Cracking and Its Propagation Due to Corrosion of Reinforcement in RCC HemaMunot, A.M.Jadhav	Open Journal of Civil Engineering,2016,6,286-294 Published Online March 2016 in SciRes. <a href="http://www.scirp.org/journal/ojce">http://www.scirp.org/journal/ojce</a>	<b>2016</b>
Influence of Corrosion on Strength and Durability of RC Structure HemaMunot, Tushar Diyora,C.D.Modhera	International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) Vol2, Issue3, March2017 ISSN(Online)2456-1290	<b>2017</b>
Effect of concrete cover on crack width due to corrosion H.K.Munot,P.P.Deshpande, R.V.Patil	, Indian Conference on Applied Mechanics (INCAM)2017MNNIT Allahabad,5– 7 July 2017	<b>2017</b>
Effect of Corrosion on the Residual Strength of RC Column H.K.Munot, T.A.Diyora C.D.Modhera, R.V.Patil	Indian Conference on Applied Mechanics (INCAM)2017MNNIT Allahabad,5– 7 July 2017	<b>2017</b>
Tensile behavior of friction bolt connection with artificial and accelerated corrosion damage H.K. Munot Yugandhara a Warke, Suyog Ingale,VikasVDudi	7 <sup>TH</sup> InternationalCongress on Computational Mechanics and simulation (ICCMS 2019) [ICCMS19SD124809]	<b>2019</b>
Study of effect of Barite as substitution for aggregate and effect on properties of hardened concrete H.K. Munot,, Suyog Ingale,VikasVDudi	7 <sup>TH</sup> InternationalCongress on Computational Mechanics and simulation (ICCMS 2019) [ICCMS19SD124829]	<b>2019</b>

**Patent** : Application No. **1957/MUM/2014**  
**Title** : MATERIAL FOR CONSTRUCTION INDUSTRY  
**Date of acceptance** : **17 June 2014**  
**Valid upto** : 17 June 2034

<b>Workshop/Seminars/Training:</b>			
<b>Sr. No.</b>	<b>Workshop Title</b>	<b>Name of College</b>	<b>Duration and Dates</b>
1.	Practical Design of R.C Buildings (G+3)	Institute Of Structural Engineering ,Pune	18/06/1995-29/06/1995
2.	Developing Teaching Compitencies	NITTR Pune extension	20/12/2004-31/12/2004
3.	2.Faculty Development Programme Enterpreneurship and Networking	NITTR Pune extension	20/05/2005-31/05/2005
4.	Recent trends in Analytical instrumentation	C.O.E.P	12/6/06-23/06/06
5.	Essential Skills for Teachers and Analytical Skill	C.O.E.P	13/02/07-15/02/07
6.	Earthquake Resistant Design of RC buildings	Applied Mechanics Dept C.O.E.P	17/12/07-21/12/07
7.	General Research Methodology	NITTR Pune extension	19/01/09-23/01/09
8.	Technical Communication Skills	C.O.E.P	May 2011
9.	Latex for Technical Documentation	Instrumentation Dept C.O.E.P	12/06/12-16/06/12
10	Introduction to Research Methodologies	Conducted by IIT Bombay	25/06/12-04/07/12
11	Finite Elements in Engineering	Civil Dept C.O.E.P	09/07/12-13/07/12
12	Advances in Material Science and Technology	Applied Physics Dept,SVNIT	03/07/13-07/07/13
13	Corrosion and Surface Engineering	Metallurgy Dept C.O.E.P	03/01/14-08/01/14
14	Vibrations in Structures	Civil Dept C.O.E.P	14/07/14-18/07/14
15	Introduction to Structural Engineering	IIT Khargpur	30/11/2015 -9/01/2016

## Achievement:-

- 1) Runners up prize winner in Techno-craft Booth Project Competition 2015
- 2) prize winner for Guide of Excellent M.Tech project "Experimental evaluation of effect of concrete Cover on crack width of reinforced concrete structure due to corrosion" in Sept 2017
- 3) Alumni Distinguished Faculty Fellow scholarship in 2019

## Memberships of professional Organizations:

- 1 Member of Institution of Engineers
2. Fellow of Institution of Valuers
3. Life Member of Indian Society for Technical Education
4. Chartered Engineer
5. Life membership of ACI

## Other Activities:

### Conferences & workshops organized

- 1) Two day National Symposium on NDT of concrete Structures 2004 (8 th Feb-9<sup>th</sup> Feb 2004)
- 2) Two day National workshop on Modeling Techniques in Geotechnical Engineering (28 and 29 th March 2009)
- 3) One week National workshop on TEKLA software (30 th May -4 June 2019)

## List of M.E. Projects Guided:

Sr no	Year	Name of the student	Title of the thesis
1	2009-10	Supriya C. Rayjade	Study of Metakaolin with fly ash as partial replacement to cement in concrete
2	2009-10	Anant B Patil	Study of metakaolin as part replacement to cement in concrete
3	2012-13	Zarna H Barday	Non Linear Analysis of 3D Frames
4	2012-13	Yovraj A Kanade	Dynamic Evaluation of Lateral force resisting Systems for all buildings

5	2014-15	Dhiraj Ahiwale	Seismic response assessment of RC frame Building on sloping ground with open ground storey using pushover analysis
6	2014-15	Nikhil mbardekar	Analytical Study of Tsunami forces on structures
7	2015-16	Ajit Jadhav	Analytical Study of concrete cracking mechanism And propagation of cracks due to corrosion of reinforcement
8	2015-16	Mrigendra Manohar	Dynamic response of bridge superstructure to high speed trains
9	2015-16	Abdul Qadeery	Nonlinear analysis of multistory building with Steel plate shear wall
10	2015-16	Priyanka Kale	Analysis of rcc bridge under vertical ground Motion
11	2015-16	Ashish Fadake	Pre-engineered steel building study of design Analysis and testing of components of an industrial structures
12	2016-17	RahulPatil	Experimental evaluation of effect of concrete Cover on crack width of reinforced concrete structure due to corrosion
13	2016-17	Tushar Diyora	Experimental Investigation on influence of corroded stirrups on the residual strength of Reinforced concrete column
14	2017-18	Yugandhara Warke	Tensile behavior of friction bolt connection with artificial and accelerated corrosion damage
15	2018-19	Suyog Ingale	Study of effect of Barite as substitution for aggregate and effect on properties of hardened concrete
16	2018-19	VikasDudi	Effect of Topography on seismic analysis of long Span Arch Bridge.