

**Photo:**



**NAME : Mrs Hema Kishor Munot**

**PERMANENT ADDRESS : Flat no 102, Chitrakoot, B wing, 1065/A/1**

**Chaturshrungi Road Shivajinagar , Pune 411016.**

**DATE OF BIRTH : 10/07/1967**

**E-mail ID : hkm.civil@coep.ac.in**

**SPECIALIZATION : Concrete Technology, Structural Health Monitoring,  
Structural mechanics**

**EDUCATIONAL QUALIFICATIONS:**

<b>Examination</b>	<b>School/College/ University</b>	<b>Board/University</b>	<b>Date of Passing</b>	<b>Grade &amp; Percentage</b>
<b>S.S.C.</b>	B.F.High School,Ahmednagar	S.S.C.Board Pune	March 82	Distinction 87
<b>H.S.C.</b>	Ahmednagar College , Ahmednagar	H.S.C.Board Pune	March 84	Distinction 74.47
<b>B.E.(Civil)</b>	C.O.E.Pune	Pune University	March 88	First class 60.86
<b>M.E. (Civil) (Structures)</b>	C.O.E.Pune	Pune University	May 05	Higher Second class 55.57%

<b>Ph.D.</b>	SVNIT ,Surat	Gujrath University		
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**DISSERTATION TOPIC (M.E.):** Early age in place strength determination of concrete using Maturity concept.

**RESEARCH TOPIC (PhD)** “Electro-chemical studies on corrosion of Polypyrrole coated low carbon steel plates in simulated concrete pore solution”

**PUBLICATIONS:** 15  
**Journals (International):** 05  
**(National)** 02  
**Conferences (National):** 05  
**(International):** 03

#### Research Papers

S.No	Title of Paper	Name of Author(s)	Name of Journal/Conference	Pages
1	Maturity -A Non Destructive Testing Method	Vinaykumar C.H, Mrs Hema K Munot	National Symposium on NDT of concreteStructures2004 ( held at COEP,Pune )	60-63
2	Case Study of Prestressed Steel Structures	Shaikh Salim M Mrs H.K.Munot	National Conference on Emerging Technology and Developments in Civil Engineering2007 ( held at COE Amaravati )	75-82
3	Earthquake Resistant Design and Detailing of RCC Structures	Mrs H.K.Munot Shaikh Salim M	National Conference on Emerging Technologies in Civil Engineering 2008( held at PDVVP COE Ahmednagar )	174-190

4	Properties of concrete with Metakaolin and fly ash as partial replacement to cement	Supria Nalawade Mrs H.K.Munot Balkrishna Dawari	International Journal of Earth Science and Engineering ISSN 0974-5904, Volume 04No 06 SPL ,October 2011	1059
5	Non Conventional Sustainable Ecofriendly multipurpose Geopolymeric paper blocks	Saurabh Chandarana Mrs H.K.Munot Jayesh Charthal	Proceedings of International Conference on Advances in Mechanical Engineering May 2013	S11/s 18
6	Experimental study of reinforced geopolymeric paper blocks with different ways of placing fiber reinforcement	Saurabh Y. Chandarana, Jayesh S. Charthal, Hema K Munot	International Journal of Advanced Research ( October (31) issue, VOL 2 (2014) ).	
7	Performance comparison of Cold Formed members and Hot rolled members.	Ashish Phadke & Mrs H K Munot	SEC 2014 ( IIT DELHI )	
8	Effects of chloride ions on the corrosion resistance of conducting polypyrrole coated steel in simulated concrete pore solution	Hema Munot, Pravin Deshpande, Chetankumar Modhera	Published inUGC approved journal U.P.B. Sci. Bull., Series B, Vol. 79, Iss. 2, 2017 ISSN 1454-2331	
9	Conducting polypyrrole coated rebar in carbonated concrete pore solution: Electro chemical investigations” M974_17	Hema Munot, Pravin Deshpande, Chetankumar Modhera	<i>Portugaliae Electrochimica Acta</i>	
10	Cyclic polarisation studies : Effect of chloride ions on the corrosion resistance of steel bar in simulated concrete pore solution	Hema Munot, Pravin Deshpande, Chetankumar Modhera	Poster presentation in Pune University at the 8 <sup>th</sup> international conference on Advanced Materials Development and Performance (AMDP 2017 ) on 14 th July2017	
11	Electrochemical investigations on semi-conducting properties of the	Hema Munot, Pravin Deshpande, Chetankumar	Submitted to <i>Portugaliae Electrochimica Acta</i> on 23/06/2017. Published on	

	passive film on conducting polypyrrole coated low carbon steel in simulated concrete pore solution” M987-17	Modhera	20/12/2017	
12	Analytical Study of Mechanism of Concrete Cracking and Its Propagation Due to Corrosion of Reinforcement in RCC	Hema Munot, 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>	
13	Influence of Corrosion on Strength and Durability of RC Structure	Hema Munot, Tushar Diyora, C.D. Modhera	International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE) Vol 2, Issue 3, March 2017 ISSN (Online) 2456-1290	
14	Effect of concrete cover on crack width due to corrosion	, H.K.Munot, P.P.Deshpande, R.V.Patil	<i>Indian Conference on Applied Mechanics (INCAM) 2017 MNNIT Allahabad, 5– 7 July 2017</i>	
15	Effect of Corrosion on the Residual Strength of RC Column	, H.K.Munot, T.A.Diyora, C.D.Modhera, R.V.Patil	<i>Indian Conference on Applied Mechanics (INCAM) 2017 MNNIT Allahabad, 5– 7 July 2017</i>	
16	Tensile behavior of friction bolt connection with artificial and accelerated corrosion damage	H.K. Munot Yugandhara a Warke, Suyog Ingale, Vikas V Dudi	<i>7<sup>TH</sup> International Congress on Computational Mechanics and simulation (ICCMS 2019) [ICCMS19SD124809]</i>	
17	Study of effect of Barite as substitution for aggregate and effect on properties of hardened concrete	H.K. Munot,, Suyog Ingale, Vikas V Dudi	<i>7<sup>TH</sup> International Congress on Computational Mechanics and simulation (ICCMS 2019) [ICCMS19SD124829]</i>	

**Patent :--** Application No. **1957/MUM/2014**

Title: **MATERIAL FOR CONSTRUCTION INDUSTRY**

Date of Filing: **17 June 2014**

**EXPERIENCE:**

No.	Designation, Name & address of the employer	Period		Year Month	
		From	To		
1	Lecturer in Civil engineering, Principal, P.D.V.V.P C.O.E.Ahmednagar	2/01/89	18/01/93	4	0
2	Rachana Architects and Engineers,Pune	19/01/93	25/10/99	6	10
3	Lecturer in Applied Mechanics Director,C.O.E.P Pune (Assistant Professor in Applied Mechanics since June 2006)	26/10/99 1/8/2000	31/05/2000 11/08/2021	00 21	7 0.33
4	Assistant Professor in Applied Mechanics,COE Yavatmal	12/8/21	Till to date		11.33

**Total Experience: 33 Y 4.66M****SHORT TERM COURSES:**

- 1 Developing Teaching Competencies  
( organized byNITTR Pune extension ) (20/12/2004-31/12/2004 )
2. Faculty Development Programme Entrepreneurship and Networking  
( organized byNITTR Pune extension ) (20/05/2005-31/05/2005 )
- 3 Recent trends in Analytical instrumentation  
( organized by C.O.E.P ) ( 12/6/06 -23/06/06 )
4. Earthquake Resistant Design of RC buildings  
( organized by Applied Mechanics Dept C.O.E.P ) ( 17/12/07- 21/12/07 )
- 5.General Research Methodology  
(organized byNITTR Pune extension) ( 19/01/09-23/01/09 )
- 6.Latex for Technical Documentation

( organized by Instrumentation Dept C.O.E.P ) ( 12/06/12- 16/06/12 )

7.Finite Elements in Engineering

( organized by Civil Dept C.O.E.P ) ( 09/07/12- 13/07/12 )

8.Introduction to Research Methodologies

( Conducted by IIT Bombay ) ( 25/06/12- 04/07/12 )

9. Corrosion and Surface Engineering

( organized by Metallurgy Dept C.O.E.P ) ( 03/01/14- 08/01/14 )

10.

**Memberships of professional organisations:**

1 Member of Institution of Engineers

2. Fellow of Institution of Valuers

3.Indian Society for Technical Education

4.Chartered Engineer

Conferances & workshops organised

1.Two day National workshop on Modeling Techniques in Geotechnical Engineering( 28 and 29 th March 2009

**Subjects taught:**

Sr No	Class	Subject
1	F.Y.B.Tech	Engineering Mechanics
2	S.Y.B.Tech	Solid Mechanics, Strength of Materials, Concrete Technology
3	T Y.B.Tech	S.D.D (I) ---Practicals, S.D.D (II) ---Practicals Advanced Mechanics of Materials
4	B Tech	Concrete Composite. And Precast .Concrete
		Fiber Reinforced Cement Composites,
5	MTech ( Str )	Advanced Solid Mechanics, Lab practice I and III

**LIST OF M.E. PROJECTS GUIDED:**

<b>Sr no</b>	<b>Year</b>	<b>Name of the student</b>	<b>Title of the thesis</b>
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 3 D Frames
4	2012-13	Yovraj A Kanade	Dynamic Evaluation of Lateral force resisting systems for tall 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 Ambardekar	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 highspeed 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	Aashish Fadake	Pre-engineered steel building study of design analysis and testing of components of an industrial structures

12	2016-17	Rahul Patil	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	<i>Yugandhara Warke</i>	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	Vikas Dudi	Effect of Topography on seismic analysis of long span Arch Bridge.