

CURRICULUM VITAE

GENERAL

- Full Name : **Dr. M. BEENA MOL**
- Designation : Assistant Professor,
Department of Civil Engineering,
LBS College of Engineering, Kasaragod,
(A Govt. of Kerala undertaking).
- Date of Birth : 04-08-1981.
- Nationality : Indian
- Mailing Address : Cool Cottage, Kallupalam,
Attoor Post, Kanyakumari District,
Tamil Nadu – 629 177.
Ph : +91 9578930932
Ph : +91 8903482741
E-mail: beena.civil@gmail.com , beenamol@lbscek.ac.in
- Career Goals : To develop solutions with meaningful impact to real world problems in my areas of research interest and to be a part of research based engineering education
- Current areas of research interest : **1. Structural System Identification**
2. Soft Computing Applications in Civil Engineering
3. Seismic Analysis using Wavelet and EMD Transformations
4. Health Monitoring of Structures.



QUALIFICATIONS

EDUCATIONAL QUALIFICATIONS

Degree	Branch / Specialisation	Marks / Class	Year of Passing	Institution where Studied	University / Board
Ph.D.	Civil Engineering (2011110107)	NA	Nov 2014	Mepco Schlenk Engg College, Sivakasi	Anna University
M.E.	Structural Engineering (70903413004)	81% First Class with Distinction (7 th Rank)	June 2005	Institute of Road and Transport Tech, Erode	Anna University

B.E.	Civil Engineering (9927A0120)	80.04% First Class	April 2003	Institute of Road and Transport Tech, Erode	Bharatiar University
+2	Group I	85%	March 1999	Christuraja Matric and HSS, Marthandam	State Board
SSLC	General	80.36%	April 1997	Sacred Heart Marticulation School, Padanthalumoodu	Matriculation Board

TITLES OF THESIS WORK

Ph.D. Wavelet Based Seismic Analysis of Structures

M.E. Experimental Studies on Corrosion Reduction of the Rebars in Reinforced Concrete Slabs using Cathodic Protection Method

B.E. Identification of Causes and their Treatment Measures for Defects in Bituminous Surfacing

PROFESSIONAL / RESEARCH/ INDUSTRIAL EXPERIENCE

Position Held	Institution / Industry	Period	Nature of Work	Total Experience
Assistant Professor	LBS College of Engineering, Kasaragod. (A Government of Kerala Undertaking)	05/02/2018 – Till date	Teaching	3Y 0M 0D
Associate Professor	Norul Islam University, Kumaracoil,	01/03/2016 – 02/02/2018	Teaching, Research	1Y 11M 9D
Associate Professor	Narayanaguru College of Engg, Manjalumoodu	02/01/2014 – 13/05/2015	Teaching, Research, Department Administration	1Y 4M 11D
Assistant Professor	St. Xavier's Catholic College of Engg, Nagercoil	03/09/2009 – 11/12/2013	Teaching, Research, PG Incharge for Constn Engg and Management	4Y 3M 8D
Project Associate	Research and Development, IIT Kanpur	29/01/2007 – 28/01/2008	Research	1Y 0M 0D

Lecturer	St. Xavier's Catholic College of Engg, Nagercoil	04/07/2005 – 07/12/2005	Teaching	0Y 5M 3D
Total Experience				12Years

JOURNAL REVIEWER

Signal Processing, Elsevier
 Digital Signal Processing, Elsevier
 Earthquake Engineering and Engineering Vibrations, Springerlink
 Civil Engineering – Periodica Polytechnica
 Research of Geographic Structure and Earthquake
 Journal of Biomedical Science and Engineering
 Applied Mathematical Modelling, Elsevier

HONOURS / AWARDS RECEIVED / ACHIEVEMENTS

- 1. Chaired Civil Engineering session in the International Conference on Recent Advancements in Engineering and Technology organized by LBS College of Engineering (A Government of Kerala Undertaking), ICORETECH'18, India, 18th & 19th December 2018**
- 2. Advisory Committee member for the National Conference on Recent Trends in Energy Efficient Structures, CONSTRUCT'17, Organised by the Civil Engineering Department of St. Xavier's Catholic College of Engineering on 30th & 31st March, 2017.**
- 3. Member of the interview panel for the selection of research scholars in civil engineering Noorul Islam university on 14th July 2016.**
- 4. Approved Supervisor for guiding Ph.D and MS(By Research) Scholars in Faculty of Civil Engineering of Noorul Islam University**
- 5. Board of Studies and Syllabus Committee member of Noorul Islam University in Civil Engineering Department**
- 6. Chaired Civil Engineering session in the International Conference on Recent Engineering Advances and Trends, organized by Pankajakasthuri College of Engineering and Technology, INCREAT'16, India, 18th March 2016**
- 7. Advisory Committee member for the National Conference on Cost Efficient and Earthquake Resistant Structures, CONSTRUCT'15, Organised by the Civil Engineering Department of St. Xavier's Catholic College of Engineering on 26th & 27th March, 2015.**
- 8. Chaired a session in the International Conference on Engineering and Management, organized by Narayanaguru College of Engineering, India, in association with IETE, Trivandrum on 17th & 18th March 2015**

9. **Technical Committee member** for the **National Conference on Recent Trends in Civil Engineering, CONSTRUCT 2012**, Organised by the **Civil Engineering Department of St. Xavier's Catholic College of Engineering** on **30th March, 2012**
10. **Seventh Rank Holder** in **M.E. Structural Engineering** among all affiliated Institutions under **Anna University Chennai** in the year **2005**
11. **Tamil Nadu State Council for Science and Technology Sponsorship** was granted under **Students Project Scheme** for the B.E project titled 'Identification of Causes and their Treatment measures for Defects in Bituminous Surfacing' during the **academic year 2002-2003**
12. Produced **cent percent result** in the subject '**Repair and Rehabilitation of Structures**' in the Anna University Examinations **April 2010**
13. Produced **cent percent result** in the subject '**Computer Applications in Construction Engineering and Planning**' in the Anna University Examinations **April 2010**
14. Produced **cent percent result** in the subject '**Prefabricated Structures**' in the Anna University Examinations **April 2010**

PUBLICATIONS

INTERNATIONAL JOURNALS

No	Article Details	Scopus/ Impact Factor	Citations
1	Beena Mol , Mohanalin, Prabavathy, Jordina and Dominic Piug, A Novel Wavelet Seismic De-noising Method using Type II Fuzzy, Applied Soft Computing (Elsevier), Vol 48, 2016, pp: 507 - 521 http://dx.doi.org/10.1016/j.asoc.2016.06.024	Yes/ 3.907	3
2	Beena Mol , Prabavathy and Mohanalin, Fuzzy Threshold based Wavelet Processing of Random Time Series and Highly Noisy Accelerograms, Asian Journal of Civil Engineering (BHRC), Vol 17, No.8 (2016), pp: 1131 – 1150. file:///sysroot/home/beenamol/Downloads/103820160807.pdf	Yes	
3	Prinza, Rajeesh, Jordina, Beena Mol , Mohanalin, Domenec Piug, Improving the Performance of Emperical Mode Decomposition via Tsallis Entropy, Bio-Medical Materials and Engineering, Vol 29, Issue 05, 20158 pp: 551 – 566.	Yes/ 0.872	
4	Prinza, Rajeesh, Jordina, Beena Mol , Mohanalin, Domenec Piug, A novel Fuzzy Entropy Threshold based on a Complex Wavelet Denoising Technique to Diagnose Alzheimer Disease, <i>Accepted for Publication</i> , IET Healthcare Technology Letters, 2016, http://digital-library.theiet.org/content/journals/10.1049/htl.2016.0022;jsessionid=149j1p1x360yn.x-iet-live-01	Yes	

5	Torrents-Barrena J, Lazer Prinza, Mohandhas Beena Mol , Rathnam Mohanalin Raja and Puig D, Complex wavelet algorithm for computer-aided diagnosis of Alzheimer disease, IET, Electronic Letters, Vol 5, Issue 20, 2015, pp: 1566 – 1568.	Yes/ 1.232	
6	Beena Mol , Prabavathy and Mohanalin, A Robust Rule based Denoising Scheme using Wavelets, Journal of Medical Imaging and Health Informatics, Vol. 4, No.4, 2014, pp. 1-12.	Yes / 0.549	4
7	Mohanalin and Beena Mol , A new Wavelet Algorithm to Enhance and Detect Microcalcifications, Signal Processing, 2014	Yes / 3.470	11
8	Beena Mol , Prabavathy and Mohanalin, Wavelet based De-noising of Contaminated Strong Ground Signals using Bayes Technique, Disaster Advances, Vol. 7, No.2, 2014, pp. 9 -17	Yes	
9	Prinza, Mohanalin, Vinitha Joshy and Beena Mol , Denoising Performance of Complex Wavelet Transform with Shannon Entropy and its impact an AD EEG Classification using Neural Network, Journal of Medical Imaging and Health Informatics, 2014	Yes/ 0.549	5
10	Beena Mol , Prabavathy and Mohanalin, Wavelet based Noise Corrections of Strong Ground Motion Accelerograms: An Application to Earthquake Discrete Time Series Data Recorded from the 2011 Japan Earthquake, Research in Civil and Environmental Engineering, Vol 1, 2013, pp: 92 -112	No	3
11	Beena Mol , Prabavathy and Mohanalin, Wavelet based Seismic Signal Denoising using Shannon and Tsallis Entropy, Computers and Mathematics with Applications, Vol 64, No. 11, 2012, pp: 3580– 3593	Yes/ 1.860	48
12	Mohanalin, Beena Mol , Prem Kumar Kalra and Nirmal Kumar, An Automatic Image Registration Scheme using Tsallis Entropy, Biomedical Signal Processing and Control, Vol 5, 2010, pp: 328 – 335.	Yes / 2.783	18
13	Mohanalin, Beena Mol , Prem Kumar Kalra and Nirmal Kumar, A Novel Automatic Microcalcification Detection Technique using Tsallis Entropy and a Type II Fuzzy Index, Computers and Mathematics with Applications, Vol 60, 2010, pp: 2426 – 2432.	Yes/ 1.860	49
14	Beena Mol , Prabavathy and Mohanalin, A Novel Wavelet based Relative Displacement Analysis of Structure Subjected to Seismic Base Excitation, Disaster Advances, Vol. 7, No.9, 2014, pp. 1 -12	Yes	
15	Beena Mol , Prabavathy and Mohanalin, Wavelet based Dynamic Deformation Time History Response Analysis of Structures subjected to Earthquake Excitations, Research in Civil and Environmental	No	

Engineering, Vol 2, No.1, 2014, pp: 45 -54.		
Total	17.082	141

INTERNATIONAL CONFERENCES / SYMPOSIA

1. **Beena Mol**, Prabavathy and Mohanalin, A Review on the Applications of Wavelet Transforms in Structural Engineering, International Conference on Futuristic Innovations and Developments in Civil Engineering, Mepco Schlenk Engineering College, April 18 – 20, 2013.

NATIONAL CONFERENCES / SYMPOSIA

1. **Beena Mol**, Wavelet based Detection of the Arrival of P-waves, Mepco Schlenk Engineering College, Sivakasi, May 30, 2014
2. **Beena Mol**, Processing of Strong Ground Motion Accelerogram, Mepco Schlenk Engineering College, Sivakasi, Dec 12, 2012.
3. Shaheel C and **M. Beena Mol**, Time Overrun and Cost Effectiveness in the Construction Industry.
4. Anas K and **M. Beena Mol**, Work Flow based Resource Allocation in Construction Projects.
5. A. Ilanthalir and **M. Beena Mol**, Experimental Study on the use of rubber seed in concrete in lieu of fine and coarse aggregate.
6. **Beena Mol**, Experimental Studies on the Corrosion Reduction of Rebars in Reinforced Concrete Slabs using Cathodic Protection Method, A National Seminar on Recent Trends in Structural Engineering, Institute of Road and Transport Technology, Erode, 9 – 10 May 2005.
7. **Beena Mol** and S. Anitha, Experimental Investigation of Materials, Pondicherry Engineering College, A National Level Technical Symposium, EDIFICE 2003.
8. **Beena Mol** and S. Anitha, Experimental Investigation of Materials – Repair and Rehabilitation of Rigid Pavements, PSG College of Technology, A National Symposium on Science and Technology, TECHFIESTA 2003.
9. **Beena Mol** and S. Anitha, Experimental Investigation of Materials, Rajagiri School of Engineering and Technology, A National Level Technical Symposium, ABHIYANTHRIKI 2003.
10. **Beena Mol** and S. Anitha, Repair and Rehabilitation of Rigid Pavements, Bharat Institute of Science and Technology, A National Level Technical Symposium, CIVILINIUM 2003.
11. **Beena Mol** and S. Anitha, Application of Artificial Neural Network in Transportation Engineering: A Case Study, Periyar Maniammai College of Technology or men, A National Level Technical Symposium, FOCALPS 2003.
12. **M.Beena Mol**, S.Anita, Artificial Neural Network and their applications in Civil Engineering, BUILTEC 2003 held at Thiagarajar College of Engineering, Madurai, India, 1st March 2003
13. **M.Beena Mol**, S.Anita, Application of SIFCON in Reinforced Concrete Pavements, CEANS 2002 held at Kongu Engineering College, Perundurai, Erode, India, 30-31 December 2002

14. **M.Beena Mol**, S.Anita, An Experimental Study on the application of SIFCON in Reinforced Concrete Pavements, LANDMARK 2003 held at VLB Janakiammal College of Engineering and Technology, Coimbatore, India, 24th January 2003
15. **M.Beena Mol**, S.Anita, A Comparative Study on the Application of Innovative Materials in Reinforced Concrete Pavements, CLASSY CIVILOSIMUM 2003 held at P.S.N.A. College of Engineering and Technology, Dindigul, India, 14-15 February 2003
16. **M.Beena Mol**, S.Anita, Application of GIS in Civil Engineering, CEA Fest 2003 held at Indian Institute of Technology, Madras, India, 20-22 March 2003
17. **M.Beena Mol**, Identification of Causes and their Treatment Measures for Defects in Bituminous Surfacing, Organised by Tamilnadu State Council for Science and Technology held at Muthyammal College of Science and Technology, Thanjavur, India, 19-20 June 2003

INVITED LECTURES

S.No	Title	Venue and Date
1	Wavelet based Analysis of Strong Ground Motion	AICTE Sponcered FDP on EQRS, Mepco Schlenk Engineering College, Sivakasi, May 28, 2012.
2	Introduction to MatLAB	Workshop on Neural Network Applications in Civil Engineerig: A Matlab Approach, SXCCE, Oct 18, 2013
3	Regression Analysis Applications in Civil Engineering – A Matlab approach	Workshop Organised by Reach Association, Department of Civil Engineering, SXCCE, April 01, 2015
4	Neural Network solutions and its Applications using Matlab tools for Electrical Engineering Problems	Workshop Organised by Department of Electrical and Electronics Engineering, LMCST, Sep 27, 2015

WORKSHOPS / TRAINING / SHORT COURSES ATTENDED

1. Design and Engineering, KTU Sponsored Short Term Training Programme, Sarabhai Institute of Technology, Trivandrum, December 03 - 07, 2018
2. Sustainable Construction Materials, KTU Sponsored Short Term Training Programme, College of Engineering Trivandrum, July 16 – 20, 2018
3. R&D Series : Soft Computing Tools in Signal and Image Processing, St. Xavier's Catholic College of Engineering, May 21 – 23, 2012
4. Akash for Education, MHRD and IIT Mumbai, St. Xavier's Catholic College of Engineering, 10 & 11 Nov 2012
5. Use of Construction Chemicals and Techniques for Rehabilitation Works, Dept of Civil Engineering and Erode District Civil Engineering Association, IRTT, 19,20 Feb 2004

6. Proposed Revision of Code of Practice for General Construction in Steel, Kongu Engineering College and Institute for Steel Development and Growth, Kongu Engineering College, 22, 24, Apr 2004
7. Repair and Rehabilitation of Structures, Dept of Civil Engineering and Erode District Civil Engineering Association, IRTT, 24 Dec 2000
8. Fourth Annual Convention of ISTE Student Chapters and National Seminar on Harnessing Human Resources for the Development of India: Problems, Challenges and Opportunities, Kongu Engineering College, 28 and 29 July 2001
9. Technical Teaching Skills, St. Xavier's Catholic College of Engineering Entrepreneurship Cell, St. Xavier's Catholic College of Engineering, 29 Sep 2009
10. SWIFT ELDER Course, NIIT Marthandam, 28 June – 14 Aug 2000
11. AUTOCAD 2000, APTECH Marthandam, Dec 2001
12. Visual Basic, APTECH Marthandam, Oct 2002
13. Inplant Training, PWD Nagercoil, Tamil Nadu, India, Nov 2000
14. Inplant Training, Acruthi Architects, Bangalore, India, April 2004